Aurora's pg college
Moosarambagh
Mca department

MCA III YR I SEM

OOSD LAB MANUALS

OBJECTIVE:

To develop a mini-project following the 12 exercises listed below.

1. To develop a problem statement.
2. Develop an IEEE standard SRS document. Also develop risk management and project plan (Gantt chart).
3. Identify Use Cases and develop the Use Case model.
4. Identify the business activities and develop an UML Activity diagram.
5. Identity the conceptual classes and develop a domain model with UML Class diagram.
6. Using the identified scenarios find the interaction between objects and represent them using UML Interaction diagrams.
7. Draw the State Chart diagram.
8. Identify the User Interface, Domain objects, and Technical services. Draw the partial layered, logical architecture diagram with UML package diagram notation.
9. Implement the Technical services layer.
10. Implement the Domain objects layer.
11. Implement the User Interface layer.
12. Draw Component and Deployment diagrams.

Suggested domains for Mini-project.

1. Passport automation system.
2. Book bank
3. Exam Registration
4. Stock maintenance system.
5. Online course reservation system
6. E-ticketing
7. Software personnel management system
8. Credit card processing
9. e-book management system
10. Recruitment system
11. Foreign trading system
12. Conference Management System
13. BPO Management System

EXNO: 1a PASSPORT AUTOMATION SYSTEM

AIM

To develop the Passport Automation System using rational rose tools, visual basic and MS access.

PROBLEM ANALYSIS AND PROJECT PLAN

To simplify the process of applying passport, software has been created by designing through rational rose tool, using visual basic as a front end and Microsoft access as a back end. Initially the applicant login the passport automation system and submits his details. These details are stored in the database and verification process done by the passport administrator, regional administrator and police the passport is issued to the applicant.

PROBLEM STATEMENT

1. Passport Automation System is used in the effective dispatch of passport to all of the applicants. This system adopts a comprehensive approach to minimize the manual work and schedule resources, time in a cogent manner.

2. The core of the system is to get the online registration form (with details such as name, address etc.,) filled by the applicant whose testament is verified for its genuineness by the Passport Automation System with respect to the already existing information in the database.

3. This forms the first and foremost step in the processing of passport application. After the first round of verification done by the system, the information is in turn forwarded to the regional administrator's (Ministry of External Affairs) office.

4. The application is then processed manually based on the report given by the system, and any forfeiting identified can make the applicant liable to penalty as per the law.

5. The system forwards the necessary details to the police for its separate verification whose report is then presented to the administrator. After all the necessary criteria have been met, the original information is added to the database and the passport is sent to the applicant.

SOFTWARE REQUIREMENTS SPECIFICATION

1.0 INTRODUCTION

Passport Automation System is an interface between the Applicant and the Authority responsible for the Issue of Passport. It aims at improving the efficiency in the Issue of Passport and reduces the complexities involved in it to the maximum possible extent.

1.1 PURPOSE

If the entire process of 'Issue of Passport' is done in a manual manner then it would take several months for the passport to reach the applicant. Considering the fact that the number of applicants for passport is increasing every year, an Automated System becomes essential to meet the demand. So this system uses several programming and database techniques to elucidate the work involved in this process. As this is a matter of National Security, the system has been carefully verified and validated in order to satisfy it.

1.2 SCOPE

The System provides an online interface to the user where they can fill in their personal details. The authority concerned with the issue of passport can use this system to reduce his workload and process the application in a speedy manner.Provide a communication platform between the applicant and the administrator Transfer of data between the Passport Issuing Authority and the Local Police for verification of applicant's information.

1.3 DEFINITIONS, ACRONYMS AND THE ABBREVIATIONS

1. Administrator - Refers to the super user who is the Central Authority who has been vested with the privilege to manage the entire system. It can be any higher official in the Regional Passport Office of Ministry of External Affairs.
2. Applicant - One who wishes to obtain the Passport.
3. PAS - Refers to this Passport Automation System.

1.4 REFERENCES IEEE Software Requirement Specification format.

1.5 TECHNOLOGIES TO BE USED • Microsoft Visual Basic 6.0

1.6 TOOLS TO BE USED • Rational Rose tool (for developing UML Patterns)

1.7 OVERVIEW

SRS includes two sections overall description and specific requirements - Overall description will describe major role of the system components and inter-connections. Specific requirements will describe roles & functions of the actors.

2.0 OVERALL DESCRIPTION

2.1 PRODUCT PERSPECTIVE

The PAS acts as an interface between the 'applicant' and the 'administrator'. This system tries to make the interface as simple as possible and at the same time not risking the security of data stored in. This minimizes the time duration in which the user receives the passport.

2.2 SOFTWARE INTERFACE

1. **Front End Client -** The applicant and Administrator online interface is built using Microsoft Visual Basic 6.0.
2. **Back End** – MS Access database

2.3 HARDWARE INTERFACE

The server is directly connected to the client systems. The client systems have access to the database in the server.

2.4 SYSTEM FUNCTIONS

1. Secure Registration of information by the Applicants.
2. Message box for Passport Application Status Display by the Administrator.
3. Administrator can generate reports from the information and is the only authorized personnel to add the eligible application information to the database.

2.5 USER CHARACTERISTICS

1. Applicant - They are the people who desires to obtain the passport and submit the information to the database.
2. Administrator - He has the certain privileges to add the passport status and to approve the issue of passport. He may contain a group of persons under him to verify the documents and give suggestion whether or not to approve the dispatch of passport.
3. Police - He is the person who upon receiving intimation from the PAS, perform a personal verification of the applicant and see if he has any criminal case against him before or at present. He has been vetoed with the power to decline an application by suggesting it to the Administrator if he finds any discrepancy with the applicant. He communicates via this PAS.

2.6 CONSTRAINTS

1. The applicants require a computer to submit their information.
2. Although the security is given high importance, there is always a chance of intrusion in the web world which requires constant monitoring.
3. The user has to be careful while submitting the information. Much care is required.

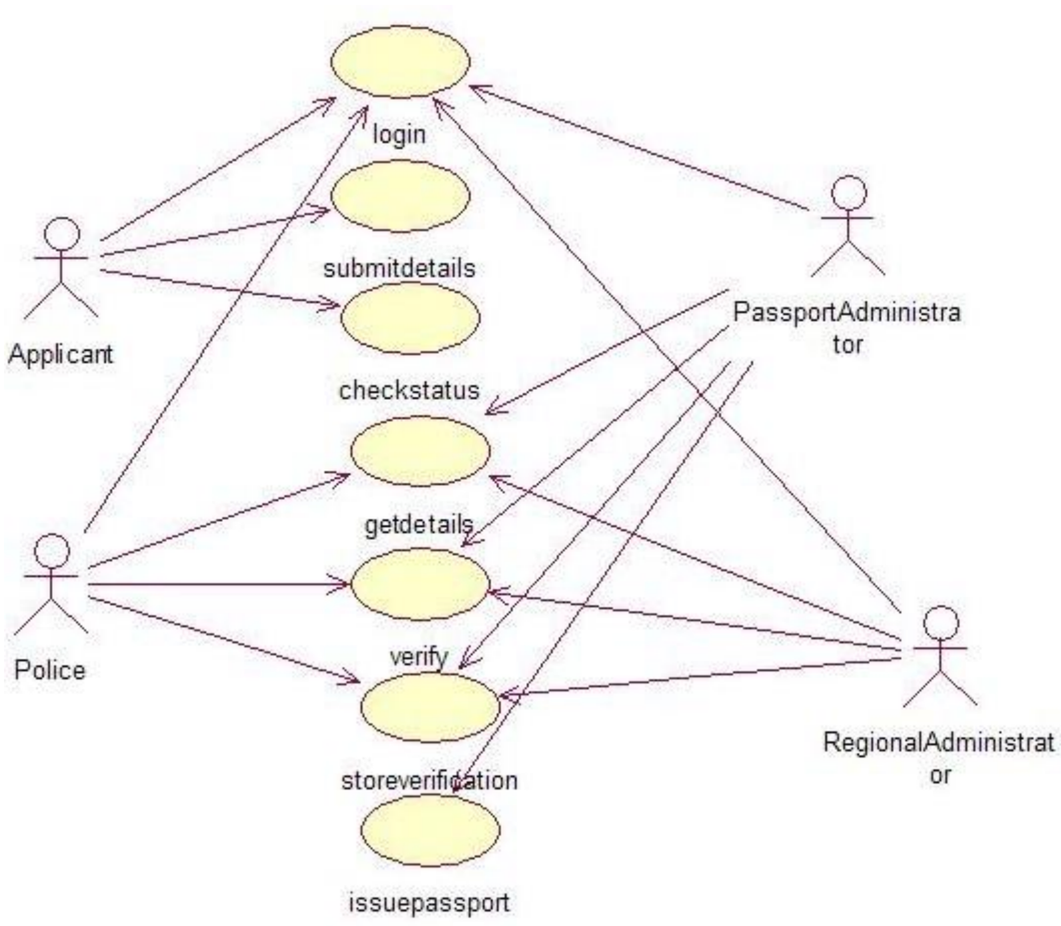
2.7 ASSUMPTIONS AND DEPENDENCIES

1. The Applicants and Administrator must have basic knowledge of computers and English Language.
2. The applicants may be required to scan the documents and send.

UML DIAGRAMS

Sno	**UML DIAGRAMS**
1	Use Case diagram
2	Class diagram
3	Interaction diagram
4	Sequence diagram
5	Collaboration diagram
6	State Chart diagram

7	Activity diagram
8	Component diagram
9	Deployment diagram
10	Package diagram



DOCUMENTATION OF USECASE DIAGRAM

a. The actors in use case diagram are Applicant, regional administrator, database, passport Administrator, Police.

b. The use cases are Login, givedetails, logout, collectdetails, verification, issue.

c. The actors use the use case are denoted by the arrow

d. The login use case checks the username and password for applicant, regional administrator, passport administrator and police.

e. The submit details use case is used by the applicant for submitting his details

f. The check status use case is used by the applicant for checking the status of the application process.

g. The get details, verify and store verification use case is used by passport administrator, regional administrator, and police.

h. The details use case is used for getting the details form the database for verification

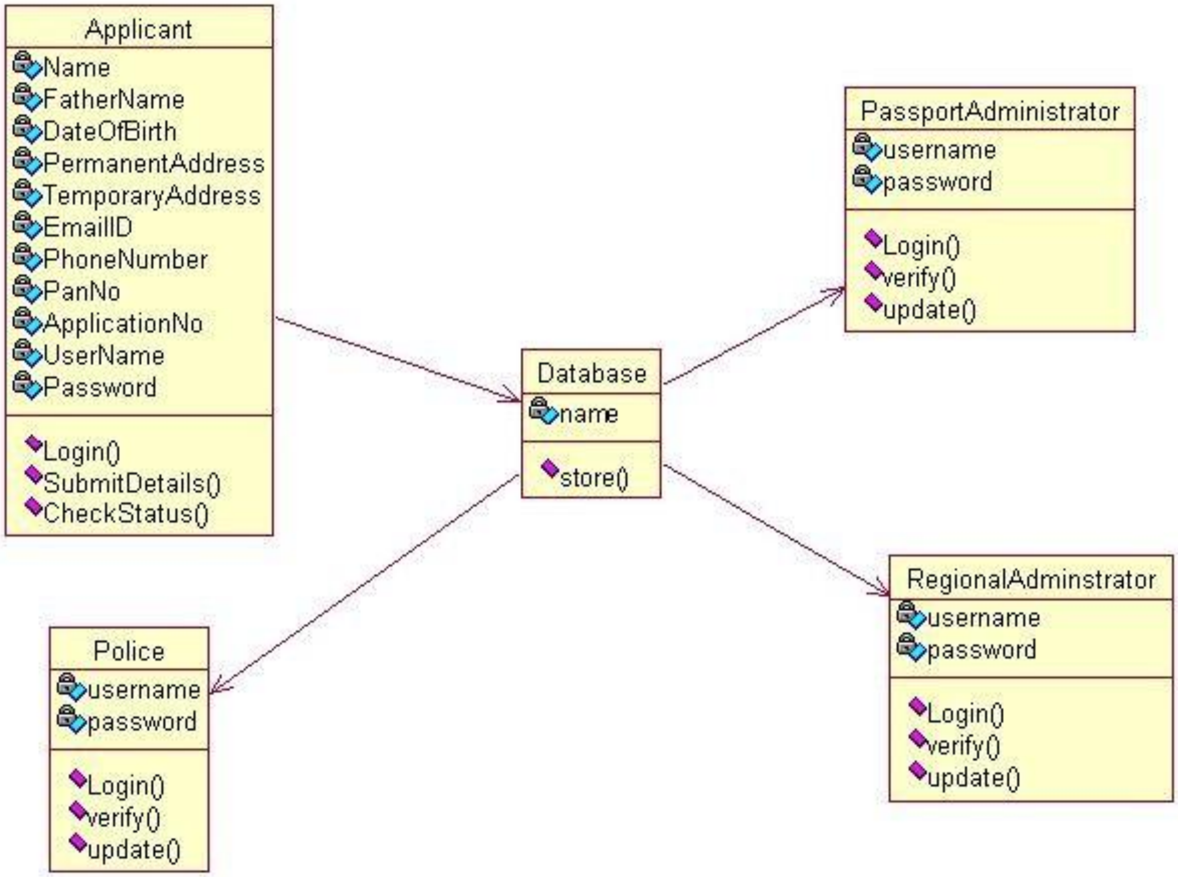
2. The verify use case is used for verifying the details by comparing the data in the database.

    a. The store verification use case is to update the data in the database

    b. And finally the issue passport use case is used by the passport administrator for issuing passport who’s application verified successfully by all the actor .

CLASSDIAGRAM

A class is drawn as rectangle box with three compartments or components separated by horizontal lines. The top compartment holds the class name and middle compartment holds the attribute and bottom compartment holds list of operations.



DOCUMENTATION OF CLASS DIAGRAM

a. **APPLICANT-**The applicant has attribute such as name and password and operations are login, givedetails and logout. The applicant login and fill the details that are required for applying the passport .After applying the person can view the status of the passport verification process

b. **THE DATABASE-**The database has attributed such as name and operation is store. The purpose is to store the data.

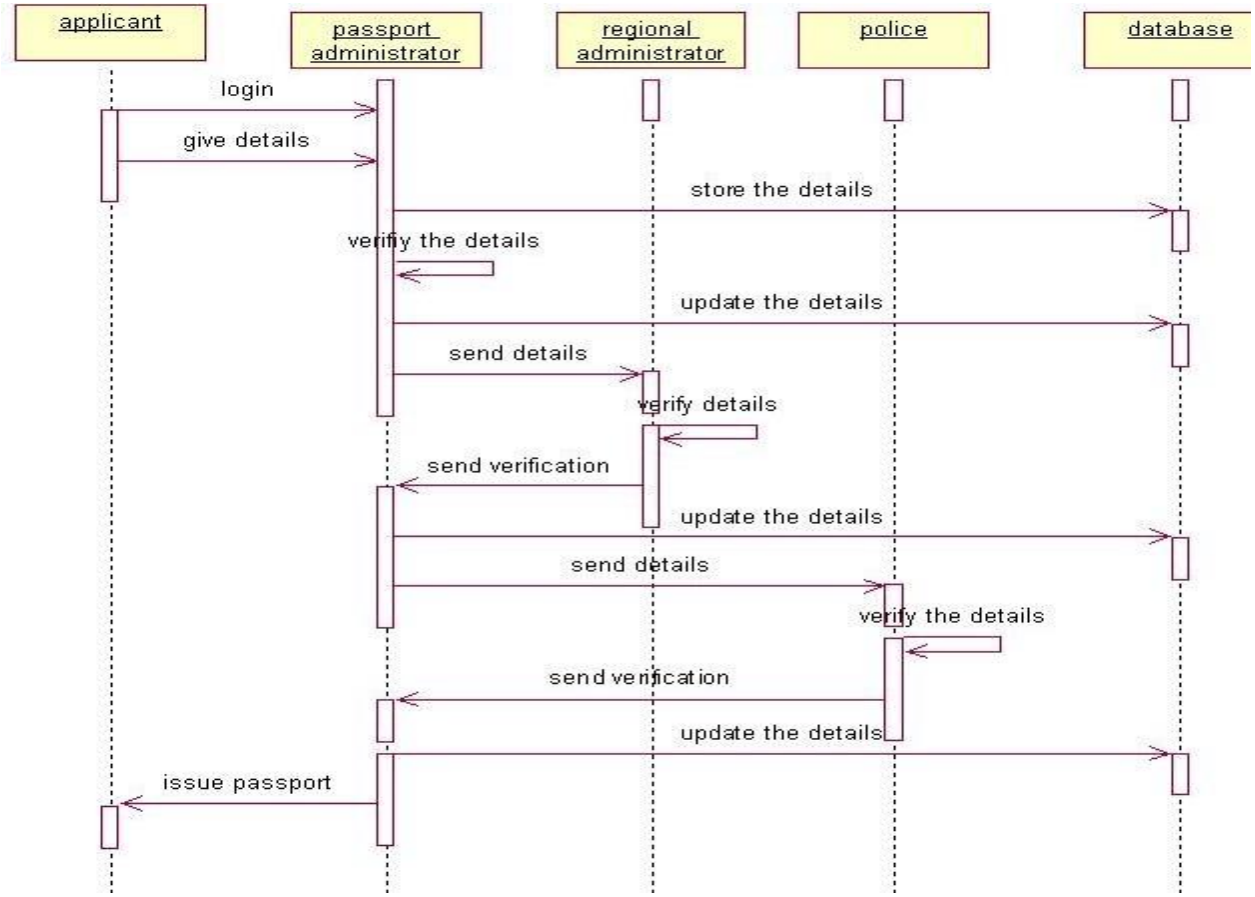
c. **REGIONAL ADMINISTRATOR-** The regional administrator has attribute such as name and operation are get details, verify details and send. The regional administrator get the details form database and verify with their database

d. **PASSPORT ADMINISTRATOR-**The passport administrator has attributed such as name and operation are get details, verify details and issue. The passport administrator get the details form database and verify with their database , update the verification and issue the passport

e. **THE POLICE-**The police has attribute such as name and operation are get details, verify details and send. The police get the details form database and verify with their database , update the verification in the database

SEQUENCE DIAGRAM

A sequence diagram shows an interaction arranged in time sequence,
It shows object participating in interaction by their lifeline by the message they exchange arranged in time sequence. Vertical dimension represent time and horizontal dimension represent object.



DOCUMENTATION OF SEQUENCE DIAGRAM.

a. The applicant login the database and give his details and database store the details.

b. The passport administrator get the details from the database and do verification and the forward to regional administrator.

c. The regional administrator get details form passport administrator and perform verification and send report to passport administrator.

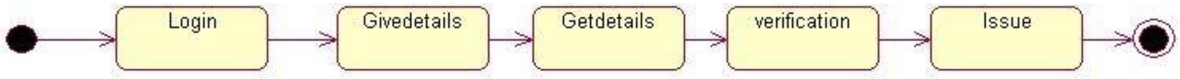
d. The police get the details form passport administrator and perform verification and send report to passport administrator

COLLABORATION DIAGRAM

A collaboration diagram is similar to sequence diagram but the message in number format. In a collaboration diagram sequence diagram is indicated by the numbering the message. A collaboration diagram, also called a communication diagram or interaction diagram, A sophisticated modeling tool can easily convert a collaboration diagram into a sequence diagram and the vice versa. A collaboration diagram resembles a flowchart that portrays the roles, functionality and behavior of individual objects as well as the overall operation of the system in real time

STATE CHART DIAGRAM

The state chart diagram contains the states in the rectangle boxes and starts in indicated by the dot and finish is indicated by dot encircled. The purpose of state chart diagram is to understand the algorithm in the performing method.



DOCUMENTATION OF STATE CHART DIAGRAM

a. The states of the passport automation system are denoted in the state chart diagram

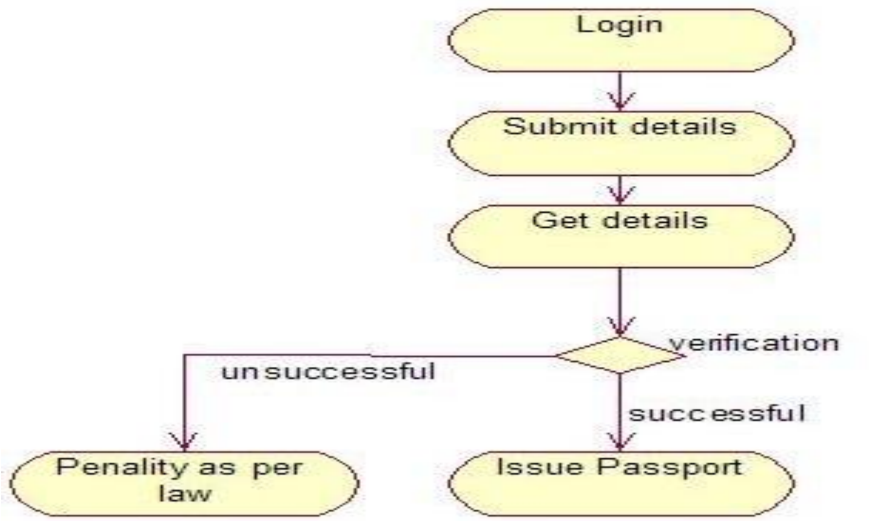
b. Login state represent authentication for login the passport automation system.

c. In this state, it checks whether the applicant has provided all the details that is required.

d. Police, regional administrator and passport administrator get necessary details and verification of the applicant are denoted from the Get detail state and verification state

ACTIVITY DIAGRAM

An activity diagram is a variation or special case of a state machine in which the states or activity representing the performance of operation and transitions are triggered by the completion of operation. The purpose is to provide view of close and what is going on inside a use case or among several classes. An activity is shown as rounded box containing the name of operation



DOCUMENTATION OF ACTIVITY DIAGRAM

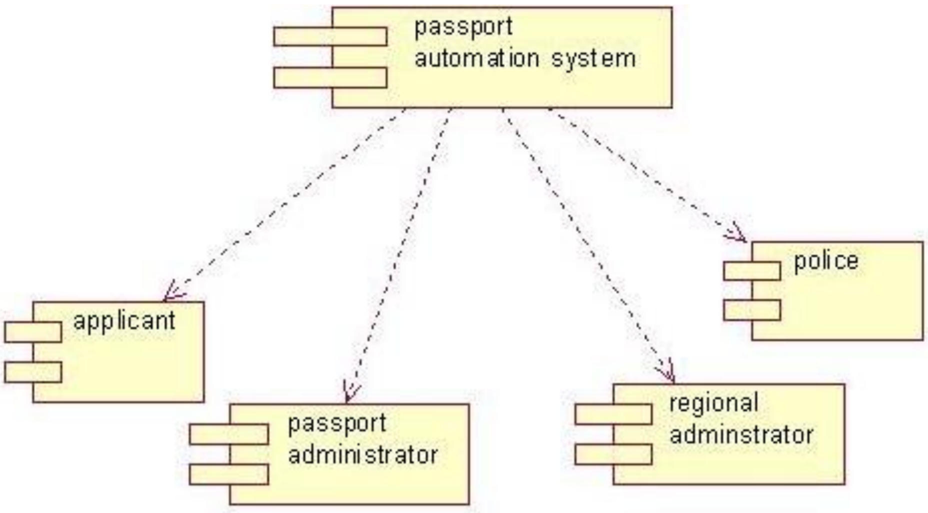
a. The activities in the passport automation system are login, submit details, get details, issue passport and penalty and verification.

b. In the login activity applicant give username and password and then login into the passport automation system after then fill the details that are required for application.

c. After the verification procedure completed successfully the passport is issued to the applicant.

COMPONENT DIAGRAM

The component diagram is represented by figure dependency and it is a graph of design of figure dependency. The component diagram's main purpose is to show the structural relationships between the components of a systems. It is represented by boxed figure. Dependencies are represented by communication assosiation.



DOCUMENTATION OF COMPONENT DIAGRAM

a. The components in the passport automation system are passport automation system, applicant, passport administrator, regional administrator, and police.

b. Applicant ,passport administrator, regional administrator and police are dependent on passport automation system are shown by the dotted arrow

DEPLOYMENT DIAGRAM

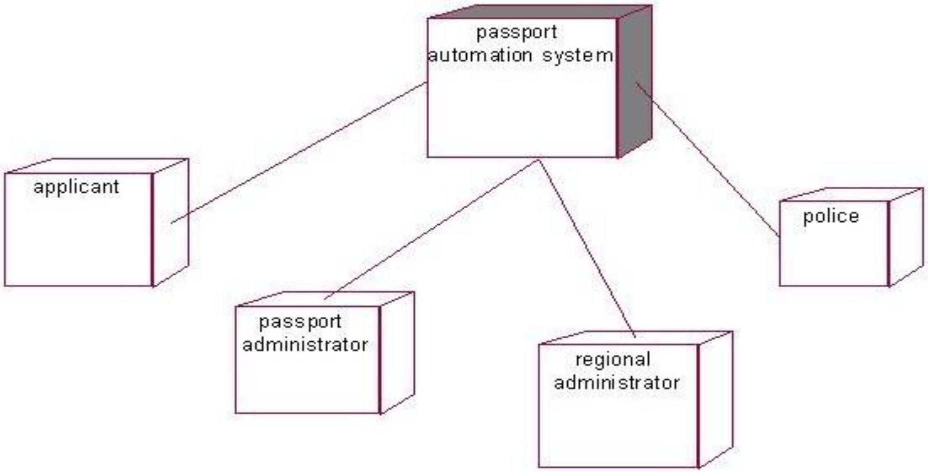
It is a graph of nodes connected by communication association. It is represented by a three dimensional box. A deployment diagram in the unified modeling language serves to model the physical deployment of artifacts on deployment targets. Deployment diagrams show "the allocation of artifacts to nodes according to the Deployments defined between them. It is represented by 3-dimentional box. Dependencies are represented by communication association. The basic element of a deployment diagram is a node of two types

DEVICE NODE–

A physical computing resource with processing and memory service to execute software, such as a typical computer or a mobile phone.

EXECUTION ENVIRONMENT NODE

This is a software computing resource that runs within an outer node and which itself provides a service to host an execute other executable software element.



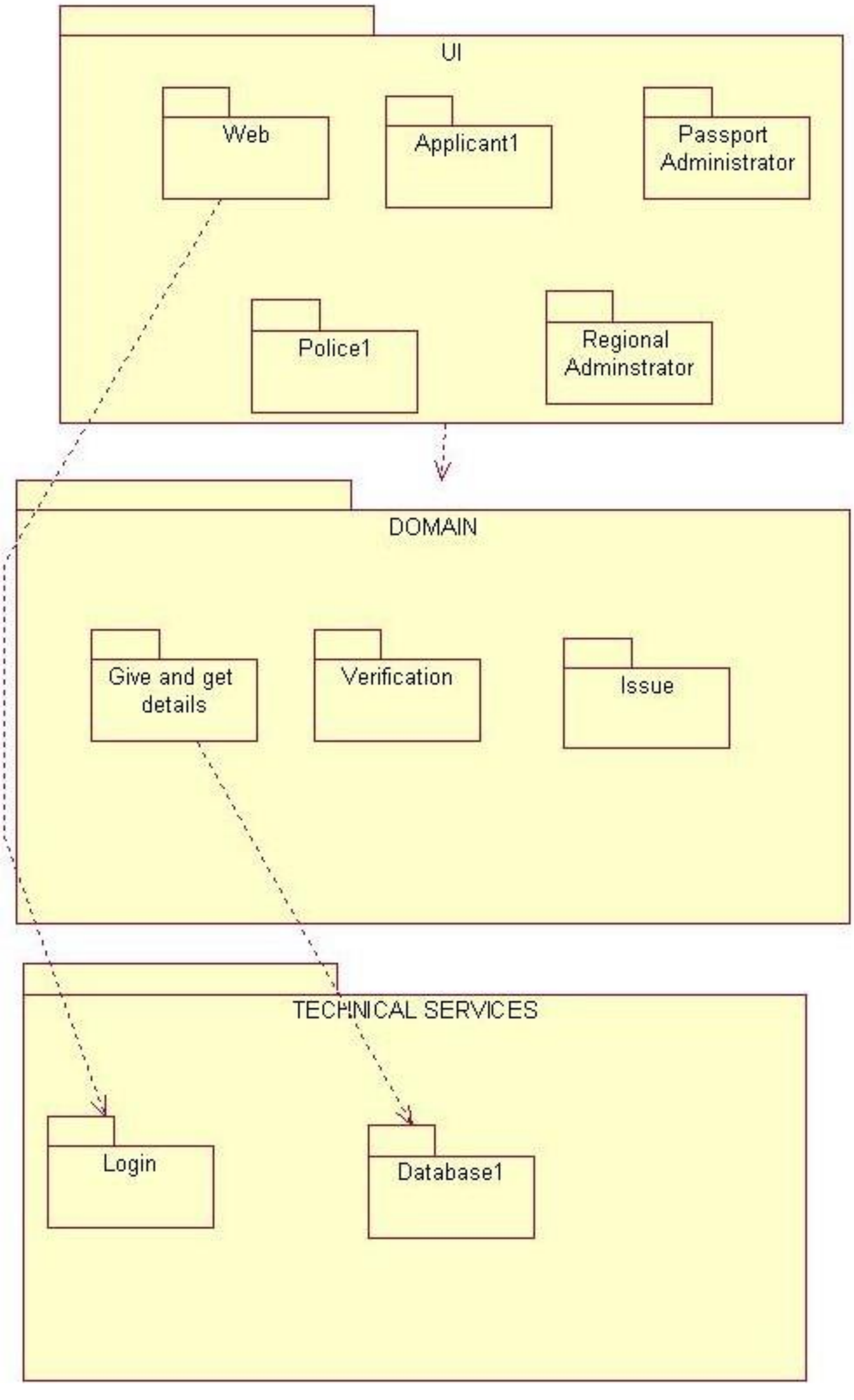
DOCUMENTATION OF DEPLOYMENT DIAGRAM

The device node is passport automation system and execution environment node are applicant passport administrator, regional administrator, and police.

PACKAGE DIAGRAM

A package diagram is represented as a folder shown as a large rectangle with a top attached to its upper left corner. A package may contain both sub ordinate package and ordinary model elements. All uml models and diagrams are organized into package. A package diagram in unified modeling language that depicts the dependencies between the packages that make up a model. A Package Diagram (PD) shows a grouping of elements in the OO model, and is a Cradle extension to UML. PDs can be used to show groups of classes in Class Diagrams (CDs), groups of components or processes in Component Diagrams (CPDs), or groups of processors in Deployment Diagrams (DPDs).
There are three types of layer. They are

- User interface layer
- Domain layer
- Technical services layer


UI
Web
Applicant1
Passport Administrator
Police1
Regional Adminstrator
DOMAIN
Give and get details
Verification
Issue
TECHNICAL SERVICES
Login
Database1

DOCUMENTATION OF PACKAGE DIAGRAM

The three layer in the passport automation system are user interface layer, domain layer, technical service layer

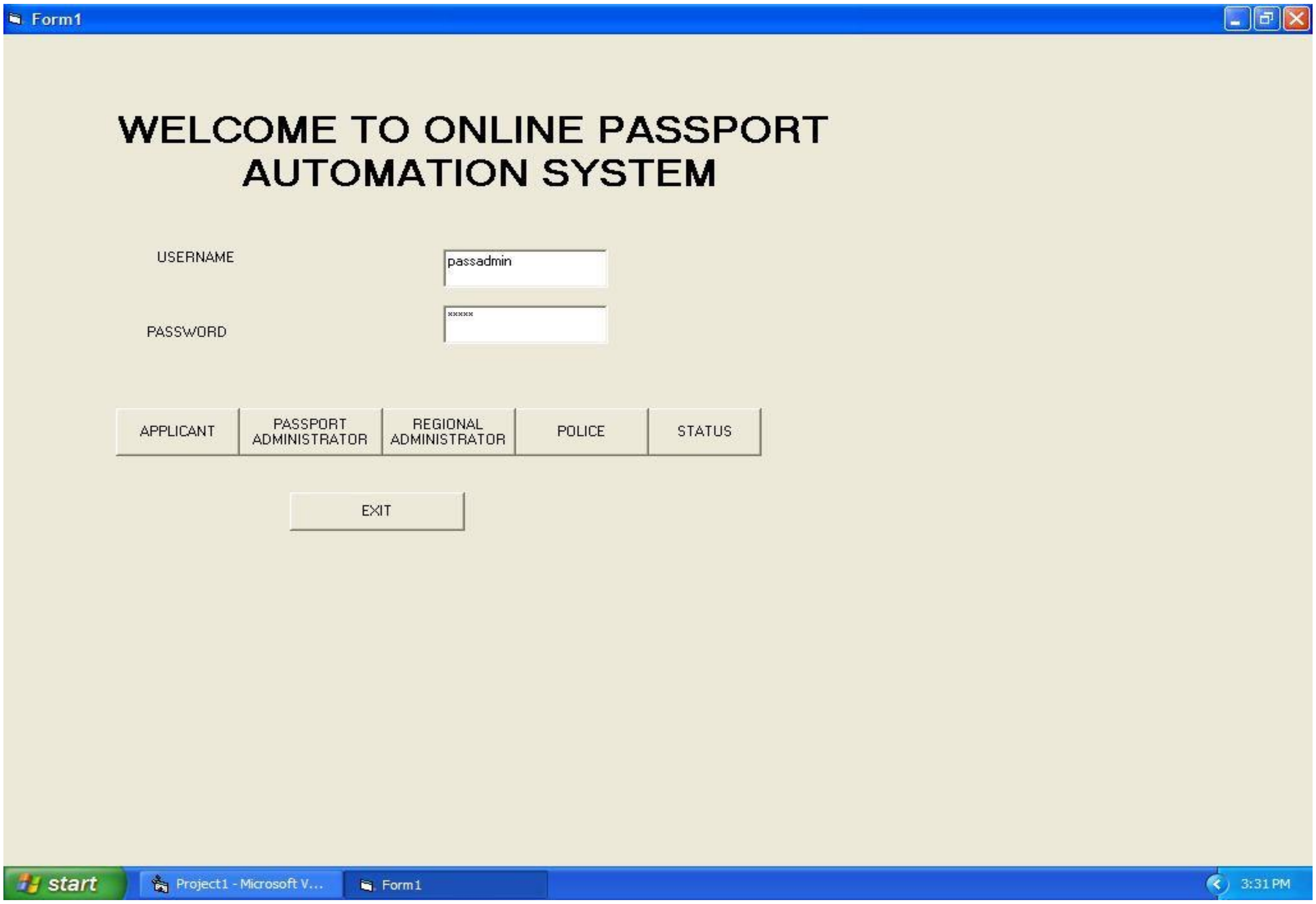
a. **The user interface layer-** represents the user interface components such as web, applicant, passport administrator, police, and regional administrator.

b. **The domain layer-** has major actions such as give and get details, verification and issues.

c. **Technical service layer-** authenticated user only can access the technical services.

FORMS:

FORM1:

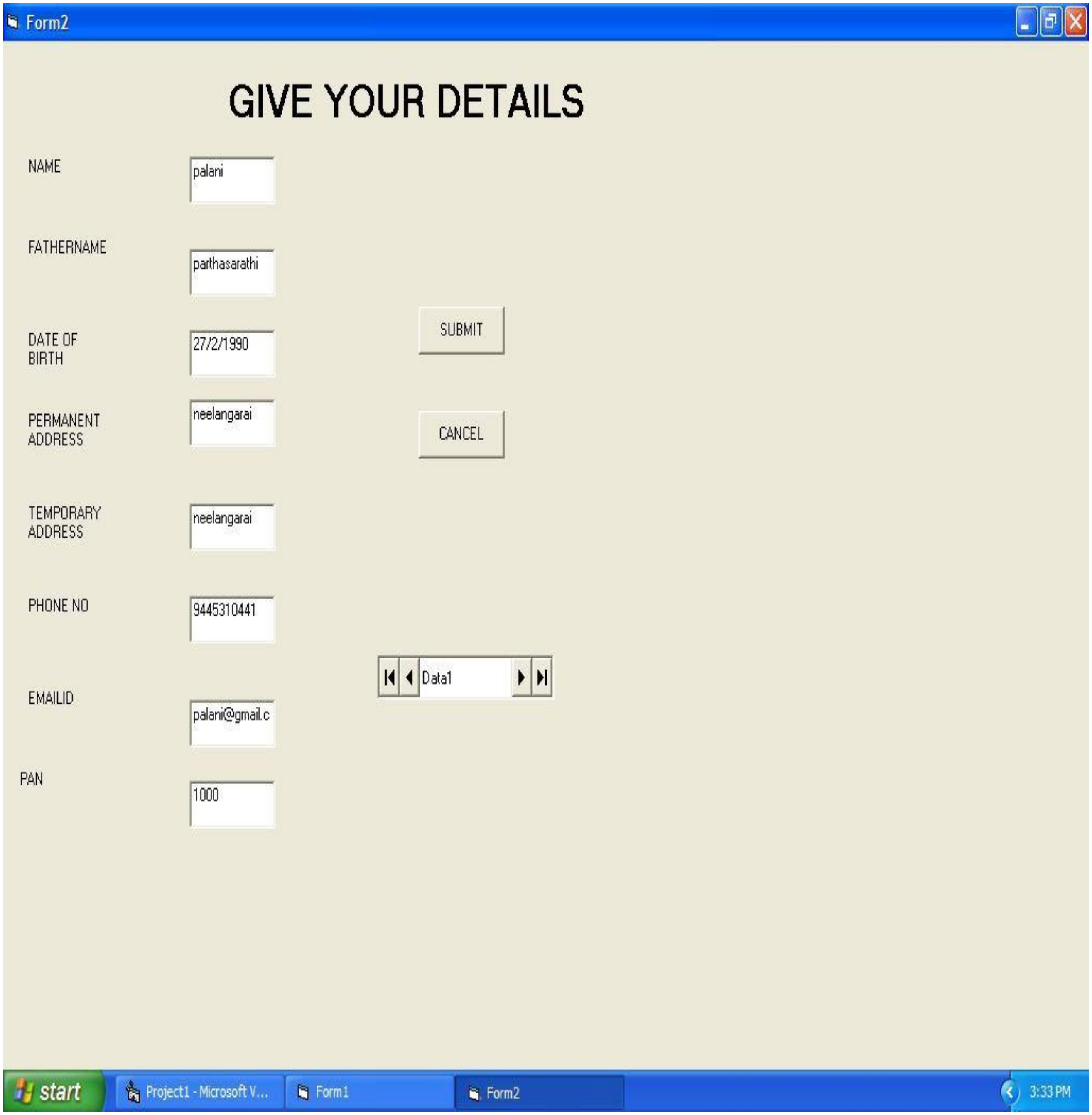


WELCOME TO ONLINE PASSPORT AUTOMATION SYSTEM

USERNAME passadmin

PASSWORD *****

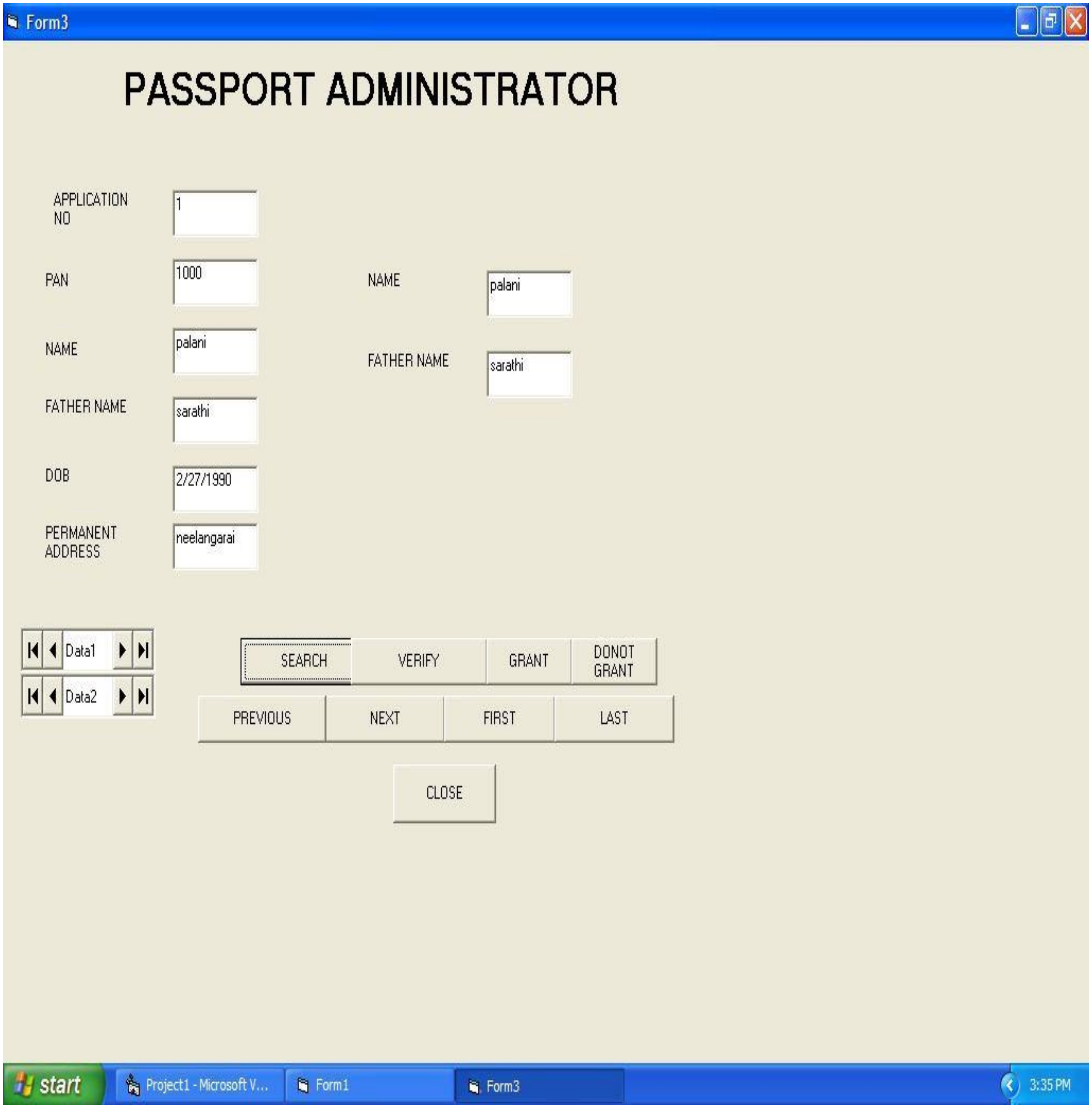
FORM2:



GIVE YOUR DETAILS

NAME	palani
FATHERNAME	parthasarathi
DATE OF BIRTH	27/2/1990
PERMANENT ADDRESS	neelangarai
TEMPORARY ADDRESS	neelangarai
PHONE NO	9445310441
EMAILID	palani@gmail.c
PAN	1000

FORM3:



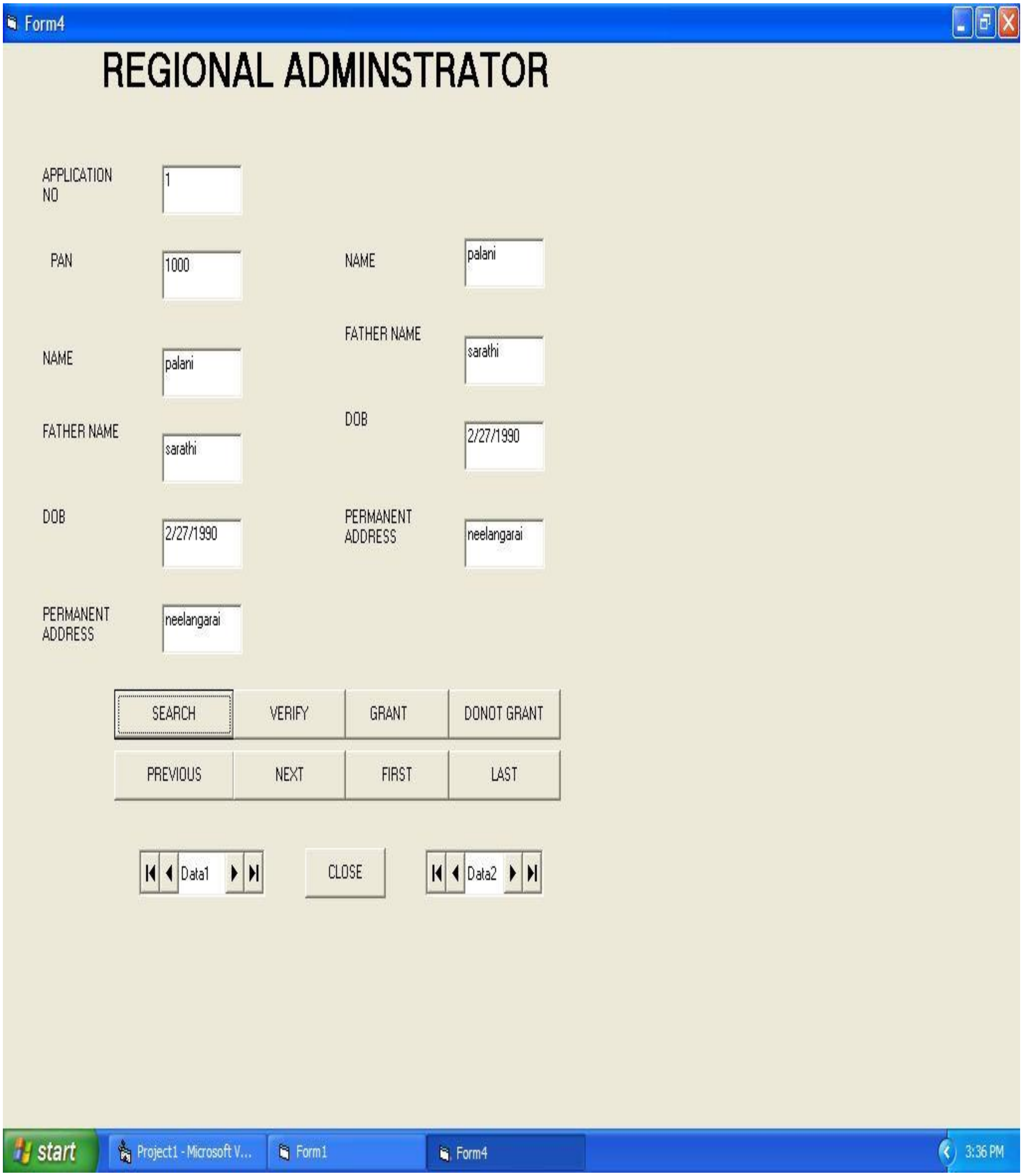
Form3

PASSPORT ADMINISTRATOR

APPLICATION NO	1
PAN	1000
NAME	palani
FATHER NAME	sarathi
DOB	2/27/1990
PERMANENT ADDRESS	neelangarai

NAME	palani
FATHER NAME	sarathi

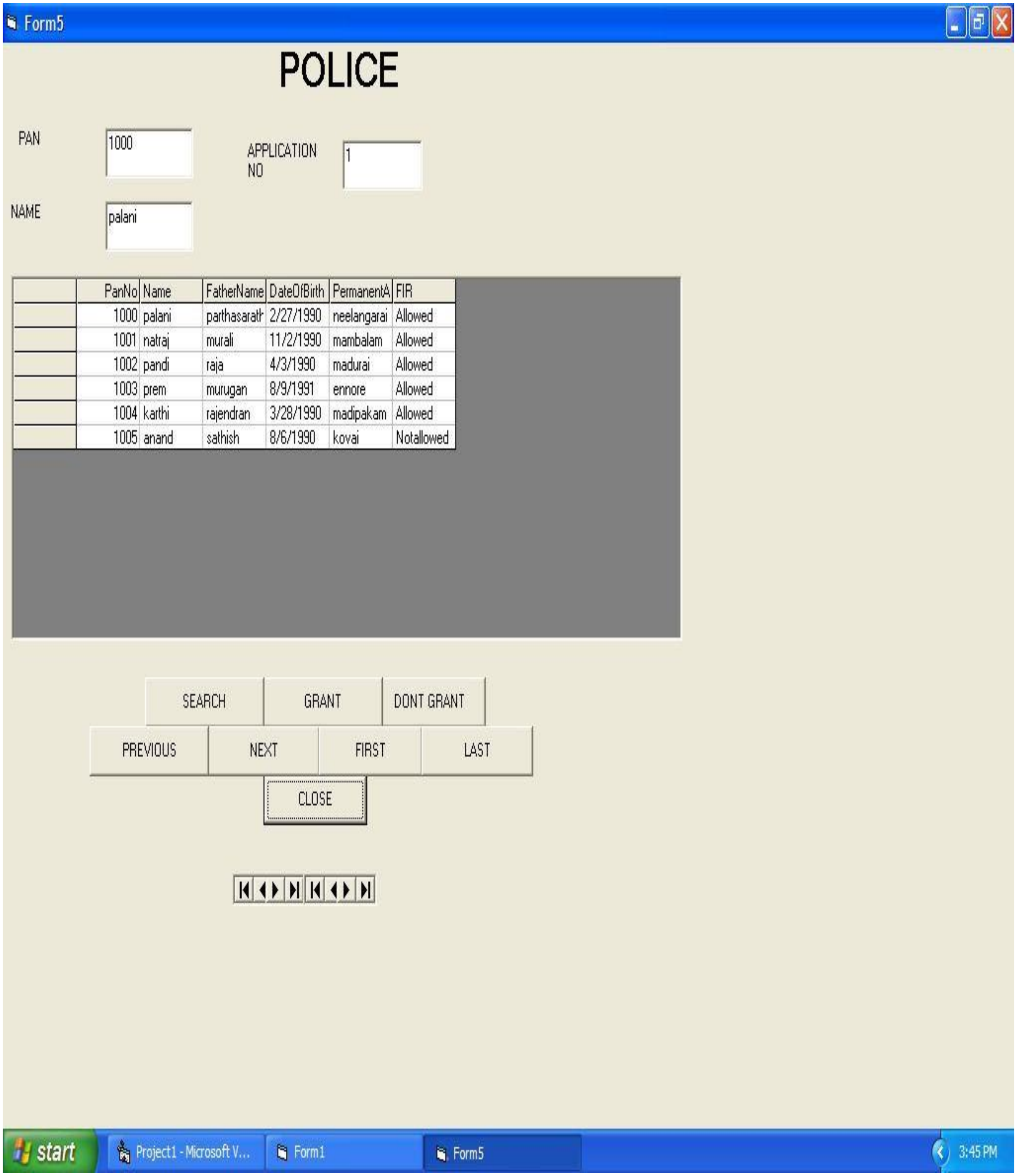
FORM4:



REGIONAL ADMINSTRATOR

APPLICATION NO	1		
PAN	1000	NAME	palani
NAME	palani	FATHER NAME	sarathi
FATHER NAME	sarathi	DOB	2/27/1990
DOB	2/27/1990	PERMANENT ADDRESS	neelangarai
PERMANENT ADDRESS	neelangarai		

FORM5:



POLICE

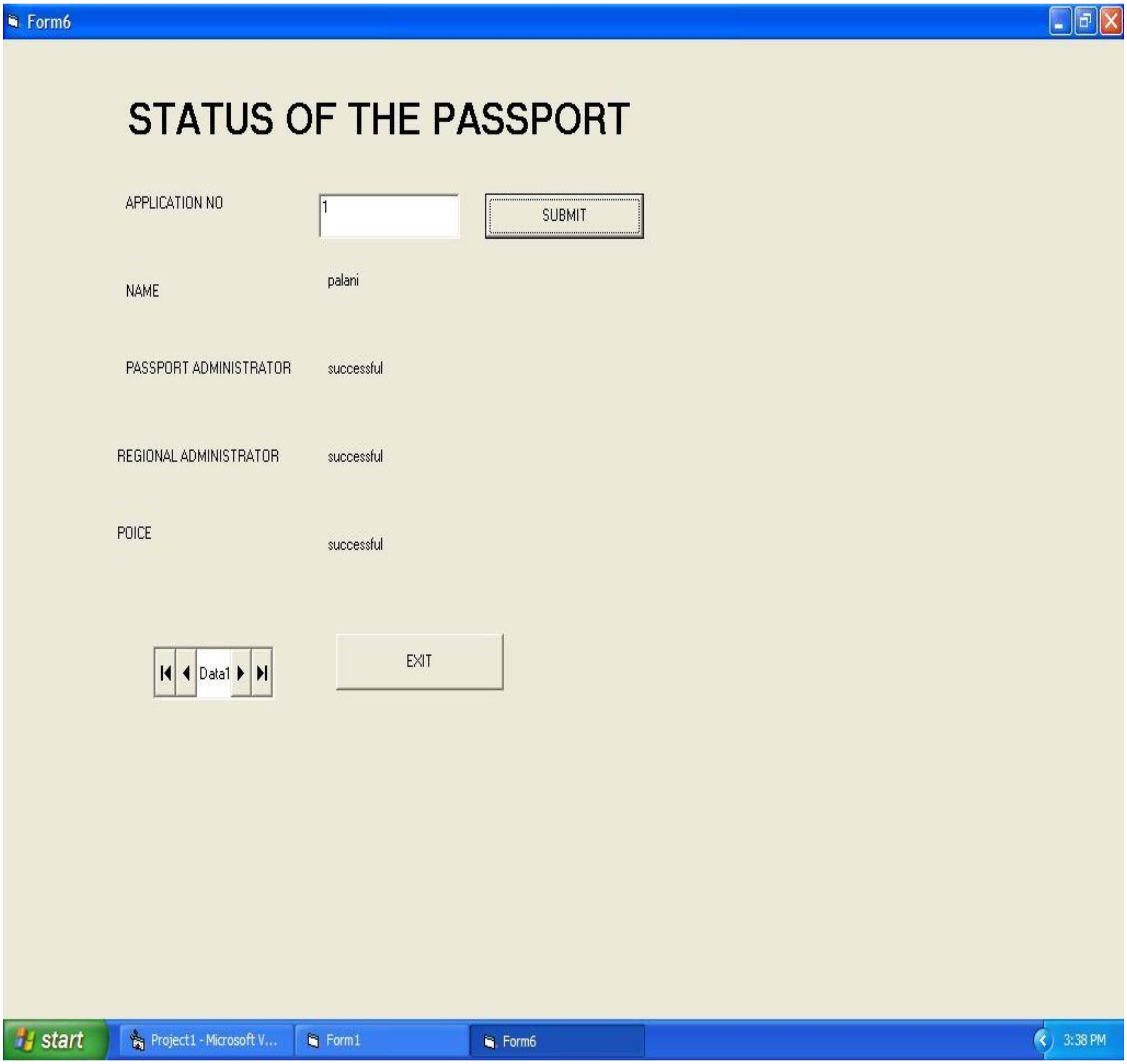
PAN 1000

APPLICATION NO 1

NAME palani

	PanNo	Name	FatherName	DateOfBirth	PermanentA	FIR
	1000	palani	parthasarath	2/27/1990	neelangarai	Allowed
	1001	natraj	murali	11/2/1990	mambalam	Allowed
	1002	pandi	raja	4/3/1990	madurai	Allowed
	1003	prem	murugan	8/9/1991	ennore	Allowed
	1004	karthi	rajendran	3/28/1990	madipakam	Allowed
	1005	anand	sathish	8/6/1990	kovai	Notallowed

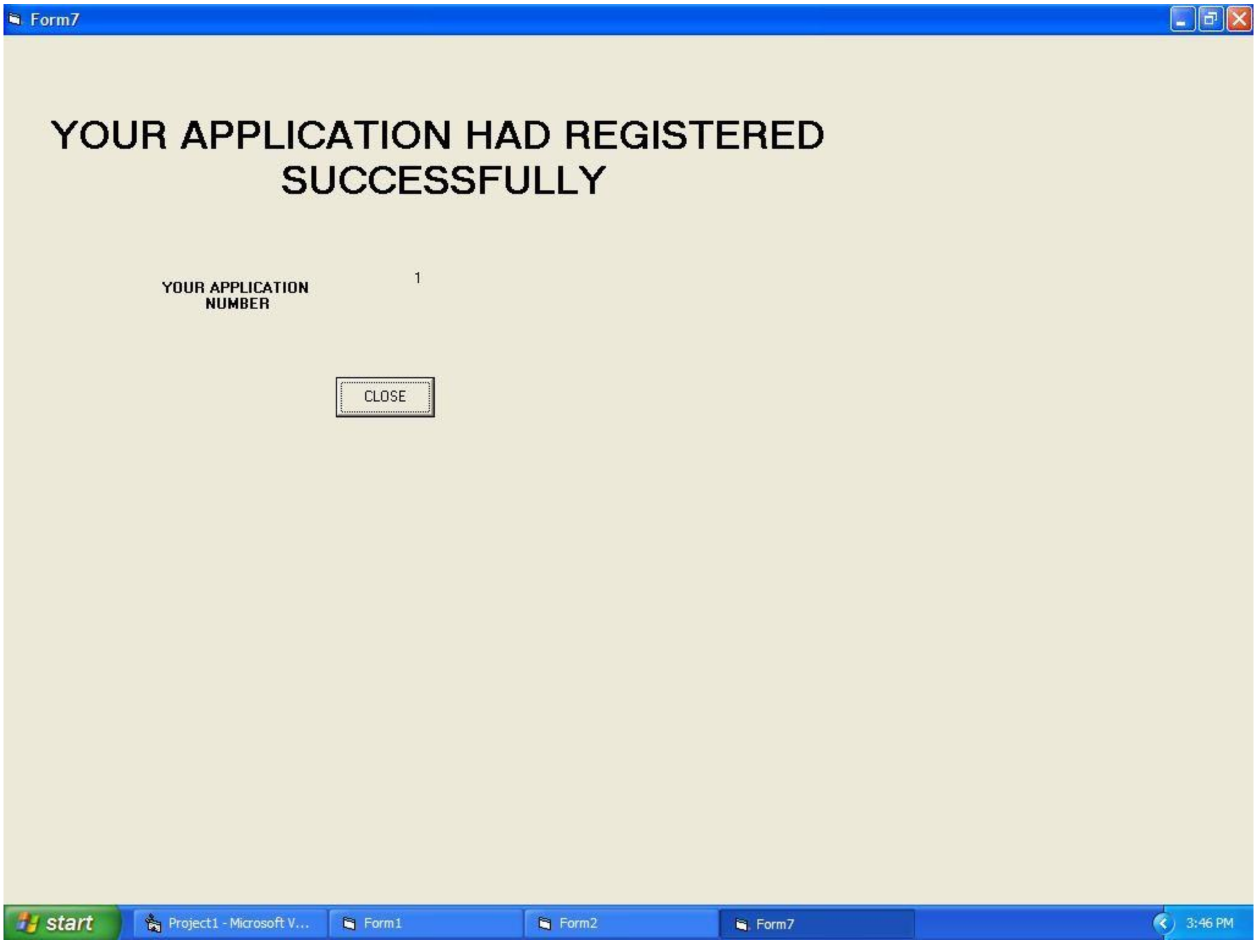
FORM6:



STATUS OF THE PASSPORT

APPLICATION NO	1
NAME	palani
PASSPORT ADMINISTRATOR	successful
REGIONAL ADMINISTRATOR	successful
POICE	successful

FORM7:



YOUR APPLICATION HAD REGISTERED SUCCESSFULLY

YOUR APPLICATION NUMBER 1

SOURCE CODE:

FORM1

```
Private Sub Command1_Click()
Dim app As Applicant
Set app = New Applicant
app.Login
End Sub
Private Sub Command2_Click()
Dim pass As PassportAdministrator
Set pass = New PassportAdministrator
pass.Login
End Sub
Private Sub Command3_Click()
Dim reg As RegionalAdminstrator
Set reg = New RegionalAdminstrator
reg.Login
End Sub
```

```
Private Sub Command4_Click()
Dim pol As Police
Set pol = New Police
pol.Login
End Sub
Private Sub Command5_Click()
If Form1.Text1.Text = "" And Form1.Text2.Text = "" Then
MsgBox "LOGIN SUCCESSFUL"
Form6.Show
Else
MsgBox "INVALID USERNAME AND PASSWORD"
Unload Me
End If
End Sub
Private Sub Command6_Click()
End
End Sub
```

FORM2:

```
Private Sub Command1_Click()
Dim subdetails As Applicant
Set subdetails = New Applicant
subdetails.SubmitDetails
End Sub
Private Sub Command3_Click()
Data1.Recordset.Edit
End Sub
Private Sub Command4_Click()
Data1.Recordset.update
End Sub
Private Sub Form_Load()
Text1.Text = ""
Text2.Text = ""
Text3.Text = ""
Text4.Text = ""
Text5.Text = ""
Text6.Text = ""
Text7.Text = ""
Text8.Text = ""
```

```
End Sub
```

FORM3:

```
Private Sub a_Click()
Data2.Recordset.AddNew
End Sub
Private Sub Command1_Click()
Dim search As PassportAdministrator
Set search = New PassportAdministrator
search.update
End Sub
Private Sub Command2_Click()
If Data1.Recordset.BOF Then
MsgBox "NO DATA FOUND"
Else
Data1.Recordset.MovePrevious
End If
End Sub
Private Sub Command3_Click()
If Data1.Recordset.EOF Then
MsgBox "NO DATA FOUND"
Else
Data1.Recordset.MoveNext
End If
End Sub
Private Sub Command4_Click()
Form1.Show
Unload Me
End Sub
Private Sub Command5_Click()
Data1.Recordset.MoveFirst
End Sub
Private Sub Command6_Click()
Data1.Recordset.MoveLast
End Sub
Private Sub Command7_Click()
Data1.Recordset.Edit
```

```
Data1.Recordset.Fields(9) = "successful"
Data1.Recordset.update
End Sub
Private Sub Command8_Click()
Data1.Recordset.Edit
Data1.Recordset.Fields(9) = "unsuccessful"
Data1.Recordset.update
End Sub
Private Sub ve_Click()
Dim verify As PassportAdministrator
Set verify = New PassportAdministrator
verify.update
End Sub
```

FORM4:

```
Private Sub Command1_Click()
Dim search As RegionalAdminstrator
Set search = New RegionalAdminstrator
search.verify
End Sub
Private Sub Command2_Click()
Data1.Recordset.Edit
Data1.Recordset.Fields(10) = "successful"
Data1.Recordset.update
End Sub
Private Sub Command3_Click()
Data1.Recordset.Edit
Data1.Recordset.Fields(10) = "unsuccessful"
Data1.Recordset.update
End Sub
Private Sub Command4_Click()
Form1.Show
Unload Me
End Sub
Private Sub Command5_Click()
Dim update As RegionalAdminstrator
Set update = New RegionalAdminstrator
update.update
```

```
End Sub
Private Sub Command6_Click()
Data1.Recordset.MoveLast
End Sub
Private Sub Command7_Click()
Data1.Recordset.MoveFirst
End Sub
Private Sub Command8_Click()
If Data1.Recordset.BOF Then
MsgBox "NO DATA FOUND"
Else
Data1.Recordset.MovePrevious
End If
End Sub
Private Sub Command9_Click()
If Data1.Recordset.EOF Then
MsgBox "NO DATA FOUND"
Else
Data1.Recordset.MoveNext
End If
End Sub
```

FORM5:

```
Private Sub Command1_Click()
Dim search As Police
Set search = New Police
search.verify
End Sub
Private Sub Command2_Click()
Data2.Recordset.Edit
Data2.Recordset.Fields(11) = "successful"
Data2.Recordset.update
End Sub
Private Sub Command3_Click()
Data2.Recordset.Edit
Data2.Recordset.Fields(11) = "unsuccessful"
Data2.Recordset.update
End Sub
```

```
Private Sub Command4_Click()
Form1.Show
Unload Me
End Sub
Private Sub Command6_Click()
Data2.Recordset.MoveLast
End Sub
Private Sub Command7_Click()
Data2.Recordset.MoveFirst
End Sub
Private Sub Command8_Click()
If Data2.Recordset.BOF Then
MsgBox "NO DATA FOUND"
Else
Data2.Recordset.MovePrevious
End If
End Sub
Private Sub Command9_Click()
If Data2.Recordset.EOF Then
MsgBox "NO DATA FOUND"
Else
Data2.Recordset.MoveNext
End If
End Sub
```

FORM6:

```
Private Sub Command1_Click()
Dim checkstate As Applicant
Set checkstate = New Applicant
checkstate.CheckStatus
End Sub
Private Sub Command2_Click()
Form1.Show
Unload Me
End Sub
```

UML CODINGS:

APPLICANT:

```
Option Explicit
'##ModelId=4D7521E80271
Private Name As Variant
'##ModelId=4D7521EE02CE
Private FatherName As Variant
'##ModelId=4D7521F3009C
Private DateOfBirth As Variant
'##ModelId=4D75220B01A5
Private PermanentAddress As Variant
'##ModelId=4D752220033C
Private TemporaryAddress As Variant
'##ModelId=4D75224101E4
Private EmailID As Variant
'##ModelId=4D75224701E4
Private PhoneNumber As Variant
'##ModelId=4D75224E031C
Private PanNo As Variant
'##ModelId=4D7522590242
Private ApplicationNo As Variant
'##ModelId=4D75225D038A
Private UserName As Variant
'##ModelId=4D75226300CB
Private Password As Variant
'##ModelId=4D7523300271
Public NewProperty As Database
'##ModelId=4D7522690109
Public Sub Login()
If Form1.Text1.Text = "" And Form1.Text2.Text = "" Then
MsgBox "LOGIN SUCCESSFUL"
Form2.Show
Else
MsgBox "INVALID USERNAME AND PASSWORD"
Unload Me
End If
End Sub
'##ModelId=4D752271032C
Public Sub SubmitDetails()
Dim ap As Integer
Form1.Data1.Recordset.MoveLast
ap = Data1.Recordset.Fields(0)
Data1.Recordset.AddNew
ap = ap + 1
Form1.Data1.Recordset.Fields(0) = ap
```

```
Form1.Data1.Recordset.Fields(1) = Text1.Text
Form1.Data1.Recordset.Fields(2) = Text2.Text
Form1.Data1.Recordset.Fields(3) = Text3.Text
Form1.Data1.Recordset.Fields(4) = Text4.Text
Form1.Data1.Recordset.Fields(5) = Text5.Text
Form1.Data1.Recordset.Fields(6) = Text6.Text
Form1.Data1.Recordset.Fields(7) = Text7.Text
Form1.Data1.Recordset.Fields(8) = Text8.Text
Form1.Data1.Recordset.Fields(9) = "Under Process"
Form1.Data1.Recordset.Fields(10) = "Under Process"
Form1.Data1.Recordset.Fields(11) = "Under Process"
Form1.Data1.Recordset.update
Form1.Show
Unload Me
End Sub
'##ModelId=4D7522760261
Public Sub CheckStatus()
Dim Currentdb As Database
Set Currentdb = OpenDatabase("D:\PASSPORTPROJECT1\PASSPORT.mdb")
Dim Data As Recordset
Set Data = Currentdb.OpenRecordset("applicant", dbOpenDynaset)
Data.FindFirst "([ApplicationNo])=" & Form6.Text1.Text
If Data.NoMatch Then
MsgBox "No such record"
Else
MsgBox "success"
Form6.Text1.Text = Data.Fields(0)
Form6.Label5 = Data.Fields(1)
Form6.Label7 = Data.Fields(9)
Form6.label9 = Data.Fields(10)
Form6.Label11 = Data.Fields(11)
End If
Data.Close
End Sub
```

DATA BASE:

```
Option Explicit
'##ModelId=4D7522A30222
Private Name As Variant
'##ModelId=4D75233C005D
Public NewProperty As PassportAdministrator
'##ModelId=4D75233E006D
```

```
Public NewProperty2 As RegionalAdminstrator
'##ModelId=4D75234202BF
Public NewProperty3 As Police
'##ModelId=4D7522A50186
Public Sub store()
End Sub
```

PASSPORT ADMINSTRATOR:

```
Option Explicit
'##ModelId=4D7522A90128
Private UserName As Variant
'##ModelId=4D7522F9035B
Private Password As Variant
'##ModelId=4D7522B20232
Public Sub Login()
If Form1.Text1.Text = "passadmin" And Form1.Text2.Text = "12345" Then
MsgBox "LOGIN SUCCESSFUL"
Form1.Text1.Text = ""
Form1.Text2.Text = ""
Form1.Text1.SetFocus
Form3.Show
Else
MsgBox "INVALID USERNAME OR PASSWORD"
Form1.Text1.Text = ""
Form1.Text2.Text = ""
Form1.Text1.SetFocus
End If
End Sub
'##ModelId=4D7522BA004E
Public Sub verify()
Set Currentdb = OpenDatabase("D:\PASSPORTPROJECT1\passport.mdb")
Dim Data As Recordset
Set Data = Currentdb.OpenRecordset("PassportAdministrator", dbOpenDynaset)
If Form3.Text1.Text = "" Then
MsgBox "select any data"
Else
Data.FindFirst "([PanNo])=" & Form3.Text1.Text
If Data.NoMatch Then
MsgBox "No such record"
Else
MsgBox "success"
Form3.Text7.Text = Data.Fields(1)
```

```
Form3.Text8.Text = Data.Fields(2)
End If
End If
End Sub
'##ModelId=4D7522BF01D4
Public Sub update()
If Form3.Text2.Text = Form3.Text7.Text And Form3.Text3.Text =
Form3.Text8.Text Then
Form3.Data1.Recordset.Edit
Form3.Data1.Recordset.Fields(9) = "successful"
Form3.Data1.Recordset.update
MsgBox
"success" Else
MsgBox "no "
Form3.Text7.Text = ""
Form3.Text8.Text = ""
End If
End Sub
```

POLICE:

```
Option Explicit
'##ModelId=4D7522E1001F
Private UserName As Variant
'##ModelId=4D75232601D4
Private Password As Variant
'##ModelId=4D7522E30251
Public Sub Login()
If Form1.Text1.Text = "poladmin" And Form1.Text2.Text = "12345" Then
MsgBox "LOGIN SUCCESSFUL"
Form1.Text1.Text = ""
Form1.Text2.Text = ""
Form1.Text1.SetFocus
Form5.Show
Else
MsgBox "INVALID USERNAME OR PASSWORD"
Form1.Text1.Text = ""
Form1.Text2.Text = ""
Form1.Text1.SetFocus
End If
End Sub
'##ModelId=4D7522E8008C
Public Sub verify()
Dim Currentdb As Database
Set Currentdb = OpenDatabase("D:\PASSPORTPROJECT1\passport.mdb")
Dim Data As Recordset
```

```
Set Data = Currentdb.OpenRecordset("Police", dbOpenDynaset)
If Form5.Text1.Text = "" Then
MsgBox "select any data"
Else
Data.FindFirst "([PanNo])=" & Form5.Text1.Text
If Data.NoMatch Then
MsgBox "No such record"
Else
MsgBox "success"
If Data.Fields(5) = "Notallowed" Then
MsgBox "not allowed"
Else
MsgBox "allowed"
End If
End If
End If
Data.Close
End Sub
'##ModelId=4D7522EA02BF
Public Sub update()
End Sub
```

REGIONAL ADMINSTRATOR:

```
Option Explicit
'##ModelId=4D7522C80222
Private UserName As Variant
'##ModelId=4D75231A0109
Private Password As Variant
'##ModelId=4D7522CB02CE
Public Sub Login()
If Form1.Text1.Text = "regadmin" And Form1.Text2.Text = "12345" Then
MsgBox "LOGIN SUCCESSFUL"
Form1.Text1.Text = ""
Form1.Text2.Text = ""
Form1.Text1.SetFocus
Form4.Show
Else
MsgBox "INVALID USERNAME OR PASSWORD"
Form1.Text1.Text = ""
Form1.Text2.Text = ""
Form1.Text1.SetFocus
End If
End Sub
```

```
'##ModelId=4D7522CE01A5
Public Sub verify()
Dim Currentdb As Database
Set Currentdb = OpenDatabase("D:\PASSPORTPROJECT1\passport.mdb")
Dim Data As Recordset
Set Data = Currentdb.OpenRecordset("RegionalAdminstrator", dbOpenDynaset)
If Form4.Text1.Text = "" Then
MsgBox "select any data"
Else
Data.FindFirst "([PanNo])=" & Form4.Text1.Text
If Data.NoMatch Then
MsgBox "No such record"
Else
MsgBox "success"
Form4.Text6.Text = Data.Fields(1)
Form4.Text7.Text = Data.Fields(2)
Form4.Text8.Text = Data.Fields(3)
Form4.Text9.Text = Data.Fields(4)
End If
End If
End Sub
'##ModelId=4D7522D002BF
Public Sub update()
If Form4.Text2.Text = Text6.Text And Form4.Text3.Text = Form4.Text7.Text
And Form4.Text4.Text = Form4.Text8.Text And Form4.Text5.Text =
Form4.Text9.Text Then
MsgBox "Details match"
Else
MsgBox "Details donot match"
End If
End Sub
```

RESULT:

Thus the project to develop passport automation system was developed using Rational Rose Software and to implement the software in Visual Basic is done successfully.

EXNO: 1b PASSPORT AUTOMATION SYSTEM

AIM

To develop the Passport Automation System using rational rose tools, Java and MS access

PROBLEM ANALYSIS AND PROJECT PLAN

To simplify the process of applying passport, software has been created by designing through rational rose tool, using visual basic as a front end and Microsoft access as a back end. Initially the applicant login the passport automation system and submits his details. These details are stored in the database and verification process done by the passport administrator, regional administrator and police the passport is issued to the applicant.

PROBLEM STATEMENT

a. Passport Automation System is used in the effective dispatch of passport to all of the applicants. This system adopts a comprehensive approach to minimize the manual work and schedule resources, time in a cogent manner.

b. The core of the system is to get the online registration form (with details such as name, address etc.,) filled by the applicant whose testament is verified for its genuineness by the Passport Automation System with respect to the already existing information in the database.

c. This forms the first and foremost step in the processing of passport application. After the first round of verification done by the system, the information is in turn forwarded to the regional administrator's (Ministry of External Affairs) office.

d. The application is then processed manually based on the report given by the system, and any forfeiting identified can make the applicant liable to penalty as per the law.

e. The system forwards the necessary details to the police for its separate verification whose report is then presented to the administrator. After all the necessary criteria have been met, the original information is added to the database and the passport is sent to the applicant.

SOFTWARE REQUIREMENTS SPECIFICATION

1.0 INTRODUCTION

Passport Automation System is an interface between the Applicant and the Authority responsible for the Issue of Passport. It aims at improving the efficiency in the Issue of Passport and reduces the complexities involved in it to the maximum possible extent.

1.1 PURPOSE

If the entire process of 'Issue of Passport' is done in a manual manner then it would take several months for the passport to reach the applicant. Considering the fact that the number of applicants for passport is increasing every year, an Automated System becomes essential to meet the demand. So this system uses several programming and database techniques to elucidate the work involved in this process. As this is a matter of National Security, the system has been carefully verified and validated in order to satisfy it.

1.2 SCOPE

a. The System provides an online interface to the user where they can fill in their personal details
b. The authority concerned with the issue of passport can use this system to reduce his workload and process the application in a speedy manner. • Provide a communication platform between the applicant and the administrator. Transfer of data between the Passport Issuing Authority and the Local Police for verification of applicant's information.

1.3 DEFINITIONS, ACRONYMS AND THE ABBREVIATIONS •

Administrator - Refers to the super user who is the Central Authority who has been vested with the privilege to manage the entire system. It can be any higher official in the Regional Passport Office of Ministry of External Affairs. • Applicant - One who wishes to obtain the Passport. • PAS - Refers to this Passport Automation System.

1.4 REFERENCES IEEE Software Requirement Specification format.

1.5 TECHNOLOGIES TO BE USED • Microsoft Visual Basic 6.0

1.6 TOOLS TO BE USED • Rational Rose tool (for developing UML Patterns)

1.7 OVERVIEW

SRS includes two sections overall description and specific requirements - Overall description will describe major role of the system components and inter-connections. Specific requirements will describe roles & functions of the actors.

2.0 OVERALL DESCRIPTION

2.1 PRODUCT PERSPECTIVE

The PAS acts as an interface between the 'applicant' and the 'administrator'. This system tries to make the interface as simple as possible and at the same time not risking the security of data stored in. This minimizes the time duration in which the user receives the passport.

2.2 SOFTWARE INTERFACE

a. **Front End Client** - The applicant and Administrator online interface is built using Java
b. **Back End** – MS Access database.

2.3 HARDWARE INTERFACE

The server is directly connected to the client systems. The client systems have access to the database in the server.

2.4 SYSTEM FUNCTIONS

a. Secure Registration of information by the Applicants.
b. Message box for Passport Application Status Display by the Administrator.
c. Administrator can generate reports from the information and is the only authorized personnel to add the eligible application information to the database.

2.5 USER CHARACTERISTICS

a. Applicant - They are the people who desires to obtain the passport and submit the information to the database.
b. Administrator - He has the certain privileges to add the passport status and to approve the issue of passport. He may contain a group of persons under him to verify the documents and give suggestion whether or not to approve the dispatch of passport.
c. Police - He is the person who upon receiving intimation from the PAS, perform a personal verification of the applicant and see if he has any criminal case against him before or at present. He has been vetoed with the power to decline an application by suggesting it to the Administrator if he finds any discrepancy with the applicant. He communicates via this PAS.

2.6 CONSTRAINTS

- The applicants require a computer to submit their information.
- Although the security is given high importance, there is always a chance of intrusion in the web world which requires constant monitoring.
- The user has to be careful while submitting the information. Much care is required.

2.7 ASSUMPTIONS AND DEPENDENCIES

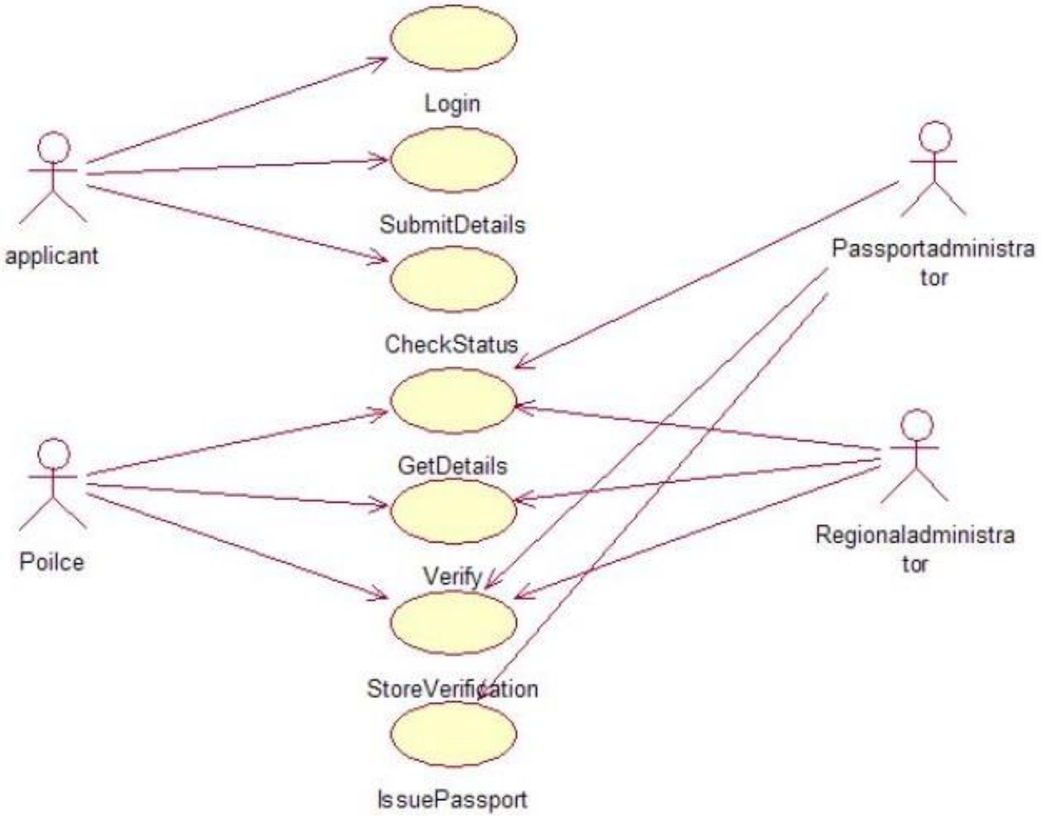
- The Applicants and Administrator must have basic knowledge of computers and English Language.
- The applicants may be required to scan the documents and send.

UML DIAGRAMS

Sno	UML DIAGRAMS
1	Use Case diagram
2	Class diagram
3	Interaction diagram
4	Sequence diagram
5	Collaboration diagram
6	State Chart diagram
7	Activity diagram
8	Component diagram
9	Deployment diagram
10	Package diagram

USE CASE DIAGRAM

Use case is shown as an ellipse containing the name of use case .An actor is shown as a stick figure with the name below it. Use case diagram is a graph of actors.



DOCUMENTATION OF USECASE DIAGRAM

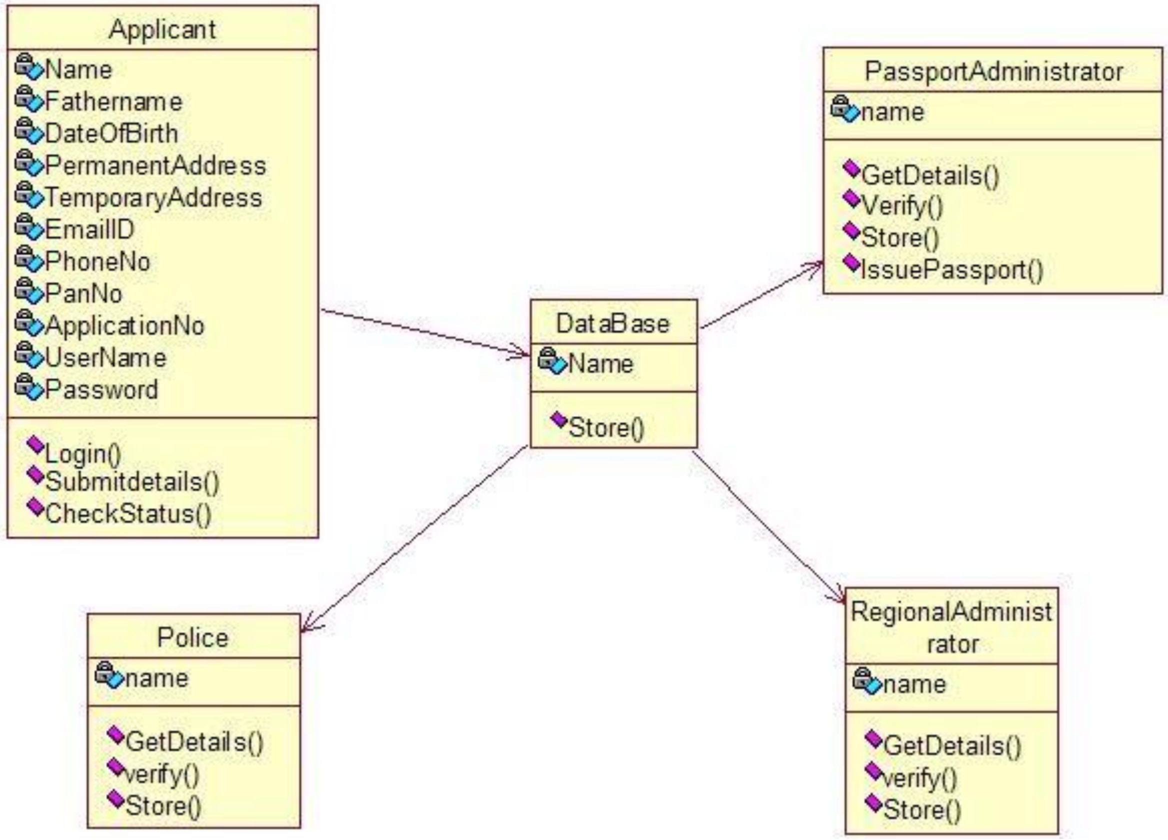
a. The actors in use case diagram are Applicant, regional administrator, database, passport Administrator, Police.

b. The use cases are Login, givedetails, logout, collectdetails, verification, issue.

c. The actors use the use case are denoted by the arrow

CLASSDIAGRAM

A class is drawn as rectangle box with three compartments or components separated by horizontal lines. The top compartment holds the class name and middle compartment holds the attribute and bottom compartment holds list of operations.



DOCUMENTATION OF CLASS DIAGRAM

- The classes are Applicant, database, regional administrator, passport administrator, and police.
- The applicant has attribute such as name and password and operations are login, givedetails and logout.

- The database has attribute such as name and operation is store.

- The regional administrator has attribute such as name and operation are get details, verify details and send.

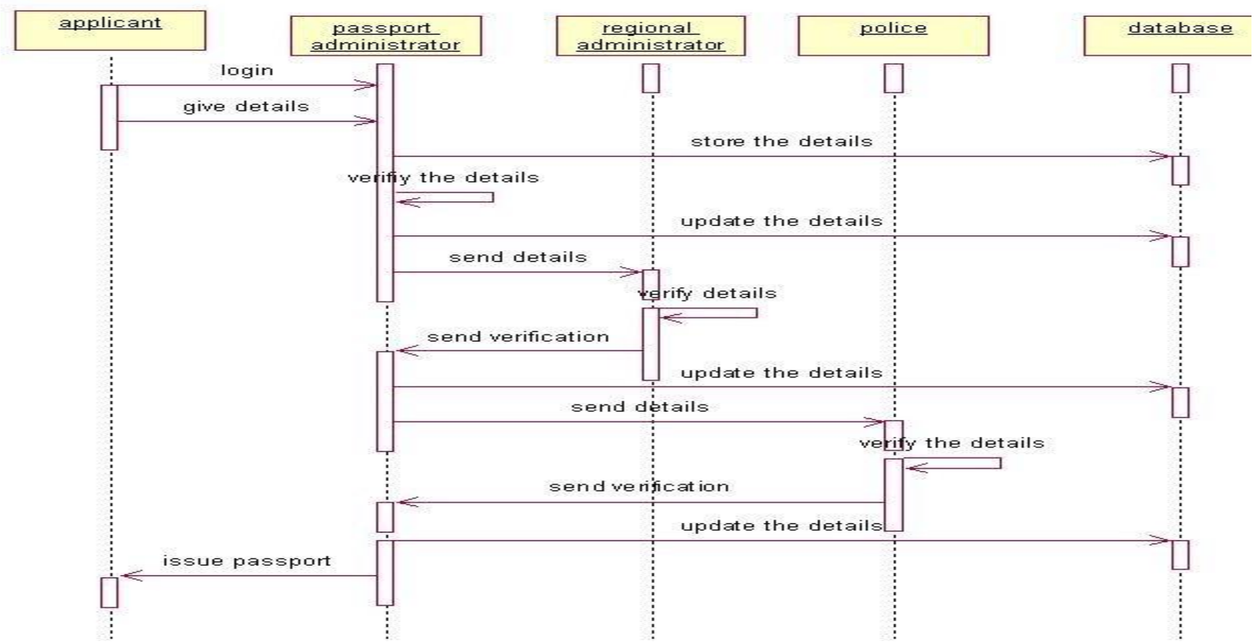
- The passport administrator has attribute such as name and operation are get details, verify details and issue.

- The police has attribute such as name and operation are get details, verify details and send.

SEQUENCE DIAGRAM

A sequence diagram shows an interaction arranged in time sequence,

It shows object participating in interaction by their lifeline by the message they exchange arranged in time sequence. Vertical dimension represent time and horizontal dimension represent object.



DOCUMENTATION OF SEQUENCE DIAGRAM.

- The applicant login the database and give his details and database store the details.

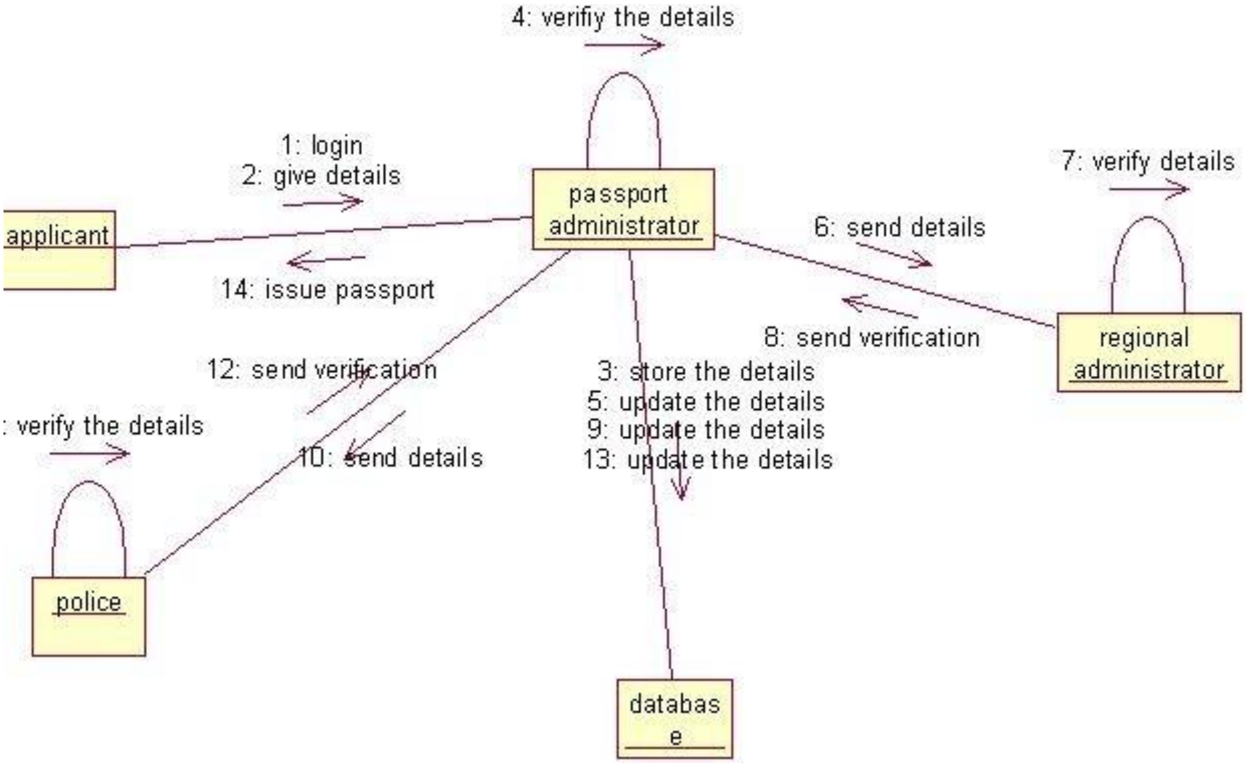
- The passport administrator get the details from the database and do verification and the forward to regional administrator.

- The regional administrator get details form passport administrator and perform verification and send report to passport administrator.

- The police get the details form passport administrator and perform verification and send report to passport administrator.

COLLABORATION DIAGRAM

A collaboration diagram is similar to sequence diagram but the message in number format. In a collaboration diagram sequence diagram is indicated by the numbering the message



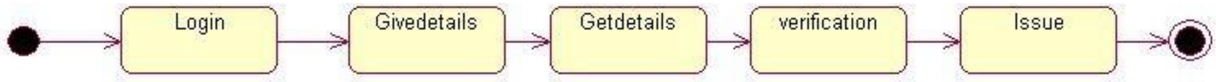
DOCUMENTATION OF COLLABORATION DIAGRAM

a. The applicant, passport administrator, regional administrator, police and database functions are show in sequence number

b. The applicant first login the passport automation system and submit his details the passport administrator, regional administrator and police verification are denoted.

STATE CHART DIAGRAM

The state chart diagram contains the states in the rectangle boxes and starts in indicated by the dot and finish is indicated by dot encircled. The purpose of state chart diagram is to understand the algorithm in the performing method.



DOCUMENTATION OF STATE CHART DIAGRAM

a. The states of the passport automation system are denoted in the state chart diagram

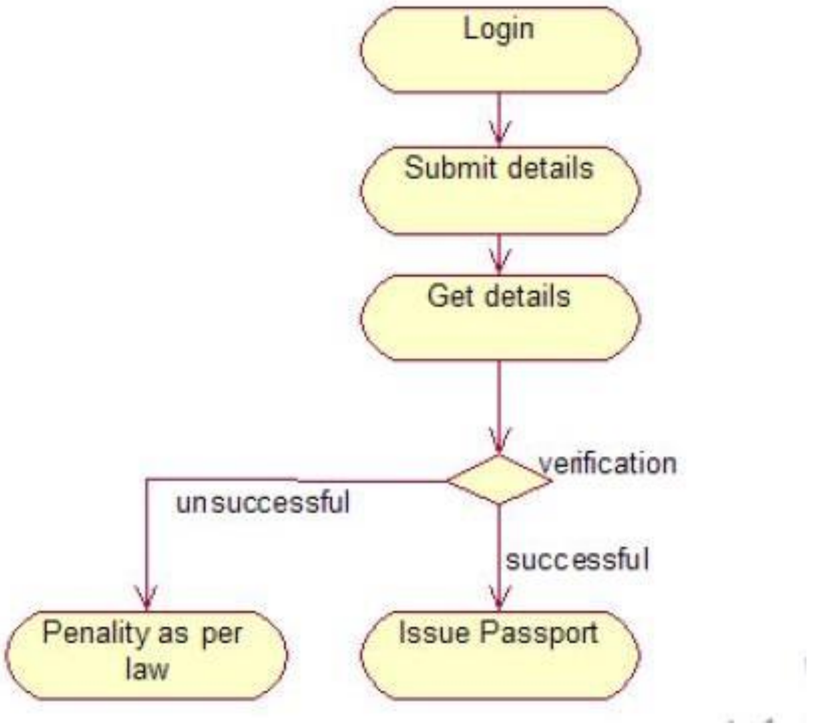
b. Login state represent authentication for login the passport automation system.

c. In this state, it checks whether the applicant has provided all the details that is required.

d. Police, regional administrator and passport administrator get necessary details and verification of the applicant are denoted from the Get detail state and verification state

ACTIVITY DIAGRAM

An activity diagram is a variation or special case of a state machine in which the states or activity representing the performance of operation and transitions are triggered by the completion of operation.
The purpose is to provide view of close and what is going on inside a use case or among several classes. An activity is shown as rounded box containing the name of operation.



DOCUMENTATION OF ACTIVITY DIAGRAM

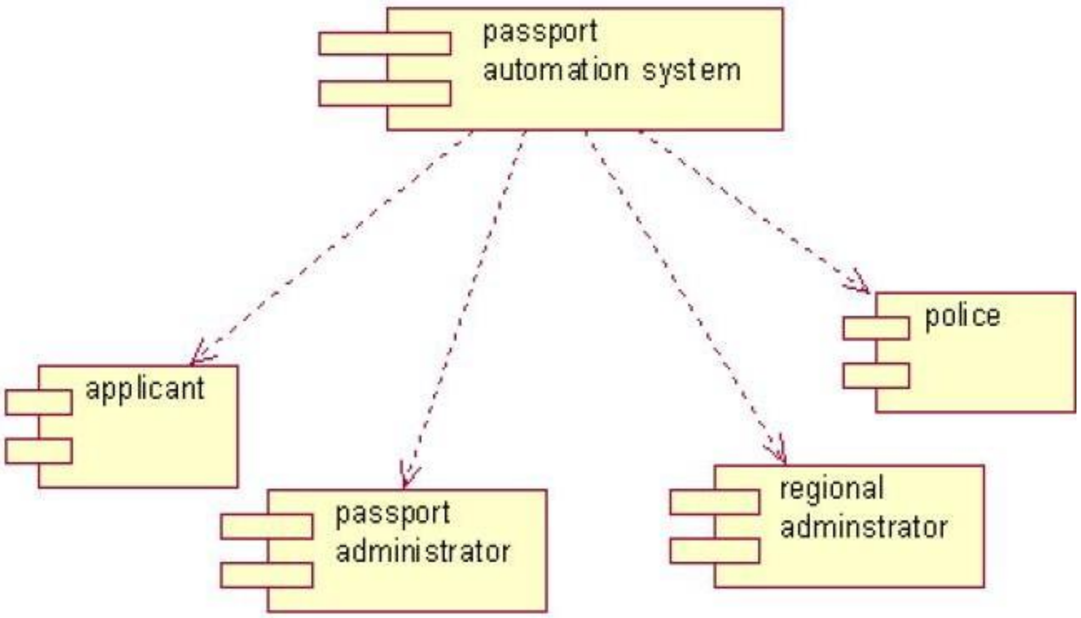
a. The activities in the passport automation system are login, submit details, get details, issue passport and penalty and verification.

b. In the login activity applicant give username and password and then login into the passport automation system after then fill the details that are required for application.

c. After the verification procedure completed successfully the passport is issued to the applicant.

COMPONENT DIAGRAM

The component diagram is represented by figure dependency and it is a graph of design of figure dependency.



DOCUMENTATION OF COMPONENT DIAGRAM

a. The components in the passport automation system are passport automation system, applicant, passport administrator, regional administrator, and police.

b. Applicant ,passport administrator, regional administrator and police are dependent on passport automation system are shown by the dotted arrow

DEPLOYMENT DIAGRAM

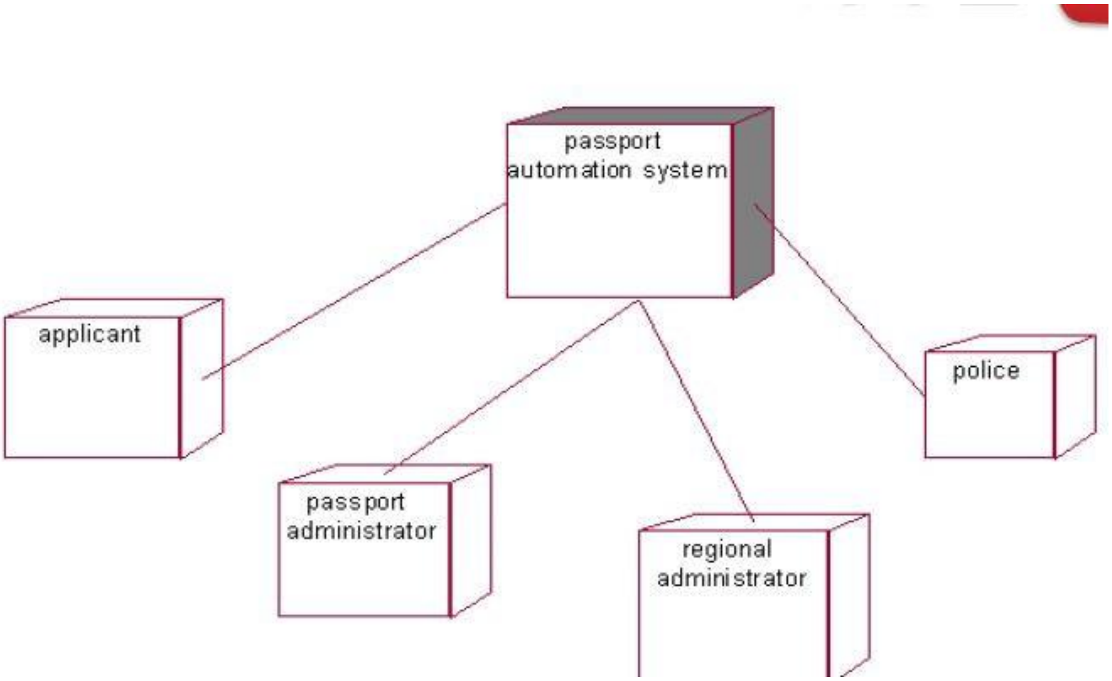
It is a graph of nodes connected by communication association. It is represented by a three dimensional box. The basic element of a deployment diagram is a node of two types

DEVICE NODE

A physical computing resource with processing and memory service to execute software, such as a typical computer or a mobile phone.

EXECUTION ENVIRONMENT NODE

This is a software computing resource that runs within an outer node and which itself provides a service to host an execute other executable software element.

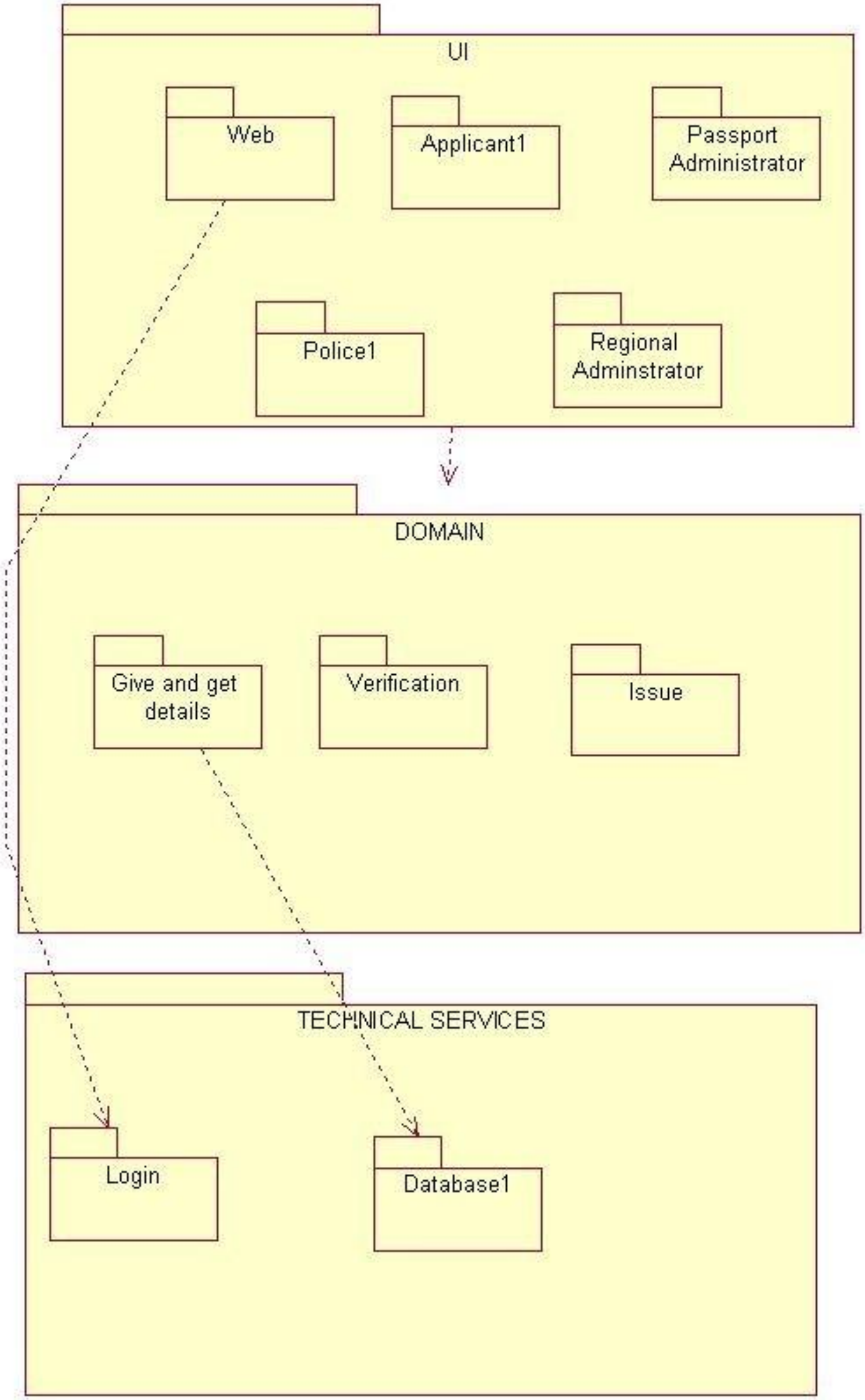


DOCUMENTATION OF DEPLOYMENT DIAGRAM

The device node is passport automation system and execution environment node are applicant passport administrator, regional administrator, and police.

PACKAGE DIAGRAM

A package diagram is represented as a folder shown as a large rectangle with a top attached to its upper left corner. A package may contain both sub ordinate package and ordinary model elements. All uml models and diagrams are organized into package


UI
Web
Applicant1
Passport Administrator
Police1
Regional Adminstrator
DOMAIN
Give and get details
Verification
Issue
TECHNICAL SERVICES
Login
Database1

DOCUMENTATION OF PACKAGE DIAGRAM

a. The three layer in the passport automation system are user interface layer, domain layer, technical service layer

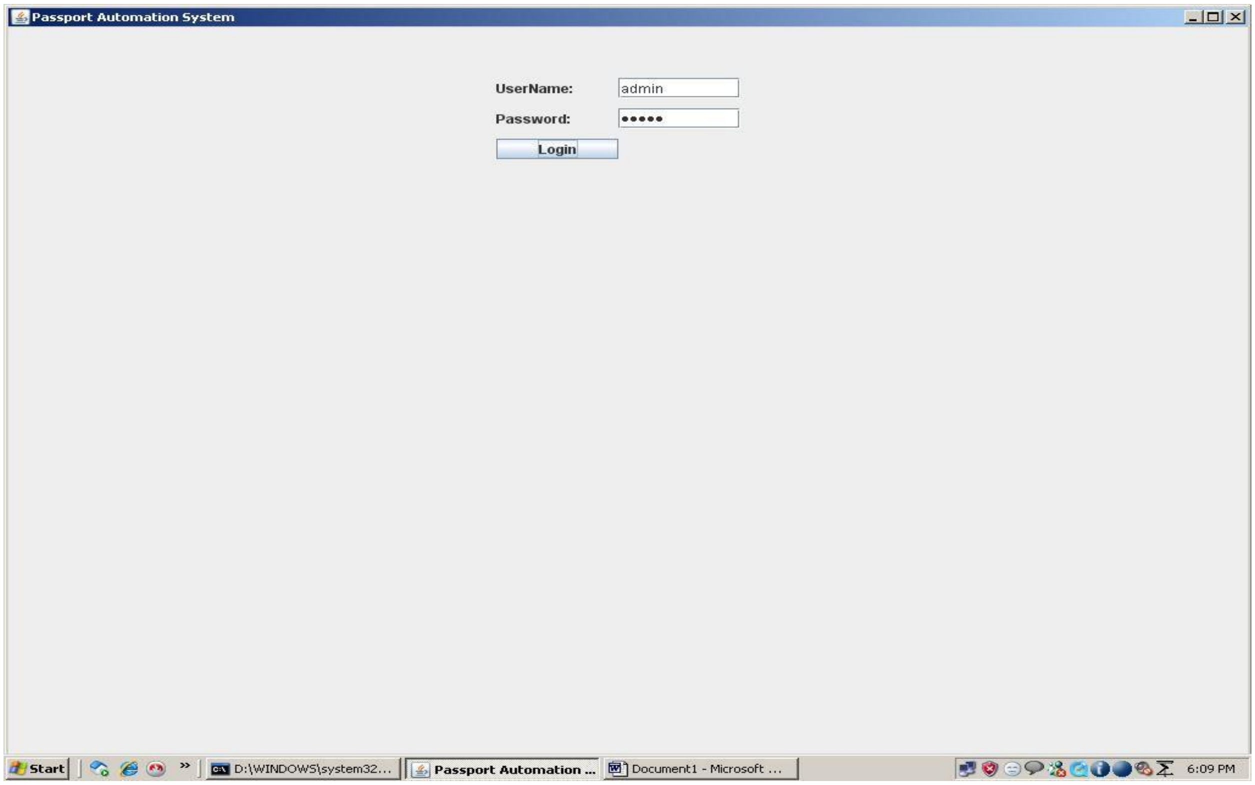
b. The user interface layer represents the user interface components such as web, applicant, passport administrator, police, and regional administrator.

c. The domain layer has major actions such as give and get details, verification and issues.

d. Technical service layer, authenticated user only can access the technical services.

FORMS

FORM 1

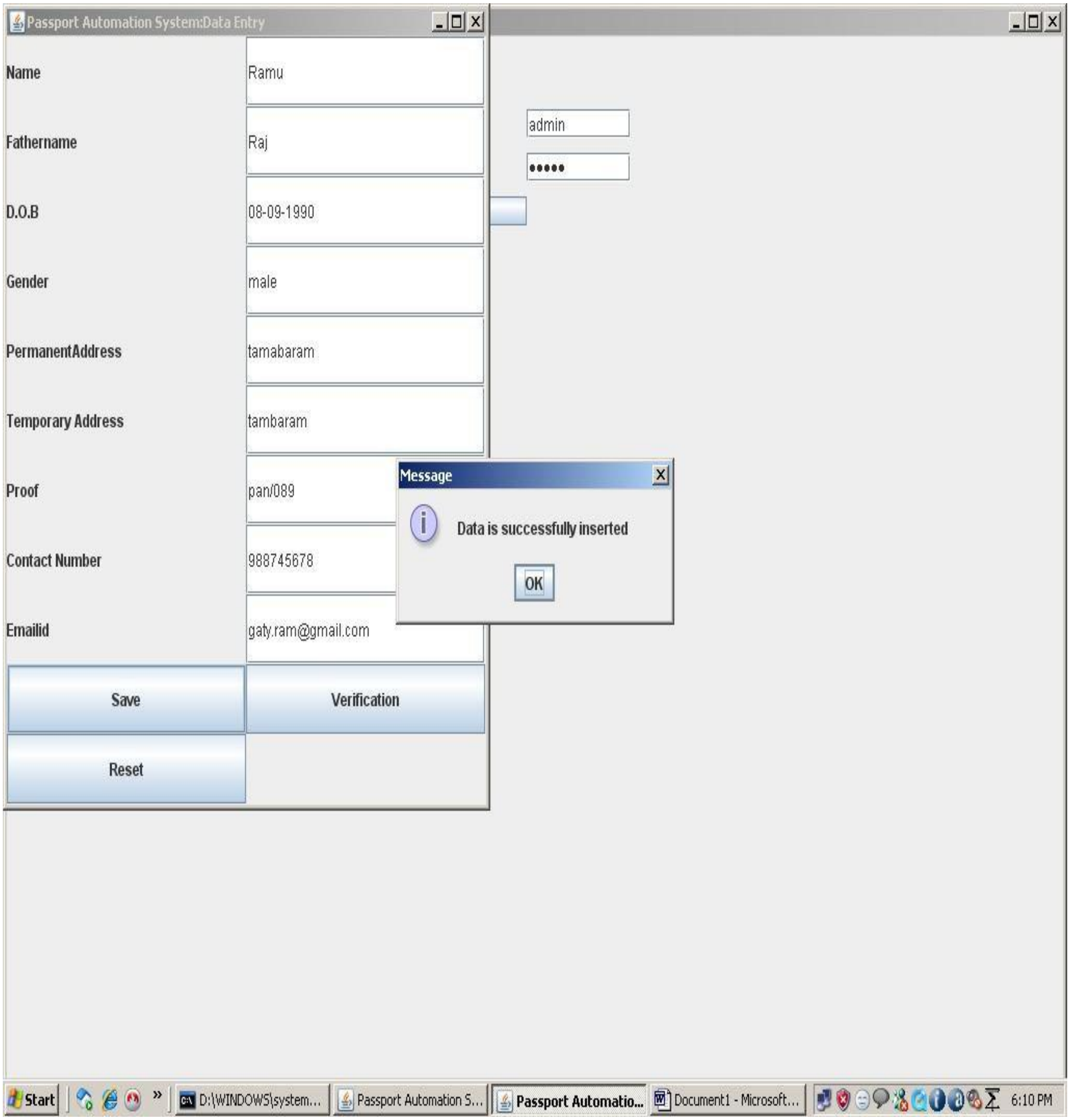


Passport Automation System

UserName: admin

Password: •••••

FORM 2



Passport Automation System:Data Entry

Name	Ramu
Fathername	Raj
D.O.B	08-09-1990
Gender	male
PermanentAddress	tamabaram
Temporary Address	tambaram
Proof	pan/089
Contact Number	988745678
Emailid	gaty.ram@gmail.com

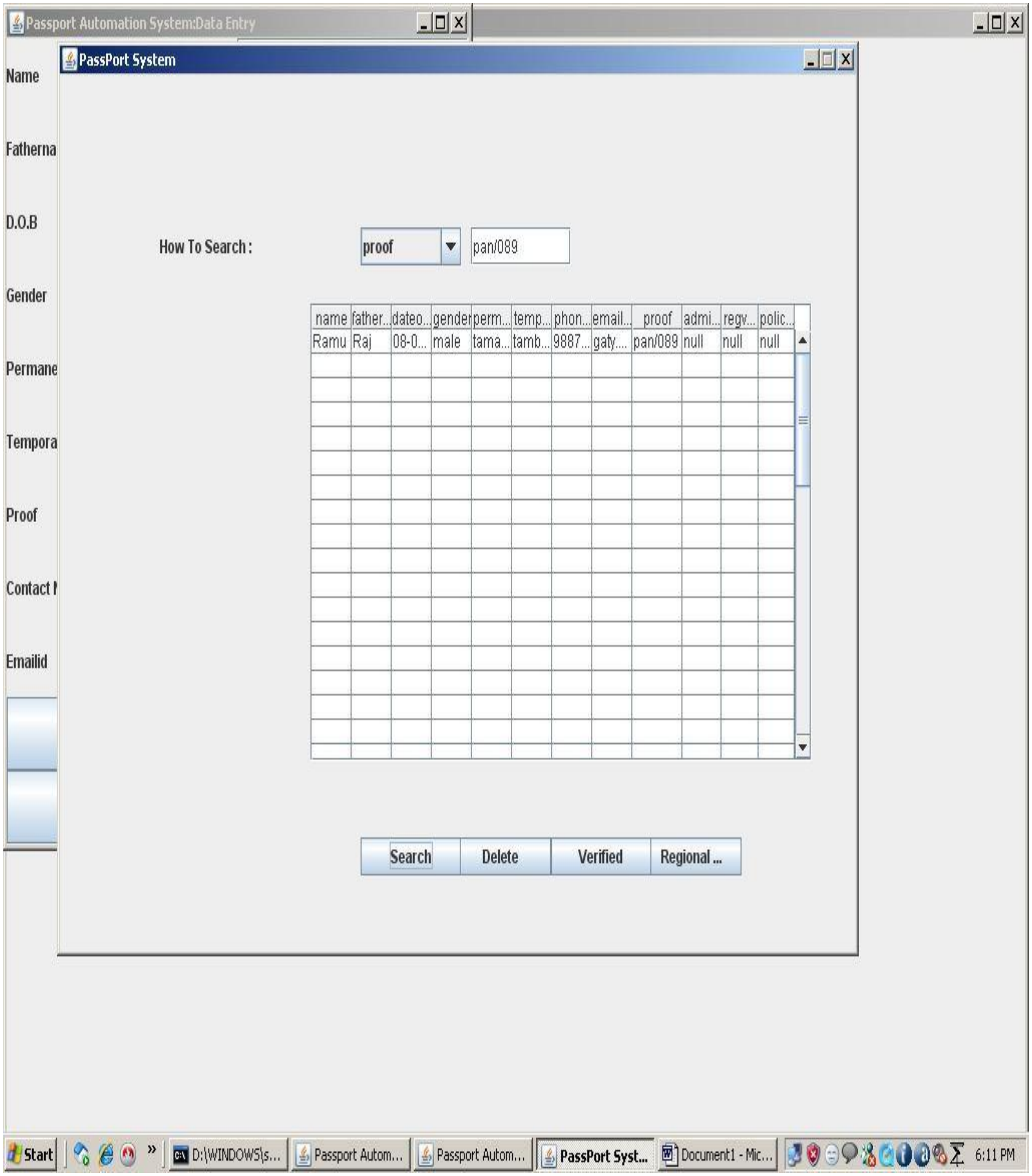
admin

•••••

Message

Data is successfully inserted

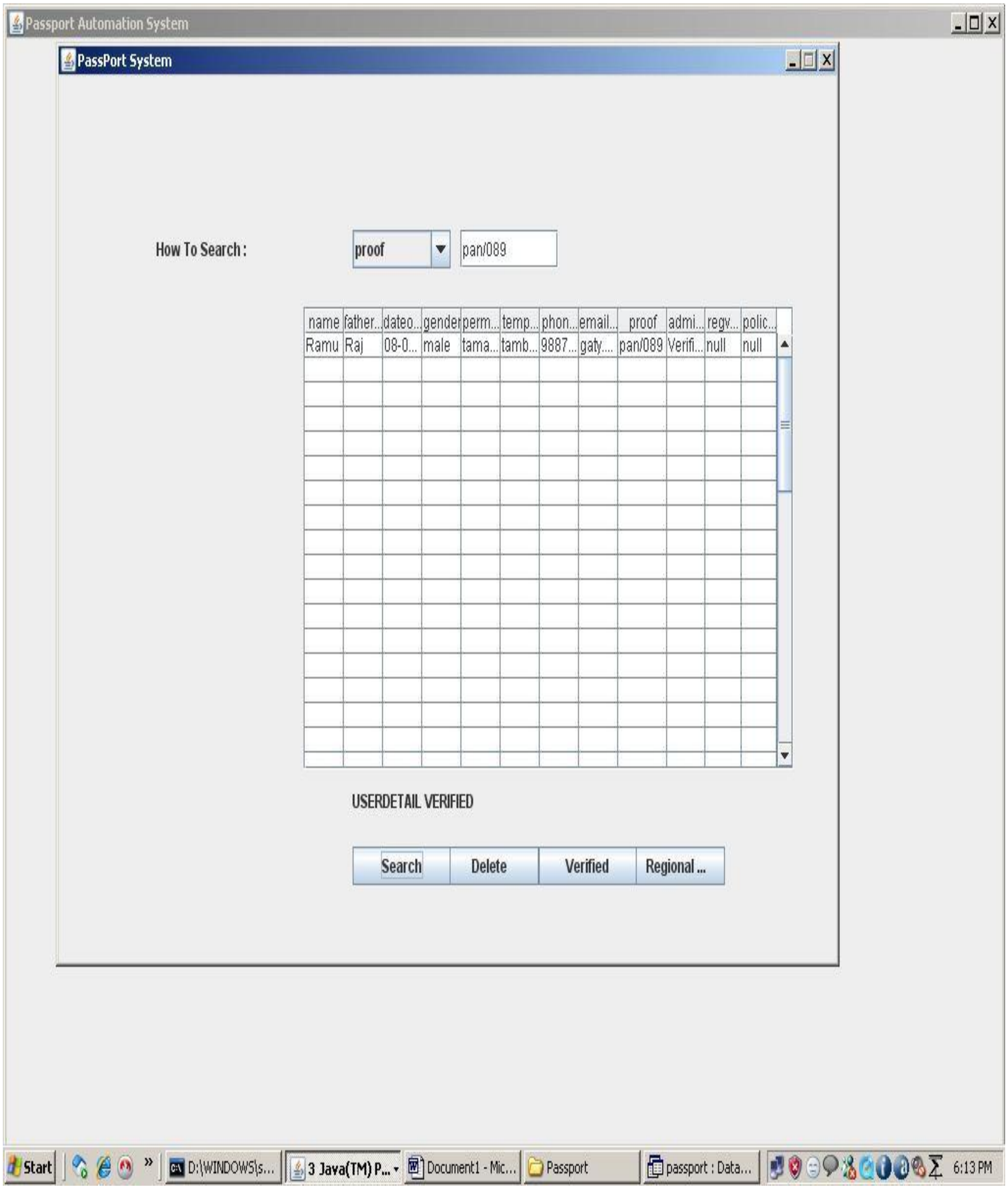
FORM 3



How To Search : proof pan/089

name	father...	dateo...	gender	perm...	temp...	phon...	email...	proof	admi...	regv...	polic...
Ramu	Raj	08-0...	male	tama...	tamb...	9887...	gaty....	pan/089	null	null	null

FORM 4

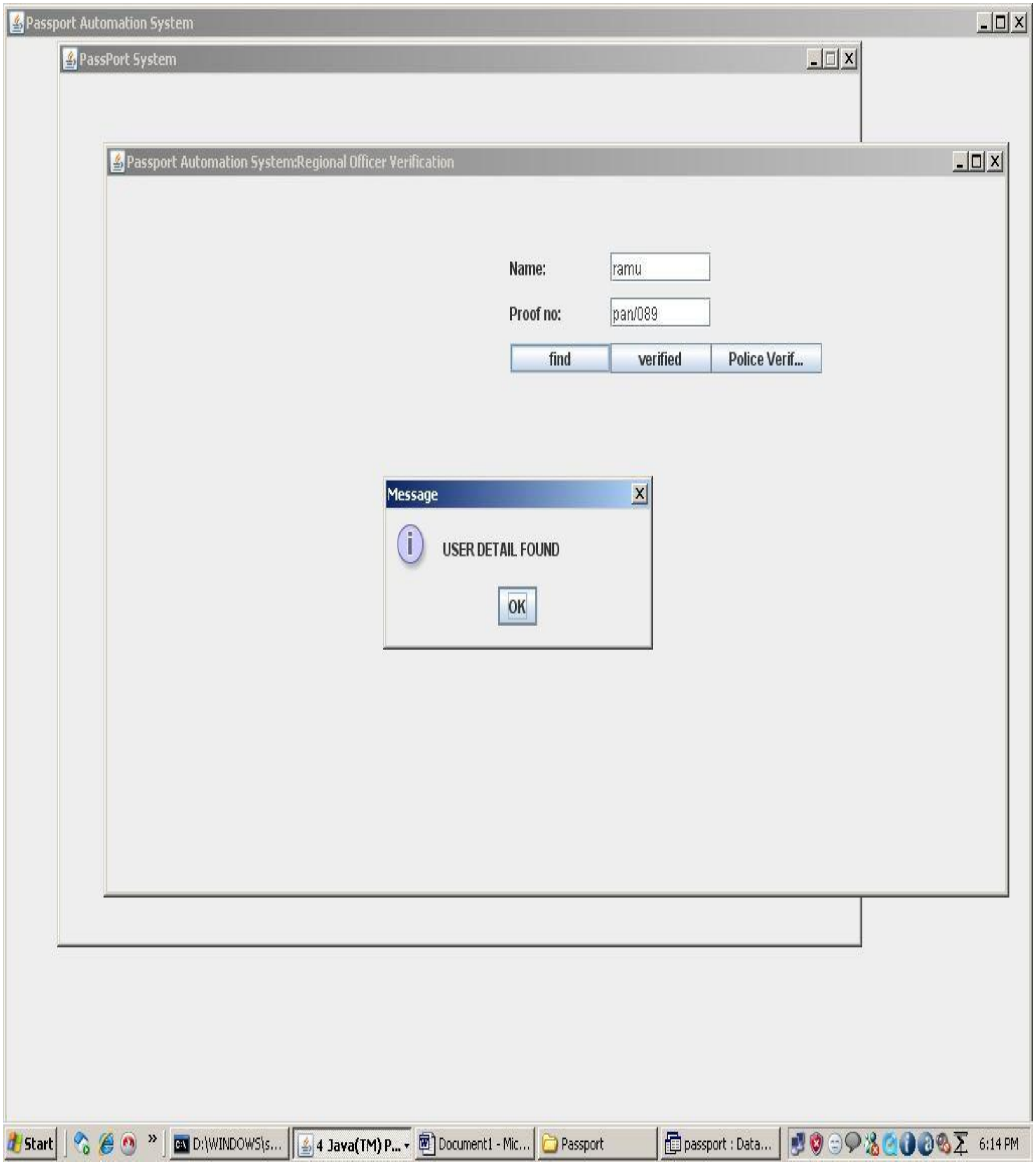


How To Search : proof pan/089

name	father...	dateo...	gender	perm...	temp...	phon...	email...	proof	admi...	regv...	polic...
Ramu	Raj	08-0...	male	tama...	tamb...	9887...	gaty....	pan/089	Verifi...	null	null

USERDETAIL VERIFIED

FORM 5



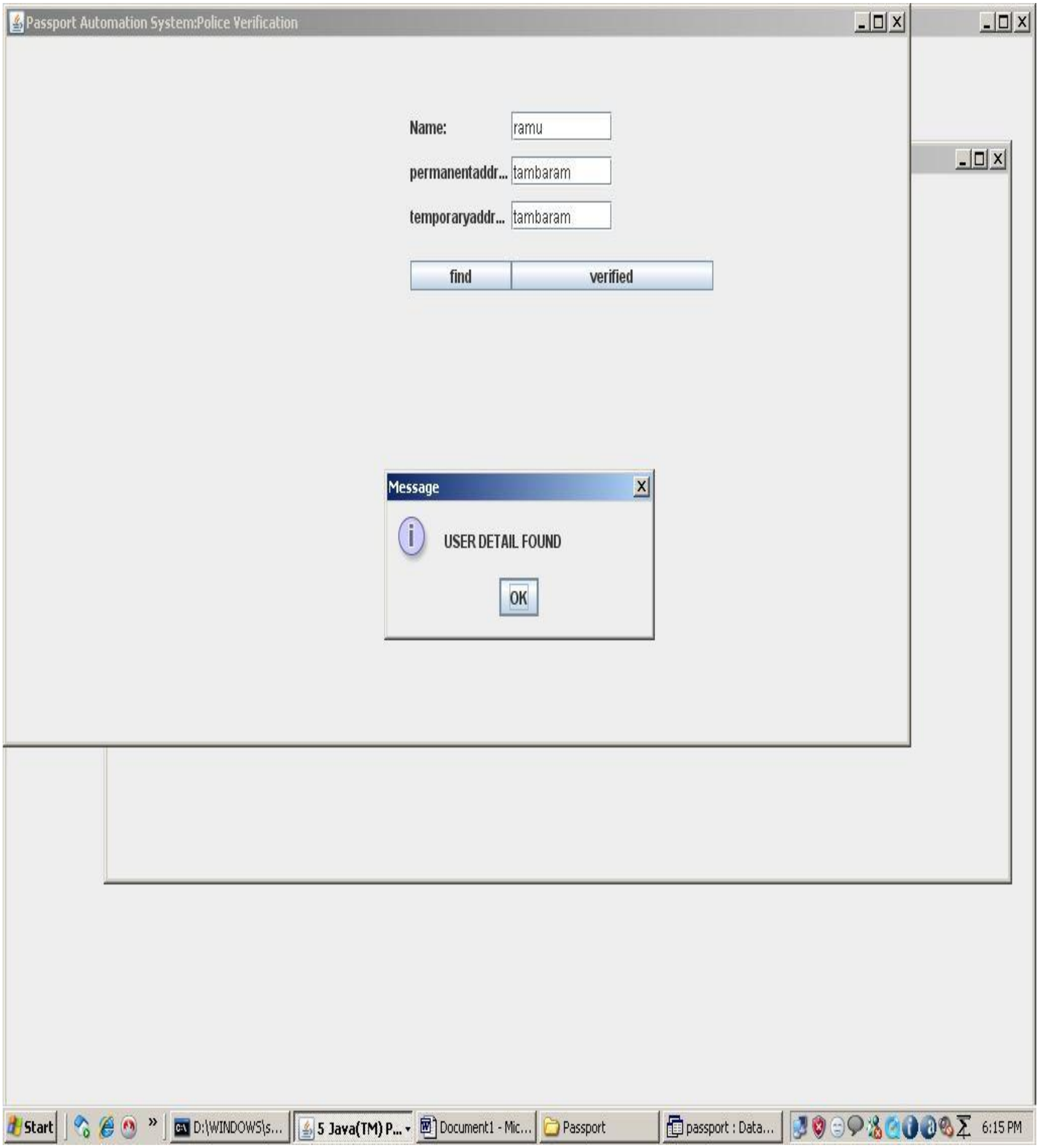
Passport Automation System
PassPort System
Passport Automation System:Regional Officer Verification

Name: ramu

Proof no: pan/089

USER DETAIL FOUND

FORM 6



Passport Automation System:Police Verification

Name: ramu

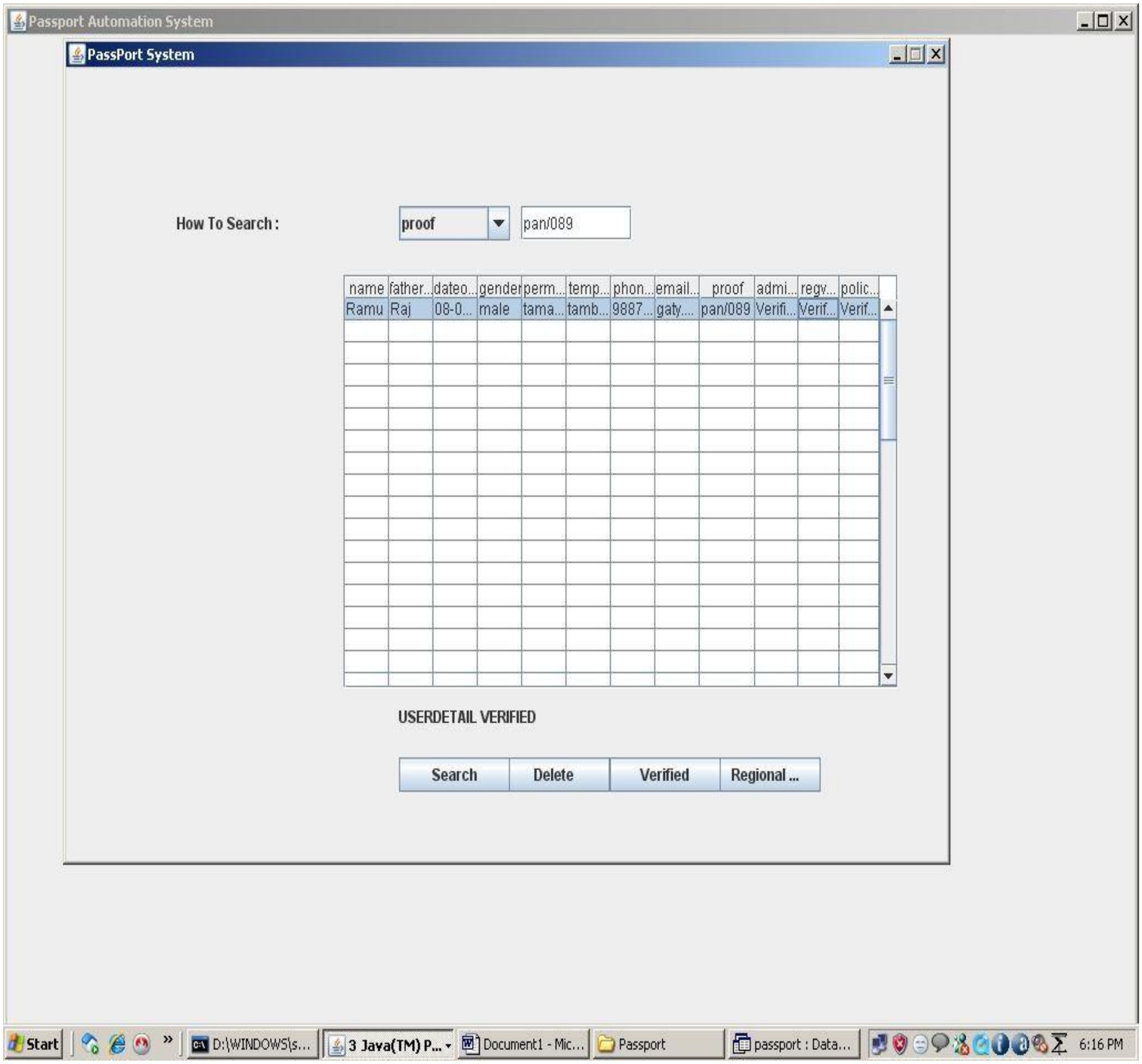
permanentaddr... tambaram

temporaryaddr... tambaram

Message

USER DETAIL FOUND

FORM 7



How To Search : proof pan/089

name	father...	dateo...	gender	perm...	temp...	phon...	email...	proof	admi...	regv...	polic...
Ramu	Raj	08-0...	male	tama...	tamb...	9887...	gaty....	pan/089	Verifi...	Verif...	Verif...

USERDETAIL VERIFIED

SOURCE CODE

LoginDemo.java \\LoginForm

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
class LoginDemo
{
JButton SUBMIT;
JFrame f;
JLabel label1,label2;
final JTextField text1;
final JPasswordField text2;
LoginDemo()
{
f=new JFrame();
f.getContentPane().setLayout(null);
label1 = new JLabel();
label1.setText("UserName:");
label1.setBounds(400,50,100,20);
```

```
text1 = new JTextField(25);
text1.setBounds(500,50,100,20);
label2 = new JLabel();
label2.setText("Password:");
label2.setBounds(400,80,100,20);
text2 = new JPasswordField(25);
text2.setBounds(500,80,100,20);
SUBMIT=new JButton("Login");
SUBMIT.setBounds(400,110,100,20);
// NEWUSER=new JButton("Create Account");
//NEWUSER.setBounds(500,110,200,20);
f.add(label1);
f.add(text1);
f.add(label2);
f.add(text2);
f.add(SUBMIT);
//f.add(NEWUSER);
f.setSize(1024,768);
f.setTitle("Passport Automation System");
f.setVisible(true);
SUBMIT.addActionListener(new ActionListener()
{
public void actionPerformed(ActionEvent ae)
{
String value1=text1.getText();
String value2=text2.getText();
String user1="";
String pass1="";
String user2="";
String pass2="";
try
{ Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection con = DriverManager.getConnection("Jdbc:Odbc:pass","","");
Statement st = con.createStatement();
ResultSet res = st.executeQuery("SELECT * FROM login where
username='"+value1+"' and password='"+value2+"'");
while (res.next())
{user1 = res.getString("username");
pass1 = res.getString("password");
}if(value1.equals(user2) && value2.equals(pass2))
{ JOptionPane.showMessageDialog(null,"Incorrect login or
password","Error",JOptionPane.ERROR_MESSAGE);
}else if(value1.equals(user1) && value2.equals(pass1))
{ CreateAccount acc=new CreateAccount();
acc.setTitle("Passport Automation System:Data Entry");
} else
{
JOptionPane.showMessageDialog(null,"Incorrect login or
password","Error",JOptionPane.ERROR_MESSAGE);
} }
catch(Exception e)
{
System.out.println(e.getMessage());
} } }); }
public static void main(String arg[])
{
LoginDemo frame=new LoginDemo();
}}
CreateAccount.java \\Data Entry Form
import javax.swing.*;
import java.awt.*;
import java.sql.*;
import java.awt.event.*;
import java.lang.String.*;
class CreateAccount extends JFrame
{
JTextField text1,text2,text3,text31,text4,text5,text6,text7,text8;
JLabel label1,label2,label3,label31,label4,label5,label6,label7,label8;
JPanel panel;
JButton button1,button2,button3;
String re=" ";
CreateAccount()
{
text1=new JTextField(15);
text2=new JTextField(15);
text3=new JTextField(15);
text31=new JTextField(15);
text4=new JTextField(15);
text5=new JTextField(15);
text6=new JTextField(15);
text7=new JTextField(15);
text8=new JTextField(15);
label1=new JLabel("Name");
label2=new JLabel("Fathername");
label3=new JLabel("D.O.B");
label31=new JLabel("Gender");
label4=new JLabel("PermanentAddress");
label5=new JLabel("Temporary Address");
label6=new JLabel("Proof");
```

```
label7=new JLabel("Contact Number");
label8=new JLabel("Emailid");
button1=new JButton("Save");
button2=new JButton("Verification");
button3=new JButton("Reset");
panel=new JPanel(new GridLayout(11,2));
panel.add(label1);
panel.add(text1);
panel.add(label2);
panel.add(text2);
panel.add(label3);
panel.add(text3);
panel.add(label31);
panel.add(text31);
panel.add(label4);
panel.add(text4);
panel.add(label5);
panel.add(text5);
panel.add(label6);
panel.add(text6);
panel.add(label7);
panel.add(text7);
panel.add(label8);
panel.add(text8);
panel.add(button1);
panel.add(button2);
panel.add(button3);
button1.addActionListener(new ActionListener()
{
public void actionPerformed(ActionEvent ae)
{
String value1=text1.getText();
String value2=text2.getText();
String value3=text3.getText();
String value31=text31.getText();
String value4=text4.getText();
String value5=text5.getText();
String value6=text6.getText();
String value7=text7.getText();
String value8=text8.getText();
try
{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection con = DriverManager.getConnection("Jdbc:Odbc:pass","","");
Statement st = con.createStatement();
int k=st.executeUpdate("insert into
userdetails(name,fathername,dateofbirth,gender,permanentaddress,temporaryaddre
ss,phoneno,emailid,proof)
values('"+value1+"','"+value2+"','"+value3+"','"+value31+"','"+value4+"','"+value5
+"','"+value7+"','"+value8+"','"+value6+"')");
JOptionPane.showMessageDialog(null,"Data is successfully inserted");
}
catch(Exception e)
{
System.out.println(e);
}
}
});
add(panel);
setSize(200,400);
setVisible(true);
button2.addActionListener(new ActionListener()
{
public void actionPerformed(ActionEvent ae)
{
if(ae.getSource()==button2)
{
a f2=new a();
f2.setSize(800,600);
f2.setTitle("Passport Administrator Verification");
f2.show();
}
else
{
}
}
});
button3.addActionListener(new ActionListener()
{
public void actionPerformed(ActionEvent ae)
{
text1.setText(re);
text2.setText(re);
text3.setText(re);
text31.setText(re);
text4.setText(re);
text5.setText(re);
text6.setText(re);
text7.setText(re);
text8.setText(re);
```

```
}
});
}
public static void main(String args[])
{
CreateAccount acc=new CreateAccount();
}
}
a.java \\ Passport adminstrator
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
class a extends JFrame implements ActionListener,ItemListener
{
JButton search,del,reg,verify;
JLabel name,find;
JComboBox list;
JTextField text;
Container con,con1;
String searchtext,searchfield,sql;
ResultSet rs;
ResultSet rs1;
JTable table;
Object rows[][];
int tval=0,tval1=0;
JScrollPane scrollPane;
String ver="Verified";
a()
{
con=getContentPane();
con.setLayout(null);
con1=getContentPane();
con1.setLayout(null);
rows=new Object[50][13];
Object headers[] =
{"name","fathername","dateofbirth","gender","permanentaddress","temporaryaddress","phoneno","emailid","proof","adminverify","regverify","policeverify"};
table = new JTable(rows, headers);
scrollPane = new JScrollPane(table);
scrollPane.setBounds(250,150,500,300);
scrollPane.setBackground(Color.WHITE);
```

```
con.add(scrollPane);
search=new JButton("Search");
search.setBounds(300,500,100,25);
con.add(search);
search.addActionListener(this);
del=new JButton("Delete");
del.setBounds(390,500,100,25);
con.add(del);
del.addActionListener(this);
verify=new JButton("Verified");
verify.setBounds(490,500,100,25);
con.add(verify);
verify.addActionListener(this);
reg=new JButton("Regional Verification");
reg.setBounds(580,500,100,25);
con.add(reg);
reg.addActionListener(this);
name=new JLabel("How To Search :");
name.setBounds(100,100,200,25);
con.add(name);
find=new JLabel("");
find.setBounds(300,450,350,40);
con.add(find);
text=new JTextField();
text.setBounds(410,100,100,25);
con1.add(text);
text.addActionListener(this);
list=new JComboBox();
list.setModel(new DefaultComboBoxModel(new String[] { "Select","proof" }));
list.setBounds(300,100,100,25);
con1.add(list);
list.addItemListener(this);
}
public void actionPerformed(ActionEvent ae)
{
```

```
if(ae.getSource()==text)
find.setText("");
if(ae.getSource()==del)
{
String getdel=JOptionPane.showInputDialog(search, "Enter the Proofno
","PassPort",1);
try{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection cntn3=DriverManager.getConnection("Jdbc:Odbc:pass","","");
Statement ste3=cntn3.createStatement();
ste3.executeUpdate("delete from userdetails where proof ='"+getdel+"'");
find.setText("USERDETAIL DELETED");
}
catch(Exception dele)
{
}
}
if(ae.getSource()==verify)
{
try{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection cntn3=DriverManager.getConnection("Jdbc:Odbc:pass","","");
Statement ste3=cntn3.createStatement();
String rt=text.getText();
ste3.executeUpdate("UPDATE userdetails SET adminverify='"+ver+"' where
proof='"+rt+"'");
find.setText("USERDETAIL VERIFIED");
}
catch(Exception dele)
{
}
}
if(ae.getSource()==reg)
{
try
{
b g2=new b();
g2.setTitle("Regional Officer Verification");
```

```
}
catch(Exception reg)
{
}
}
if(ae.getSource()==search)
{
if(searchfield==null)
find.setText("Please Select Search Category..,");
else
{
sql="select * from userdetails where ";
sql+=searchfield;
sql+="='"+text.getText()+"'";
System.out.println(sql); // the query for sql statement
try{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection cntn=DriverManager.getConnection("Jdbc:Odbc:pass","","");
Statement ste1=cntn.createStatement();
rs1=ste1.executeQuery(sql);
tval=0;
while(rs1.next())
{
table.setValueAt(""+rs1.getString(1),tval,0);
table.setValueAt(""+rs1.getString(2),tval,1);
table.setValueAt(""+rs1.getString(3),tval,2);
table.setValueAt(""+rs1.getString(4),tval,3);
table.setValueAt(""+rs1.getString(5),tval,4);
table.setValueAt(""+rs1.getString(6),tval,5);
table.setValueAt(""+rs1.getString(7),tval,6);
table.setValueAt(""+rs1.getString(8),tval,7);
table.setValueAt(""+rs1.getString(9),tval,8);
table.setValueAt(""+rs1.getString(10),tval,9);
table.setValueAt(""+rs1.getString(11),tval,10);
table.setValueAt(""+rs1.getString(12),tval,11);
tval++;
}
if(tval==0)
find.setText("Details Not Availabel( "+searchfield+" : "+text.getText()+" )\n Tri
Again...,");
}
catch(Exception e)
{
JOptionPane.showMessageDialog(search,"Sorry,DataBase Problem,","PassPort
System,",JOptionPane.INFORMATION_MESSAGE);
}
}
}
}
public void itemStateChanged(ItemEvent ie)
{
find.setText("");
text.setText("");
list.removeItem("Select");
for(int i=0;i<tval;i++)
{
table.setValueAt("",i,0);
//table.setValueAt("",i,1);
//table.setValueAt("",i,2);
}
searchfield=""+ie.getItem();
setSize(800,600);
setTitle("PassPort System");
setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
setVisible(true);
setResizable(false);
}
public static void main(String[] argv)
{
a f2=new a();
}
}
```

b.java \\Regional officer form

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
class b extends JFrame implements ActionListener
{
JButton SUBMIT,verify,police;
JFrame f;
JLabel label1,label2;
final JTextField text1, text2;
b()
{
```

```
f=new JFrame();
f.getContentPane().setLayout(null);
label1 = new JLabel();
label1.setText("Name:");
label1.setBounds(400,50,100,20);
text1 = new JTextField(25);
text1.setBounds(500,50,100,20);
label2 = new JLabel();
label2.setText("Proof no:");
label2.setBounds(400,80,100,20);
text2 = new JTextField(25);
text2.setBounds(500,80,100,20);
SUBMIT=new JButton("find");
SUBMIT.setBounds(400,110,100,20);
verify=new JButton("verified");
verify.setBounds(500,110,100,20);
police=new JButton("Police Verification");
police.setBounds(600,110,110,20);
police.addActionListener(this);
f.add(label1);
f.add(text1);
f.add(label2);
f.add(text2);
f.add(SUBMIT);
f.add(verify);
f.add(police);
f.setTitle("Passport Automation System:Regional Officer Verification");
f.setSize(900,500);
f.setVisible(true);
SUBMIT.addActionListener(new ActionListener()
{
public void actionPerformed(ActionEvent ae)
{
String value1=text1.getText();
String value2=text2.getText();
String user1="";
String pass1="";
String user2="";
String pass2="";
String ver="Verified";
try
{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection con = DriverManager.getConnection("Jdbc:Odbc:pass","","");
Statement st = con.createStatement();
ResultSet res = st.executeQuery("SELECT * FROM RegionalDatabase where
Name='"+value1+"' and Proof='"+value2+"'");
while (res.next())
{
user1 = res.getString("Name");
pass1 = res.getString("Proof");
}
if(value1.equals(user2) && value2.equals(pass2))
{
JOptionPane.showMessageDialog(null,"Type the name and
Proof","Error",JOptionPane.ERROR_MESSAGE);
}
else if(value1.equals(user1) && value2.equals(pass1))
{
JOptionPane.showMessageDialog(null,"USER DETAIL FOUND");
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection con2 = DriverManager.getConnection("Jdbc:Odbc:pass","","");
Statement st2 = con2.createStatement();
ResultSet res2 = st2.executeQuery("UPDATE userdetails SET regverify='"+ver+"'
where name='"+value1+"' and Proof='"+value2+"'");
}
else
{
JOptionPane.showMessageDialog(null,"DETAILS NOT
FOUND","Error",JOptionPane.ERROR_MESSAGE);
}
}
catch(Exception e)
{
// System.out.println(e.getMessage());
}
}
});
}
public void actionPerformed(ActionEvent ae)
{
if(ae.getSource()==police)
{
try
{
c g3=new c();
}
```

```
catch(Exception police)
{
}
}
}
public static void main(String arg[])
{
b g2=new b();
}
}
```

c.java \\Police Verification Form

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
class c
{
JButton SUBMIT,verify;
JFrame f;
JLabel label1,label2,label3;
final JTextField text1, text2,text3;
c()
{
f=new JFrame();
f.getContentPane().setLayout(null);
label1 = new JLabel();
label1.setText("Name:");
label1.setBounds(400,50,100,20);
text1 = new JTextField(25);
text1.setBounds(500,50,100,20);
label2 = new JLabel();
label2.setText("permanentaddress");
label2.setBounds(400,80,100,20);
text2 = new JTextField(25);
text2.setBounds(500,80,100,20);
label3 = new JLabel();
label3.setText("temporaryaddress");
label3.setBounds(400,110,100,20);
text3 = new JTextField(25);
text3.setBounds(500,110,100,20);
```

```
SUBMIT=new JButton("find");
SUBMIT.setBounds(400,150,100,20);
verify=new JButton("verified");
verify.setBounds(500,150,200,20);
f.add(label1);
f.add(text1);
f.add(label2);
f.add(text2);
f.add(label3);
f.add(text3);
f.add(SUBMIT);
f.add(verify);
f.setTitle("Passport Automation System:Police Verification");
f.setSize(900,500);
f.setVisible(true);
SUBMIT.addActionListener(new ActionListener()
{
public void actionPerformed(ActionEvent ae)
{
String value1=text1.getText();
String value2=text2.getText();
String value3=text3.getText();
String user1="";
String pass1="";
String pass3="";
String user2="";
String pass2="";
String pass4="";
String ver="Verified";
try
{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection con = DriverManager.getConnection("Jdbc:Odbc:pass","","");
Statement st = con.createStatement();
ResultSet res = st.executeQuery("SELECT * FROM PoliceDb where
Name='"+value1+"' and permanentaddress='"+value2+"' and
temporaryaddress='"+value3+"'");
while (res.next())
{
user1 = res.getString("Name");
pass1 = res.getString("permanentaddress");
pass3 =res.getString("temporaryaddress");
}
if(value1.equals(user2) && value2.equals(pass2) && value3.equals(pass4) )
{
```

```
JOptionPane.showMessageDialog(null,"Type the name and
Proof","Error",JOptionPane.ERROR_MESSAGE);
}
else if(value1.equals(user1) && value2.equals(pass1) && value3.equals(pass3))
{
JOptionPane.showMessageDialog(null,"USER DETAIL FOUND");
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection con2 = DriverManager.getConnection("Jdbc:Odbc:pass","","");
Statement st2 = con2.createStatement();
ResultSet res2 = st2.executeQuery("UPDATE userdetails SET
policeverify='"+ver+"' where name='"+value1+"' and
permanentaddress='"+value2+"' and temporaryaddress='"+value3+"'");
}
else
{
JOptionPane.showMessageDialog(null,"DETAILS NOT
FOUND","Error",JOptionPane.ERROR_MESSAGE);
}
}
catch(Exception e)
{
// System.out.println(e.getMessage());
}
}
});
}
public static void main(String arg[])
{ c g3=new c();}}
```

RESULT:

Thus the project to implement Passport Automation System using java has been successfully designed.