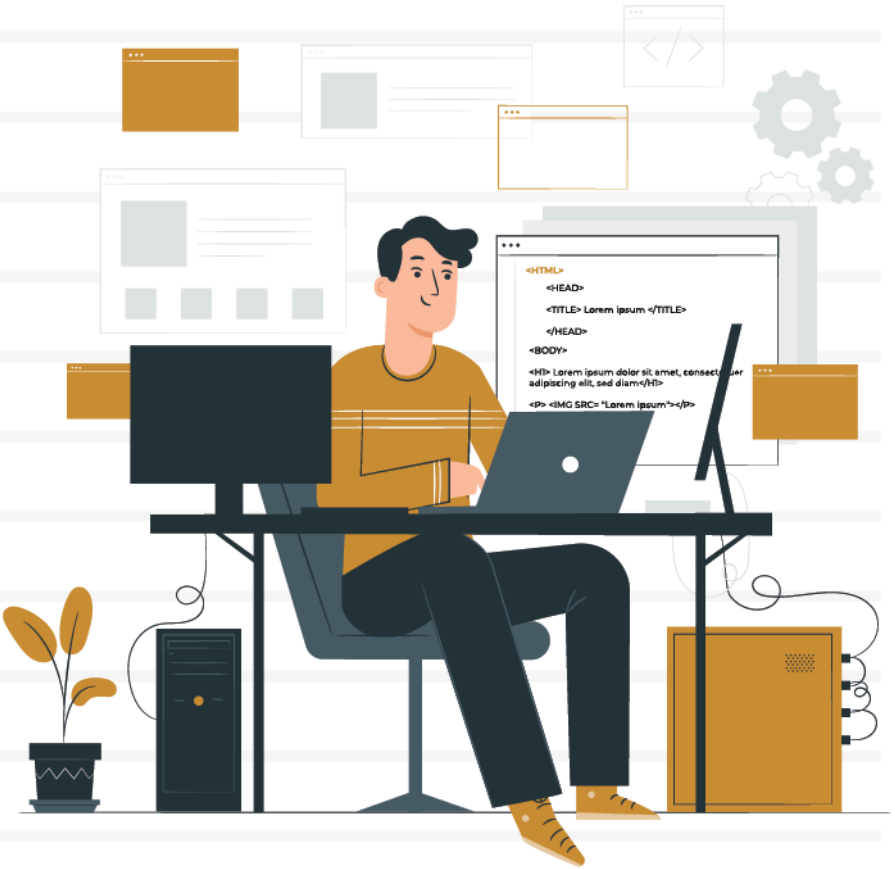
SUNSTONE

Experiment 1

Lab Manual



Exp. 1 Passport Automation System

Lab 1 Objectives:

- To create an automated system to perform the Passport Process.

Problem Statement:

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

SOFTWARE REQUIREMENT SPECIFICATION

1. **SOFTWARE INTERFACE**
   - Front End Client - The applicant and Administrator online interface is built using JSP and HTML. The Administrators' local interface is built using Java.
   - Web Server - Glassfish application server(Oracle Corporation).
   - Back End - Oracle database.
2. **HARDWARE INTERFACE**
   - The server is directly connected to the client systems. The client systems have access to the database in the server.

1. USE CASE DIAGRAM :

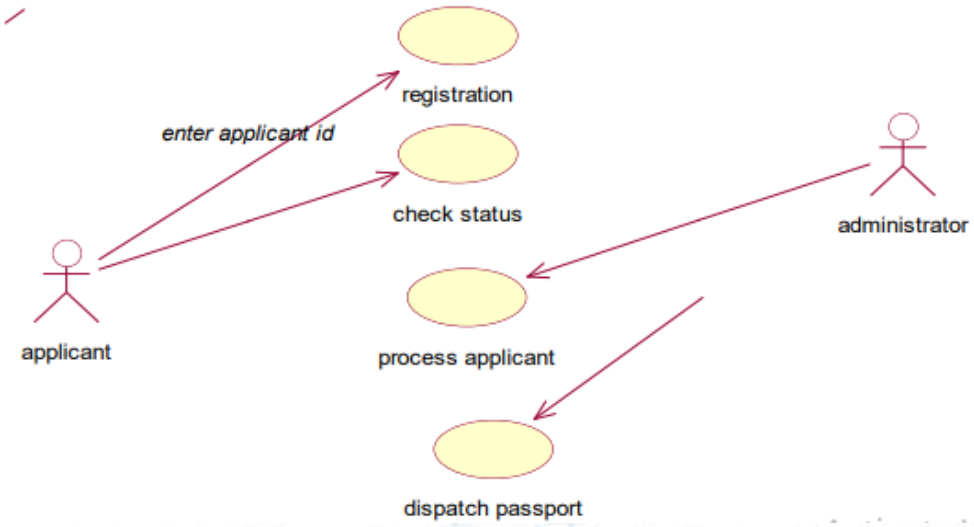


Fig 1.1. use case diagram for passport automation system

2. ACTIVITY DIAGRAM :

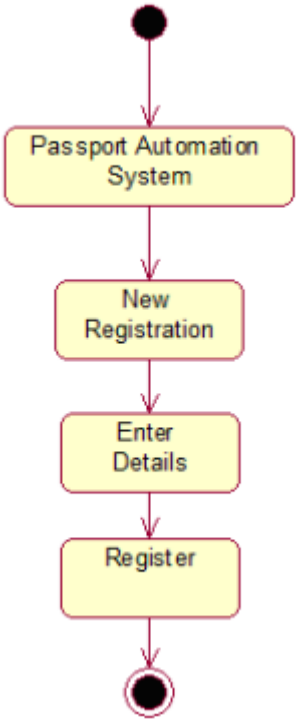


Fig 1.2. Activity diagram for Register

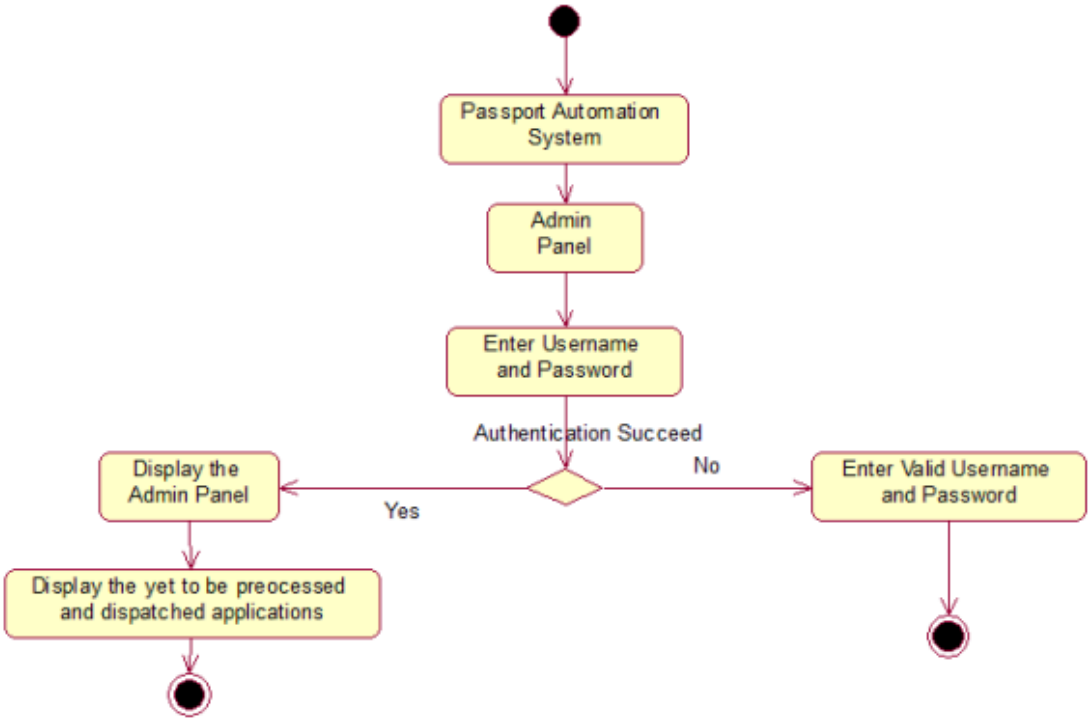


Fig 1.3. Activity diagram for Administration

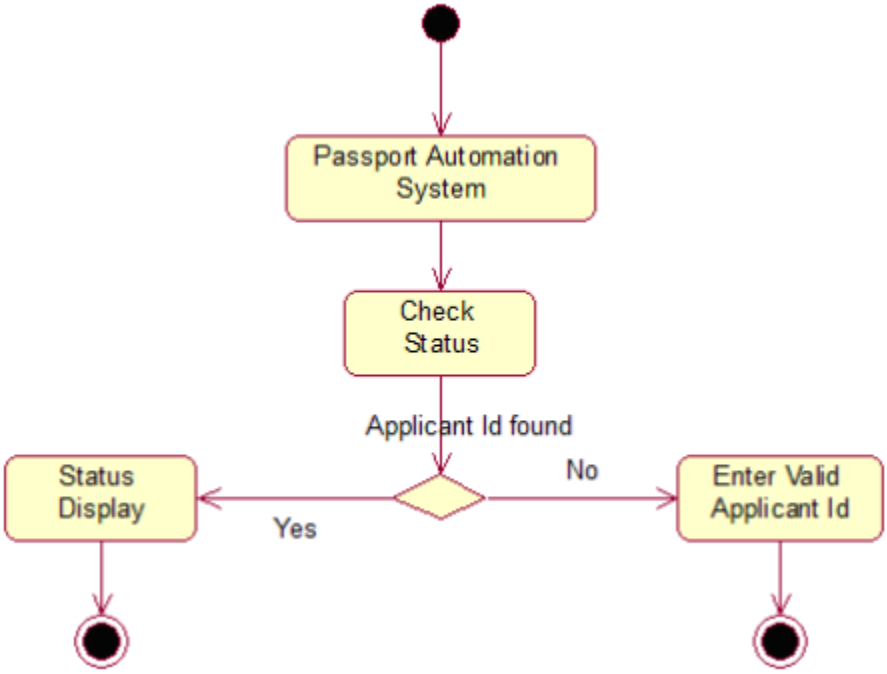


Fig 1.4. Activity diagram for checking status

3. CLASS DIAGRAM:

The class diagram, also referred to as object modeling, is the main static analysis diagram. The main task of object modeling is to graphically show what each object will do in the problem domain. The problem domain describes the structure and the relationships among objects.

The Passport Automation system class diagram consists of four classes Passport Automation System

1. New registration
2. Gender
3. Application Status
4. Admin authentication
5. Admin Panel

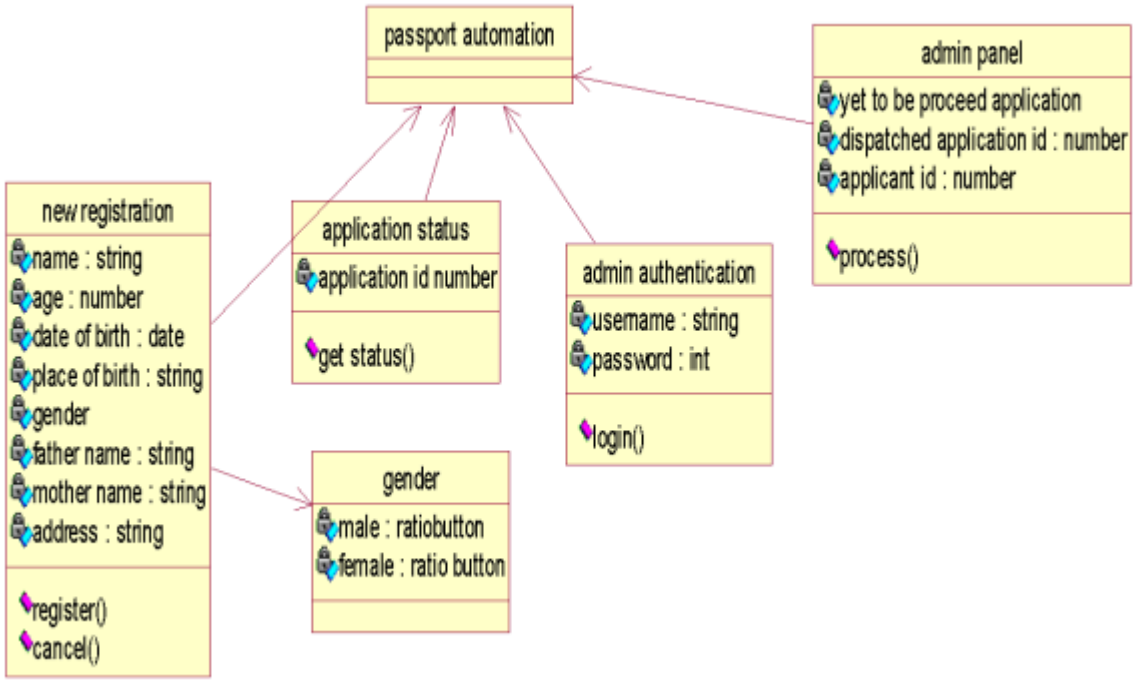


Fig 1.5. Class Diagram for Passport Automation System

4. DEPLOYMENT DIAGRAM AND COMPONENT DIAGRAM

Deployment diagrams are used to visualize the topology of the physical components of a system where the software components are deployed.

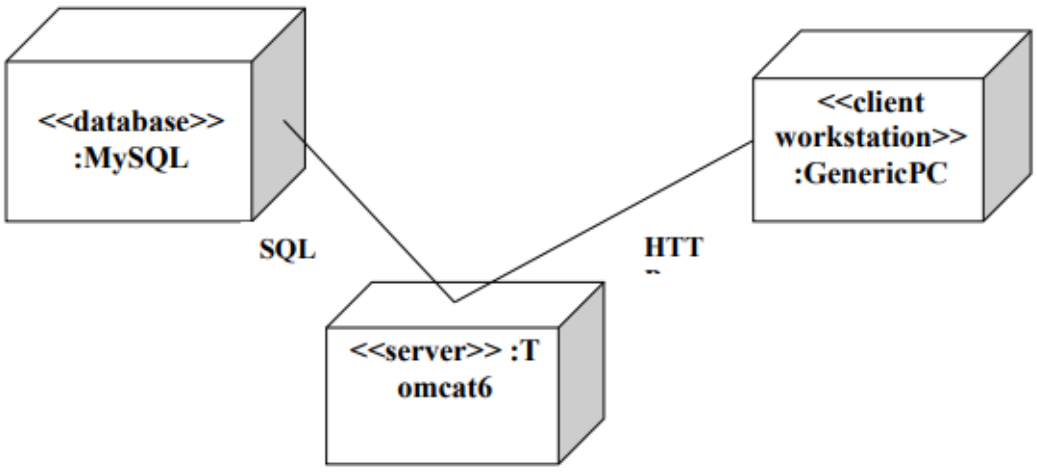


Fig 1.6. Deployment Diagram for Passport Automation System

5. COMPONENT DIAGRAM

Component diagrams are used to visualize the organization and relationship among components in a system.

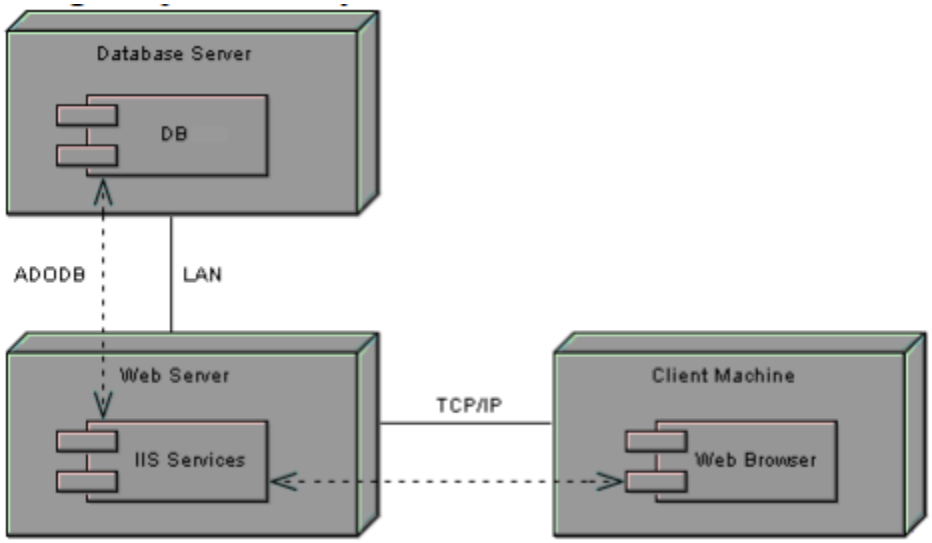


Fig 1.7. Deployment Diagram for Passport Automation System

RESULT:

Thus the mini project for the passport automation system has been successfully executed and codes are generated.