A MINI PROJECT REPORT ON

ONLINE BUS RESERVATION SYSTEM

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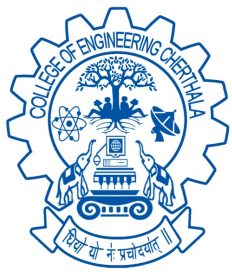

C E R T I F I C A T E

This is to certify that, the seminar report titled ***ONLINE BUS RESERVATION SYSTEM*** ,is a bonafide record of the **CS333 mini Project** presented by **LAKSHMIPRIYA R** (CEC17CS035) , **PAVIZHAM ANTONY** (CEC17CS046) , **SALU KL** (CEC17CS048), **SANDRA JOHN** (CEC17CS050). Fifth Semester B. Tech. Computer Science & Engineering students, under our guidance and supervision, in partial fulfillment of the requirements for the award of the degree, **B. Tech. Computer Science & Engineering** of **APJ Abdul Kalam Technological University**.

Co-ordinator **HoD**

Mrs. Jisy Raju **Dr. Preetha Theresa Joy**

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ABSTRACT

The proposed project is a online bus reservation system that provides that allows the users to reserve bus tickets online and search the buses available digitally.

Online bus reservation system is a project which provides a portal for bus ticket reservation. This application allows users to book bus tickets from anywhere and anytime. The user can easily book their tickets and cancel tickets. The user can view all the details of the website, bus, and drive. The user can also view the details of the journey and the details of the journey timings.

This is a web based application that overcomes the issues of traditional method of booking and managing tickets for the bus while travelling and this application allows to reserve tickets digitally through the application and hence reserve tickets according to the users convenience by searching for the destinations. The task sometimes becomes very tedious for the officials as well as the users if they are making the booking directly . Hence this project offers an effective solution where users can view various booking slots available and select the preferred date and time.

key features: netbeans, sql,java.

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Chapter 1

INTRODUCTION

Currently, the type of system being used at the counter is an internal system which is manually used in selling the bus tickets. The problems facing the company are that customers have to go to the counter to buy bus ticket or ask for bus schedule, customers will also have to queue up for a long time in order to secure a bus ticket and will also need to pay cash when they buy the bus ticket.

In the existing system, all the booking process and the maintenance of the records is done manually. users who are interested in inquiring about the bus type, tickets price, available seats, facility of the bus etc. have to walk to the booking office. This creates a lot of time waste for the users.

In the age of science and technology and internet at the tip of our hands an application for the bus reservation digitally will be efficient and reduces the discreptancies and inefficient method of direct booking. It actually reduces the manual efforts required while travellig and hence provide a convenient method for the users for booking by searching the destinations, timings, routes and so on.

Chapter 2

SYSTEM DESIGN

2.1 ER DIAGRAM

Database is absolutely an integral part of software systems. To fully utilize ER Diagram in database engineering guarantees you to produce high-quality database design to use in database creation, management, and maintenance. An ER model also provides a means for communication.

An entity-relationship diagram (ERD) is a data modeling technique that graphically illustrates an information system's entities and the relationships between those entities.In this diagram 1NF normalisation is used.

The ER or (Entity Relational Model) is a high-level conceptual data model diagram. Entity-Relation model is based on the notion of real-world entities and the relationship between them.

ER modeling helps you to analyze data requirements systematically to produce a well-designed database. So, it is considered a best practice to complete ER modeling before implementing your database.

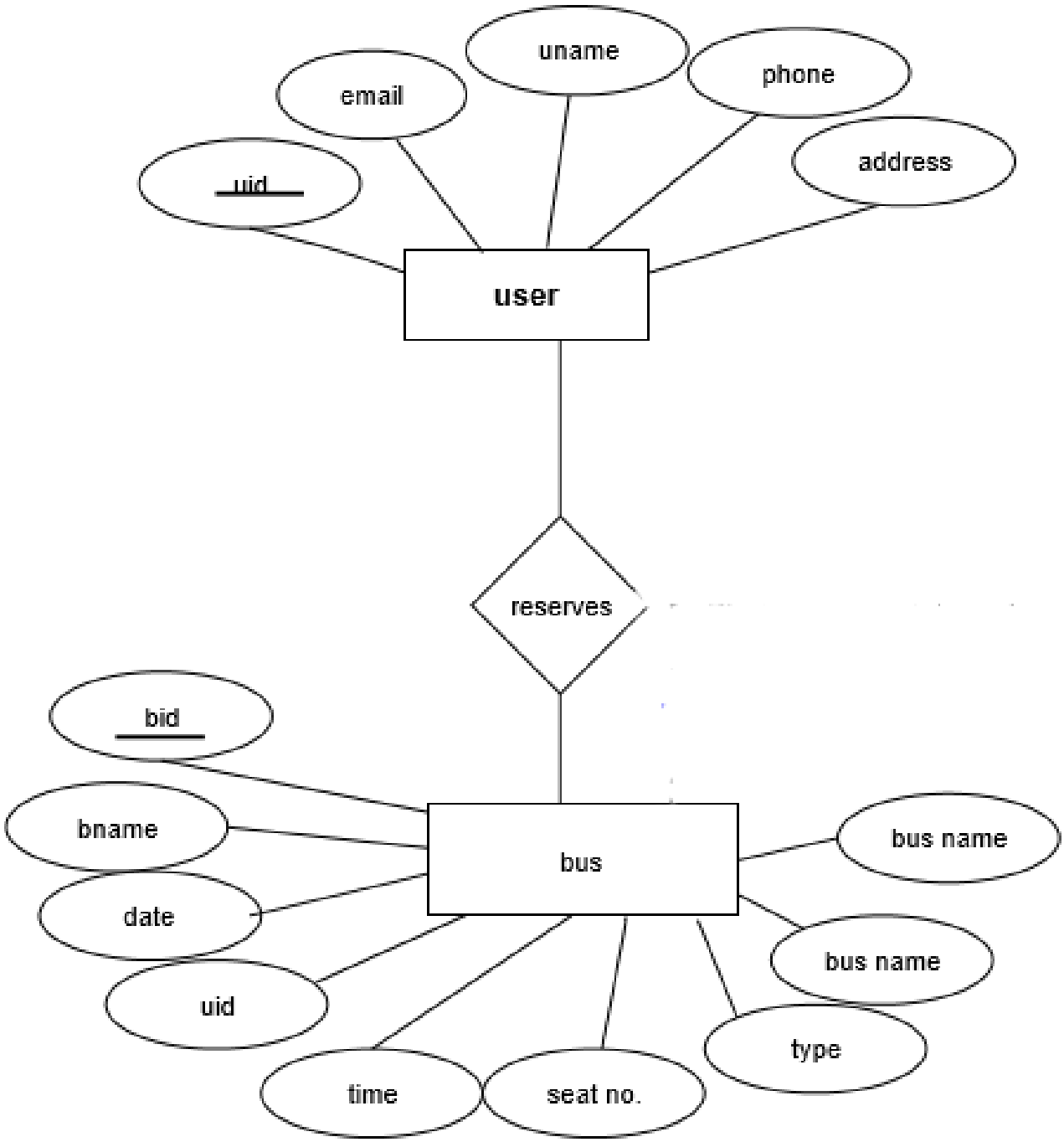

Fig. 2.1: ER Diagram

2.2 UML DIAGRAM

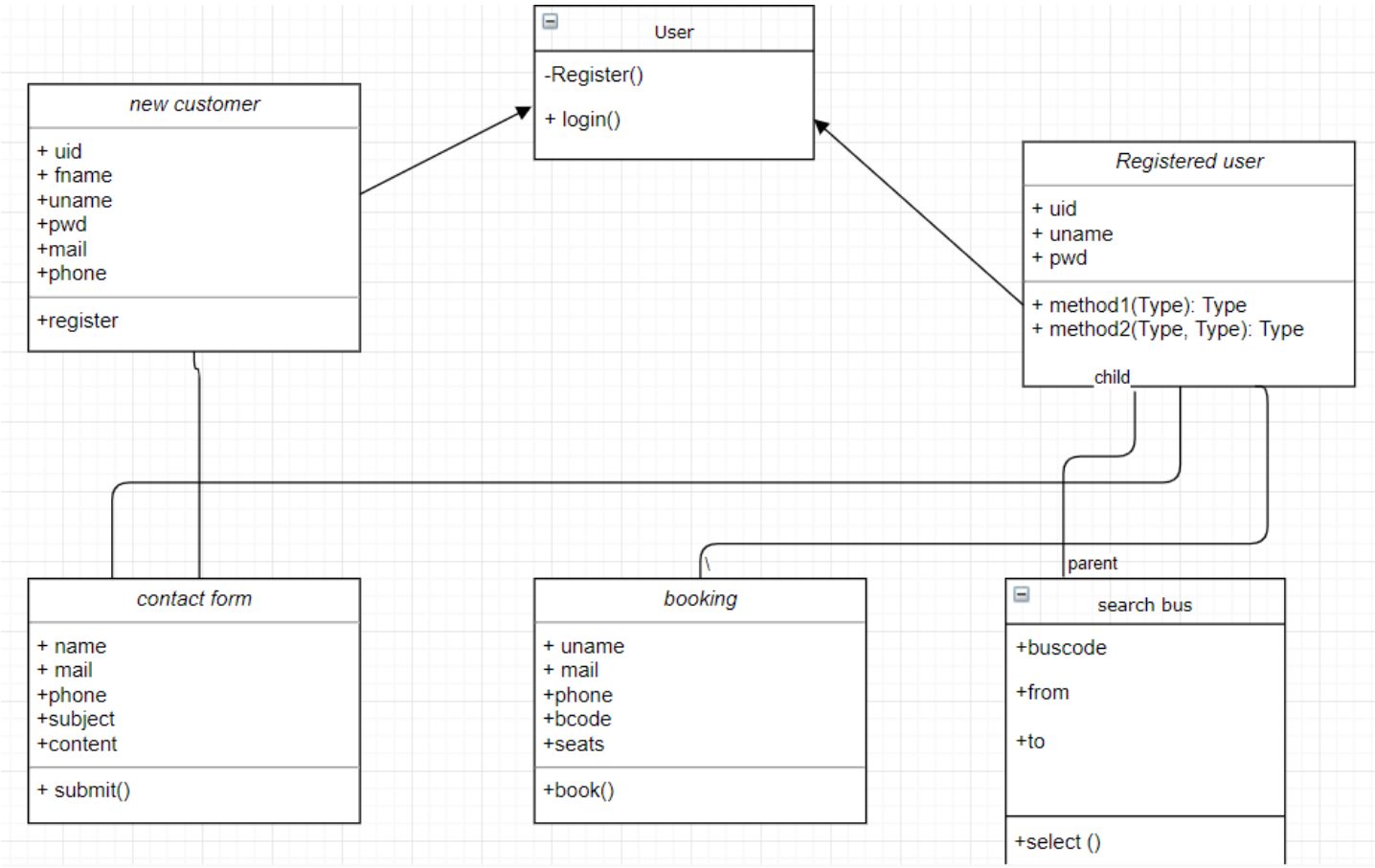

Fig. 2.2: UML Diagram

The UML diagram shows the how the system works.It helps in making appoinments with the doctor easily.A UML diagram is a diagram based on the UML (Unified Modeling Language) with the purpose of visually representing a system along with its main actors, roles, actions, artifacts or classes, in order to better understand, alter, maintain, or document information about the system.

2.3 USE CASE DIAGRAM

case.png

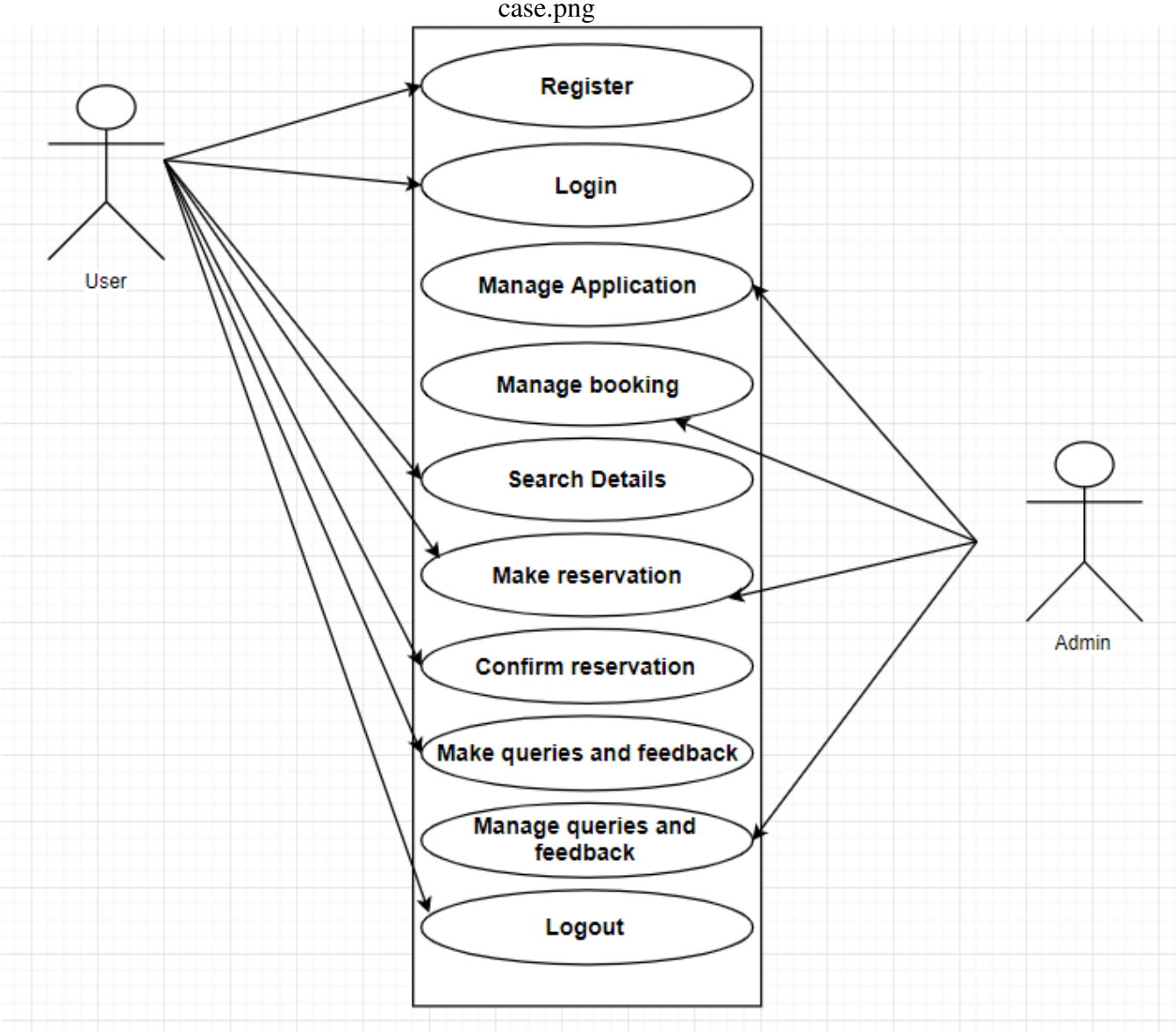

Fig. 2.3: USE CASE DIAGRAM

use case diagram is the primary form of system/software requirements for a new software program underdeveloped. Use cases specify the expected behavior (what), and not the exact method of making it happen (how). Use cases once specified can be denoted both textual and visual representation (i.e. use case diagram). A key concept of use case modeling is that it helps us design a system from the end user's perspective. It is an effective technique

for communicating system behavior in the user's terms by specifying all externally visible system behavior.

The purpose of use case diagram is to capture the dynamic aspect of a system. However, this definition is too generic to describe the purpose, as other four diagrams (activity, sequence, collaboration, and Statechart) also have the same purpose. We will look into some specific purpose, which will distinguish it from other four diagrams.

Use case diagrams are used to gather the requirements of a system including internal and external influences. These requirements are mostly design requirements. Hence, when a system is analyzed to gather its functionalities, use cases are prepared and actors are identified.

Chapter 3

PROPSED SYSTEM

3.1 Modules of Proposed Application

3.1.1 ADMIN

Admin needs not login with username and password and in the admin home screen, he can see the basic functionalities of admin. Admin can view the details about the registered users and there login details. the admins are the ones who update the users with the bus availablities. They can view the details about the bookings made and will update the searchings as required.They maintains the databases and controls the site. They also respond to the requests ,queries and feedbacks made by the users through the contact form.

Admin maintains all the bus information and also maintain bus category and comments. Admin maintains the reg category and details, manages news, generates reports and manages the whole system

3.1.2 USERS

The user needs to be registered and then log in. after logging on he can search for the prefered destinations from the search options and can book the bus from the available and preferred options by providing the code and the necessary details. after booking a confirmation page will be provided. The users can also give queries, feedbacks and requests through contact form.The user can view all the details of the application and also search the bus

3.2 Features of this Application

- **This system helps to reduce the waiting time for the user**
- **User can select the bus according to his preference.**
- **easy to operate**
- **Lower maintenance cost.**
- **Less time-consuming.**

3.3 DETAILS ABOUT GUI

- **first home page consists of registration and login form links where only registered users can access booking and searching facilities.**

after registering and login leads to another page where searching destination facilities are available and the display occurs. where it leads to booking the bus

- **only the valid code allows booking or reservations and confirmation page is provided if it is successfull.**
- **contact form allows queries and feedbacks. While about page just shows the overview and offer page updates the users with notifications.**

3.4 GUI SCREENSHOTS

Screenshots include just a wireframe of how our proposed system looks like.

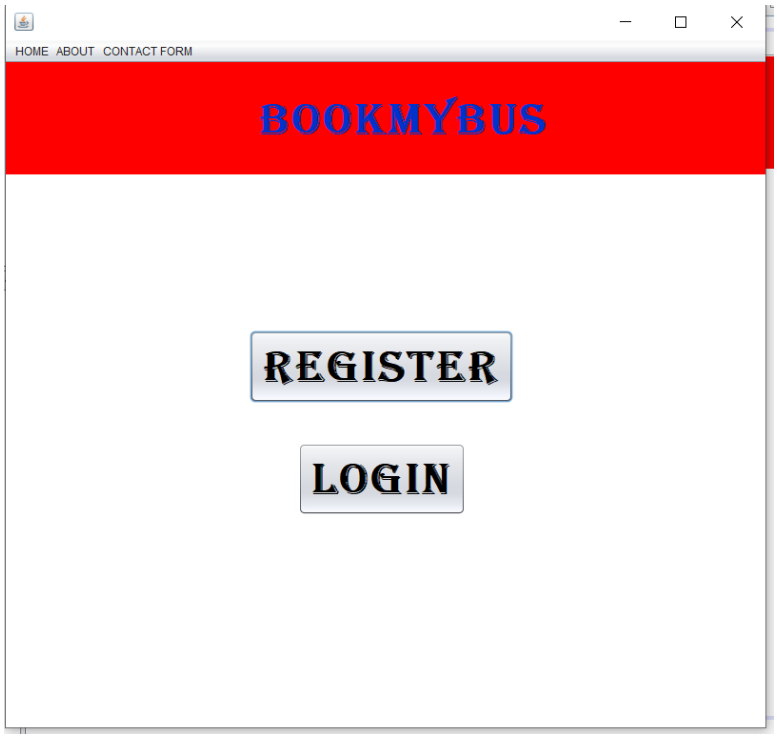

Fig. 3.1: home page

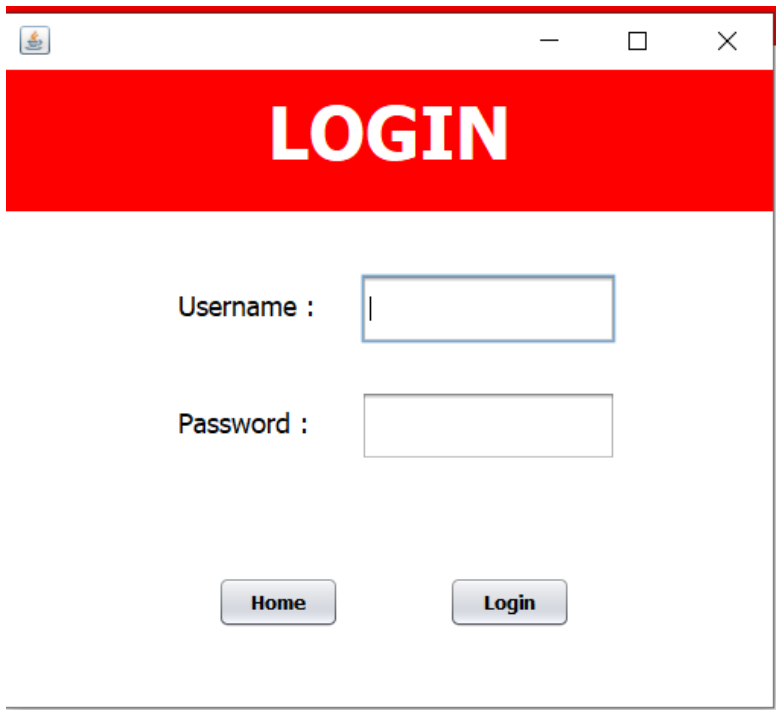

Fig. 3.2: login page

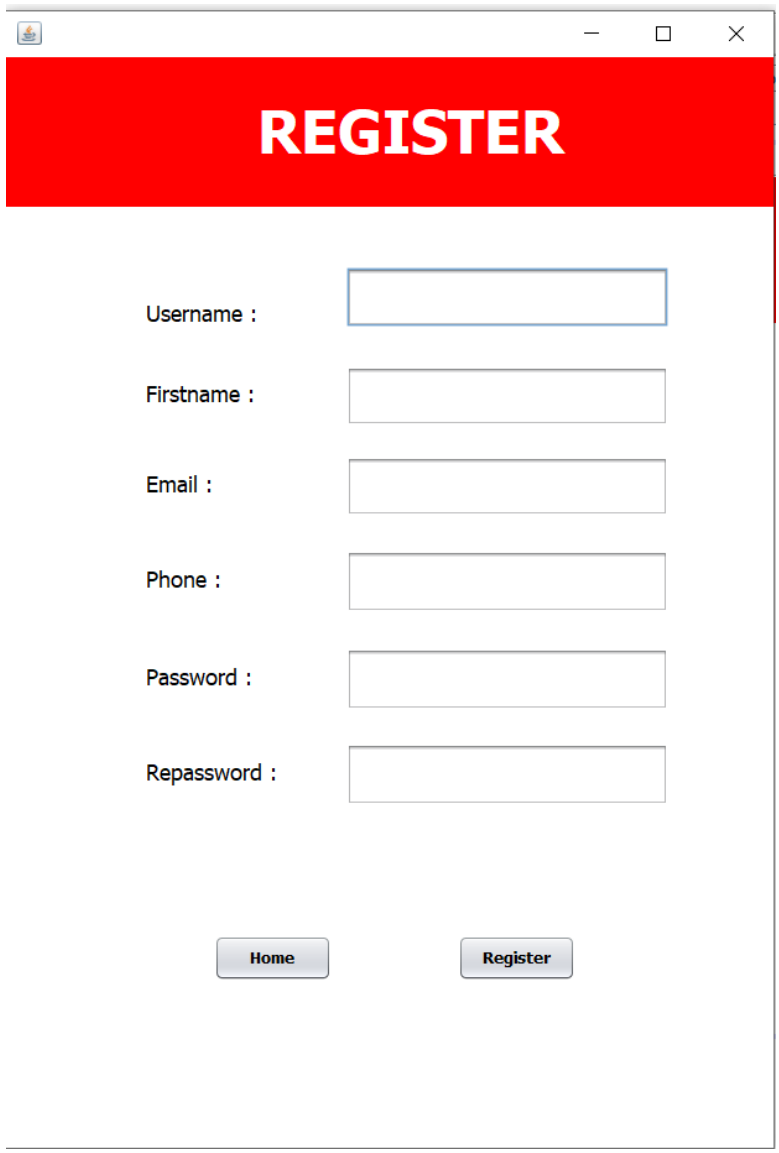

Fig. 3.3: Register page

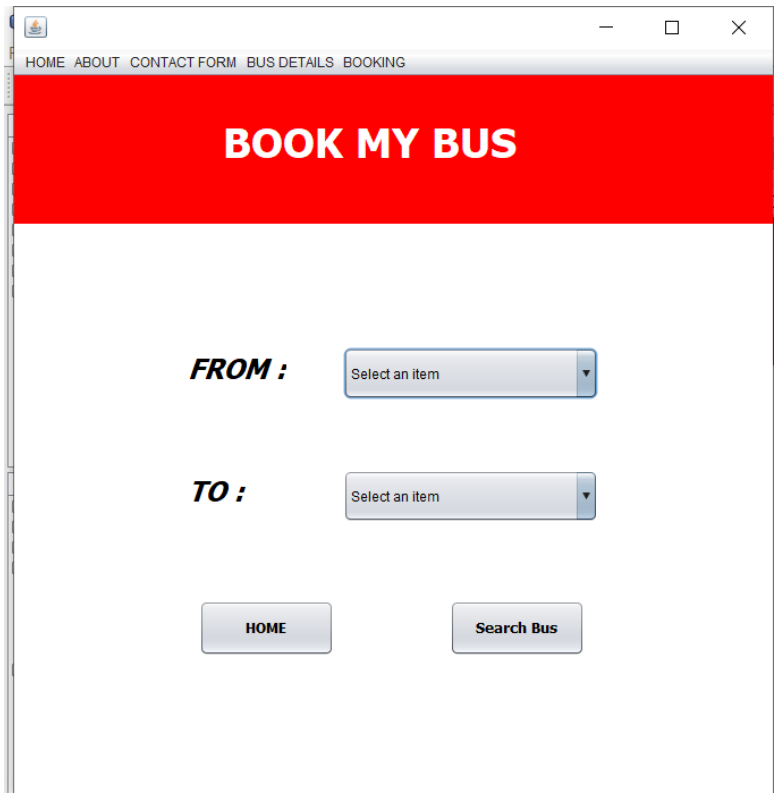

Fig. 3.4: main home page

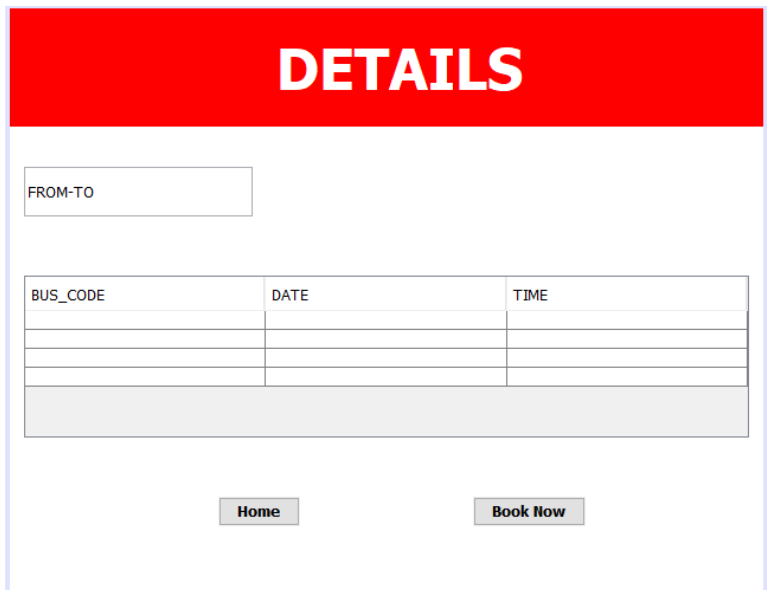

Fig. 3.5: search display page

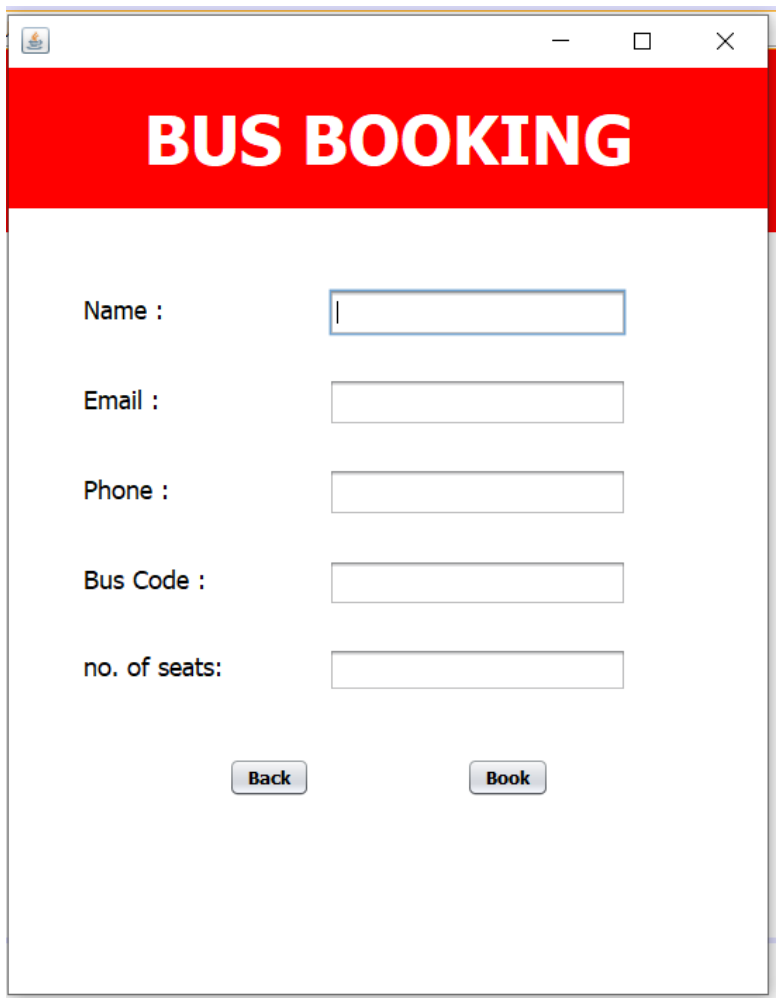

Fig. 3.6: booking

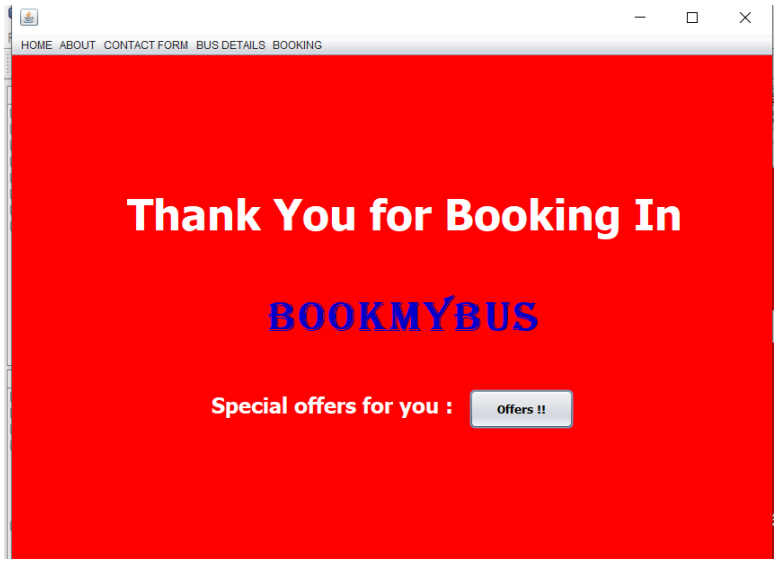

Fig. 3.7: booking confirmation page

Fig. 3.8: about page

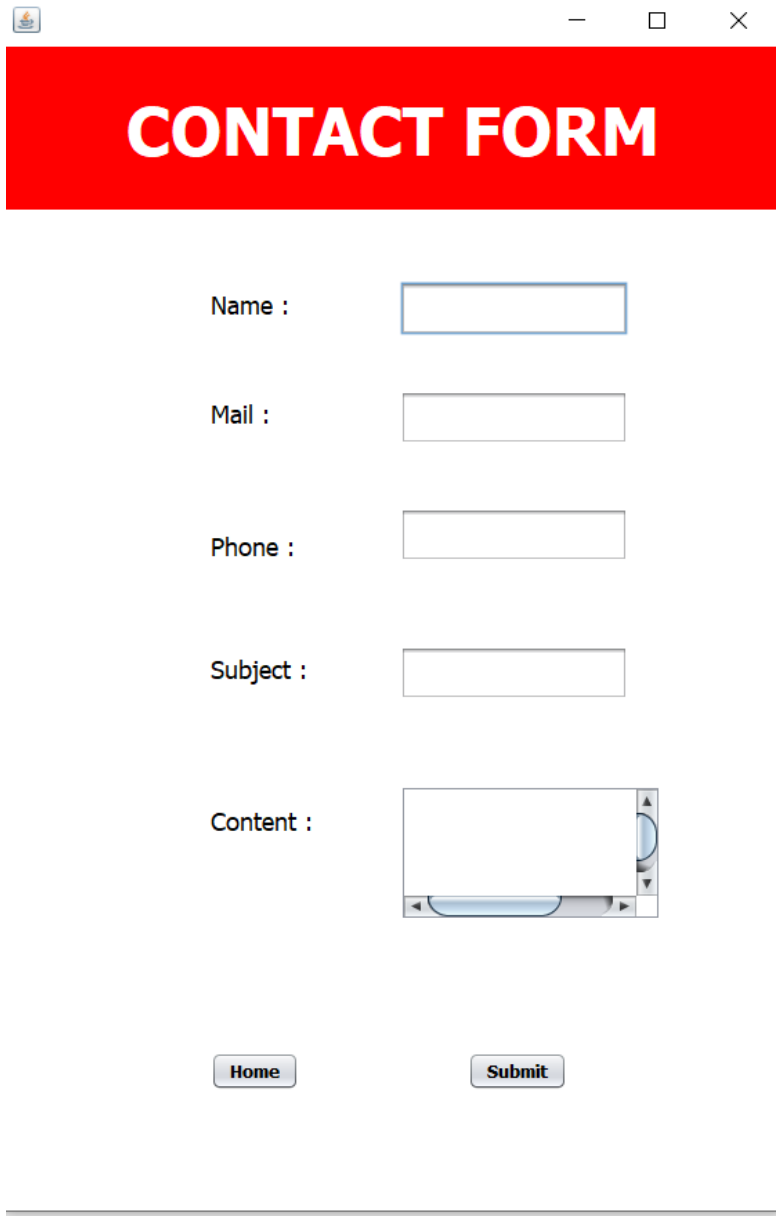

Fig. 3.9: contact form page

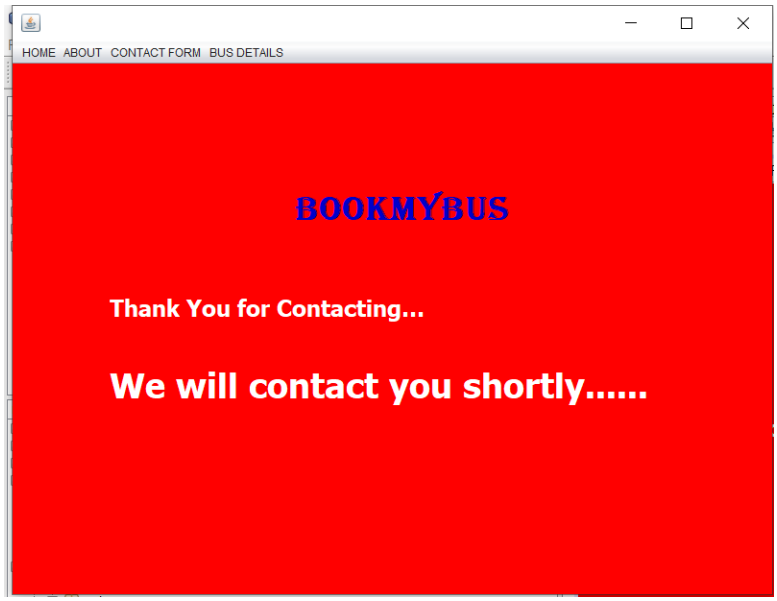

Fig. 3.10: contact submission confirmation page

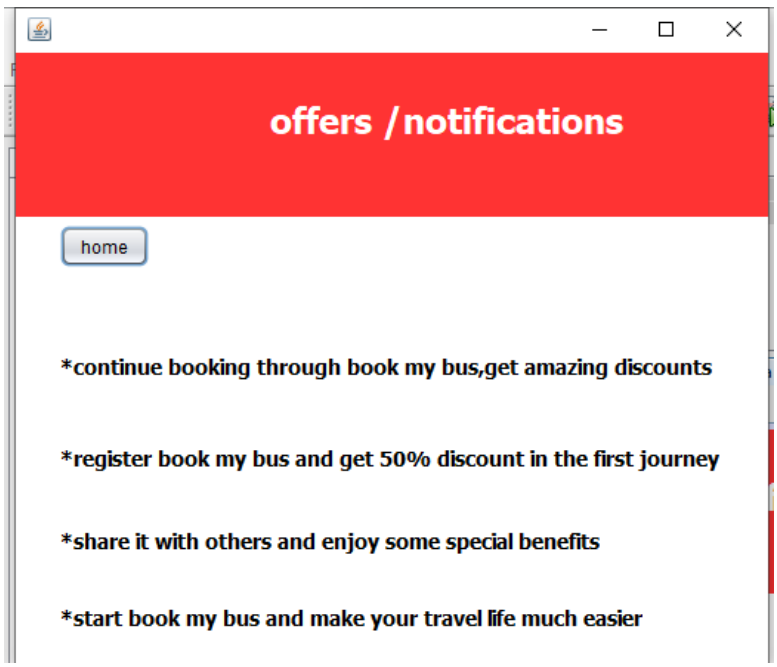

Fig. 3.11: offers and notifications page

Chapter 4

CONCLUSION

The core reason for the establishment of computerizing Online Bs Reservation System is to enable the users as well as the administrators in a convenient, fair and timely manner. A lot still needs to be done in the IT department in order to make available technology effective.

It can be observed that computer applications are very important in every field of human endeavor. Here all the information about customer that made reservation can be gotten just by clicking a button with this new system, some of the difficulties encountered with the manual system are overcome. It will also reduce the workload of the staff, reduce the time used for making reservation at the bus terminal and also increase efficiency. The application also has the ability to update records in various files automatically thereby relieving the company's staff the stress of working from file security of data.

This project, as a whole, will give a new way in bus reservations and ticketing processes. The automation and management of seats and reservations will be done online. However, this project does not limit the walk-in passengers that is passengers who visit the company's counter because it also caters for them. This also lessens the use of papers like in the traditional way of ticketing

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