A Project Report

on

“MOVIE TICKET BOOKING SYSTEM”

by

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SECTOR26, NIGDI, PRADHIKARAN

SAVITRIBAI PHULE PUNE UNIVERSITY

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SEMESTER I

DEPARTMENT OF COMPUTER ENGINEERING,

PIMPRI CHINCHWAD COLLEGE OF ENGINEERING

SECTOR26, NIGDI, PRADHIKARAN

Date:

CERTIFICATE

This is to certify that,

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of class T.E Computer Engineering; have successfully completed their project work on "Departmental Library Management System'' at PIMPRI CHINCHWAD COLLEGE OF ENGINEERING in the partial fulfillment of the Graduate Degree course in T.E at the Department of **Computer Engineering**, in the academic Year 2017-2018 Semester – I as prescribed Savitribai Phule Pune University.

Gudied By :
Prof. Vishal Wagh

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We also like to thank our friends and family who helped us a lot in finalizing this project within limited time frame.

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Abstract

This project is aimed at developing an ticket reservation system for a Cinema Hall. This application will automate the reservation of tickets. This cinema hall is a multiplex with 3 screens and each screen has three different types of classes/seats. Only 50% of seats can be reserved. User is required to login to the system and needs to be a registered user for booking the tickets. Tickets can be collected at the counter. Watching movies with family and friends in theaters is one of the best medium of entertainment after having a hectic schedule. But all this excitement vanishes after standing in hours in long queues to get tickets booked. The website provides complete information regarding currently running movies on all the screens with details of show timings, available seats and fare charges of different classes. Seats can be reserved for different classes as well for same show and screen also. Ticket reservations are done using credit card and can be canceled if needed

Chapter 1

Introduction

This chapter gives an overview about the aim, objectives, background and operation environment of the system.

1.1Motivation

The motivation of this project is to provide an easy option for the customer who is willing to book tickets for a movie. It saves his time and labor. On the other hand half of the tickets of the cinema hall are been provided for booking tickets. Such that labor of staff is reduced. This system can be accessed anywhere who has net connection at any time of day or night, thus providing customer's comfort. And also plays a major role in promoting the multiplex and the movies.

1.1 Problem Statement

The main objective of the project is to help the customer to book tickets with ease from anywhere, anytime,anyplace. The customer will be also able to pay for the ticket if needed.

1.2 Project Objectives

The main purpose of ticket booking system is to provide another way for the customer to buy cinema ticket. The Ticket Reservation System is an Internet based application that can be accessed throughout the Net and can be accessed by any one who has a net connection**.** It is an automatic system, where we will automate the reservation of tickets and enquiries about availability of tickets. After inserting the data to database, staff need not to worry about the orders received through the system and hence reduces the manual labor. One of the best features of the system is to refund the amount on cancellation of tickets by customer.

Chapter 2

Requirement Analysis

This chapter gives an overview about the aim, objectives, background and operation environment of the system.

2.1 Introduction

The project titled “MOVIE TICKET BOOKING SYSTEM” is library management software for monitoring and controlling transactions in library.

This project is developed in PyQt Framework Python 1.11, which mainly focuses on basic operations like adding new member, booking tickets, updating new information, searching movies and facility to pay the money online . This system will be able to help customers to make their transaction faster.

2.2 Existing Methodologies

The existing system has two ways of booking tickets for a movie:

one is to book tickets at the ticket counter of respective cinema hall and the other one is through phone called as“Telebooking”.Former is one of the hectic processes where one should stand in long queues for hours.Telebooking was introduced keeping in view the user’s comfort while booking tickets.

2.3 Proposed methodologies/System

The proposed system is a web based application where one can buy tickets with just one click go. A user can buy tickets at any time of day or night. He will be guided with all the necessary steps to book tickets and collect tickets at the ticket counter in the website.

Also in the proposed system, customers can cancel seats at a suitable time (2 days before the show to 1hour before the show). If the customer wishes to cancel his tickets he will be given a confirmation details regarding his cancellations. As the customer buys tickets online through his credit card, on cancellation of tickets the refunded amount (30% of the amount will be charged for service charges) will be added back to his credit

2.4 Project Plan

2.4.1 Scope

- When user hits "**Login**" Button he is directed to the next **selection** page
- In the selection button , he is he is given choice to either **Book** , **Cancel** <,**Show Status** , **Logout**
- User Can select any choice and hit **next**
- After that he can choose movie of his choice and timing and hit **next**
- Then he is directed to **Seat Booking**
- After that for booking confirmation , he has to pay either by **Debit** , **Credit** , **Netbanking** , **Other**
- Then his booking gets confirmed !

The scope of this project is to provide an easy option for the customer who is willing to book tickets for a movie. It saves his time and labor. On the other hand half of the tickets of the cinema hall are been provided for booking . Such that labor of staff is reduced. This system can be accessed anywhere who has net connection at any time of day or night, thus providing customer's comfort. And also plays a major role in promoting the multiplex and the movies.

Keeping in view the customer's benefit, the system also has an additional functionality where the refund is available on cancellation of tickets. This is one of the functionalities where the previous systems were lacking with.

2.4.2 Major Software Functions:

2.4.4 Requirement Analysis

Data Requirement:

The inputs consist of the query to the database and the output consists of the solutions for the query. The output also includes the user receiving the details of their accounts.

In this project, the inputs will be the queries as fired by the users like create an account, selecting movies and putting into account. Now the output will

be visible when the user requests the server to get details of their account in the form of time, date and which movie are currently in the account.

Performance Requirement:

Safety Requirement:

The database may get crashed at any certain time due to virus or operating system failure. Therefore, it is required to take the database backup so that the database is not lost. Proper UPS/inverter facility should be there in case of power supply failure.

User Requirement:

The users of the system are members and Librarian of the university who act as administrator to maintain the system. The members are assumed to have basic knowledge of the computers and internet browsing. The administrators of the system should have more knowledge of the internals of the system and is able to rectify the small problems that may arise due to disk crashes, power failures and other catastrophes to maintain the system. The proper user interface, user manual, online help and the guide to install and maintain the system must be sufficient to educate the users on how to use the system without any problems.
The admin provides certain facilities to the users in the form of:

➢ Backup and Recovery
➢ Forgot Password
➢ Data migration i.e. whenever user registers for the first time then the data is stored in the server
➢ Data replication i.e. if the data is lost in one branch, it is still stored with the server
➢ Auto Recovery i.e. frequently auto saving the information
➢ Maintaining files i.e. File Organization
➢ The server must be maintained regularly and it has to be updated from time to Times

2.4.5 Quality assurance and control

- Project will be completed according to the planning.
- Equal time will be given to coding as well as implementation.
- Modification of project according to future requirement can be done.

We think that not a single project is ever considered as complete forever We want to improve our home page , as it is the main things which attracts all users.

Chapter 3

Project Design

3.1 Hardware and Software Requirement in detail

3.1.1 Software Requirements:

- Minimum Server Side Requirements :
- Software
- Operating System : Window7 or compatible
- Web Server : IE 6.0 +

3.1.2 Hardware Requirements:

- Hardware
- Processor : 1.5 MHz or above
- Ram : 1 GB
- Hard disk : 5 GB of free space on hard disk

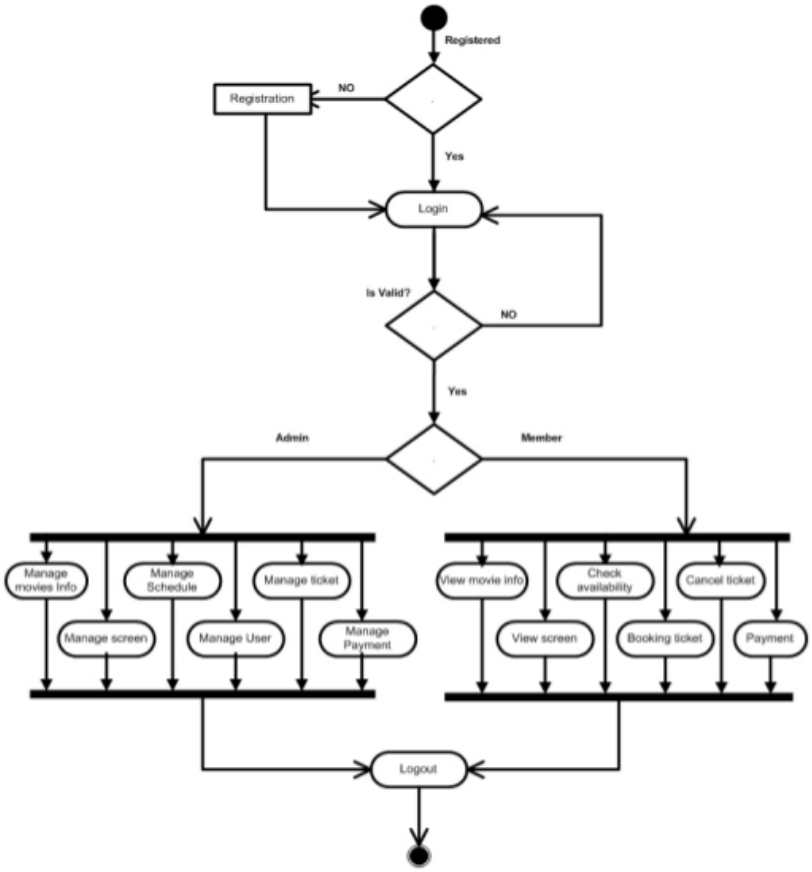
3.2 Modules in Project

3.2.1 Flow Chart:

SYSTEM FLOW CHART

3.2.2 State Diagram:

/ Diagram


Registered
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Registration
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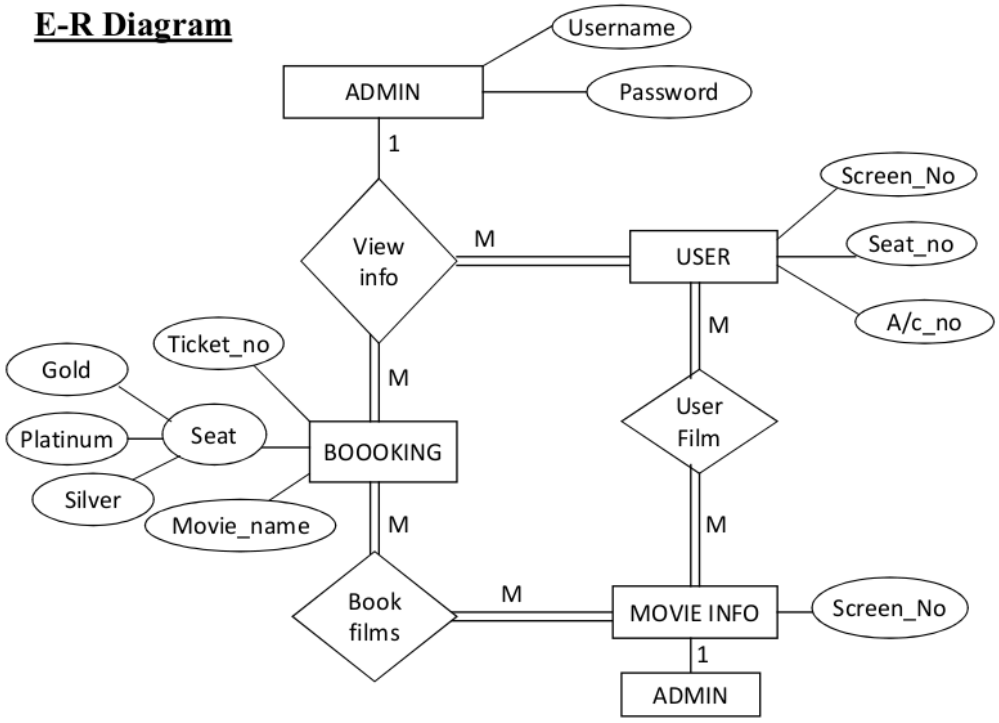
NO
Yes
Admin
Member
Manage movies Info
Manage Schedule
Manage ticket
Manage screen
Manage User
Manage Payment
View movie info
Check availability
Cancel ticket
View screen
Booking ticket
Payment
Logout

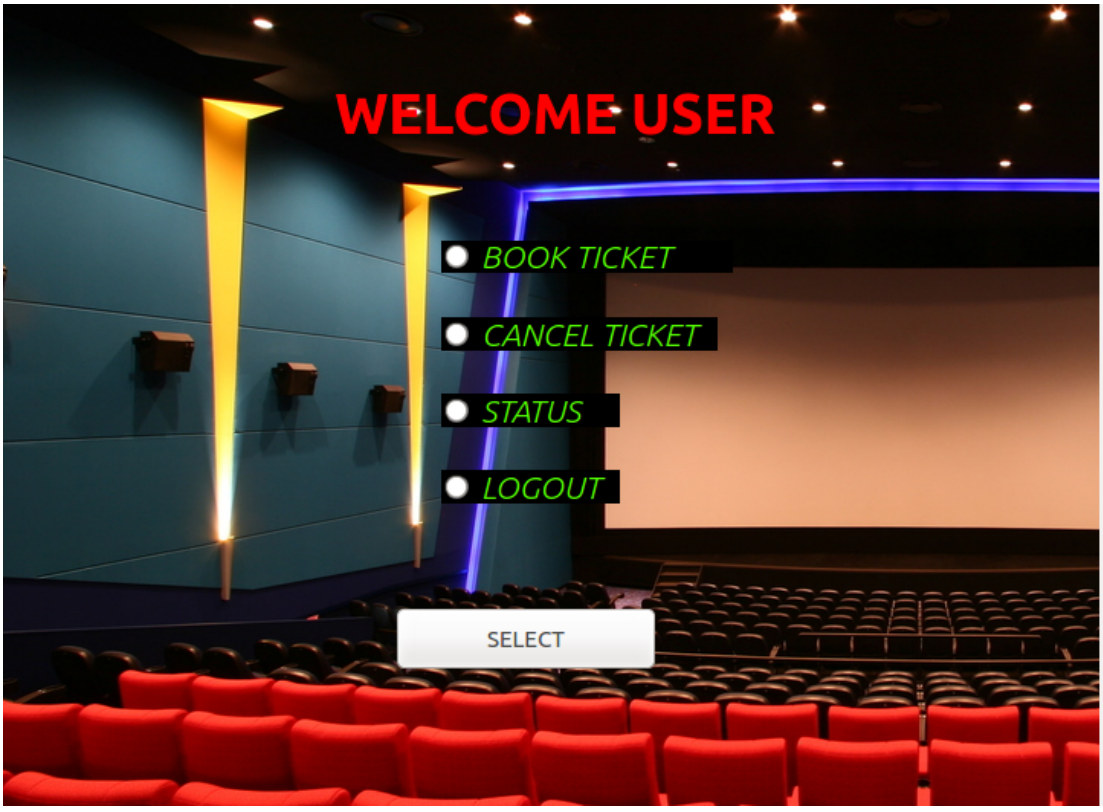
3.3 ER Diagram



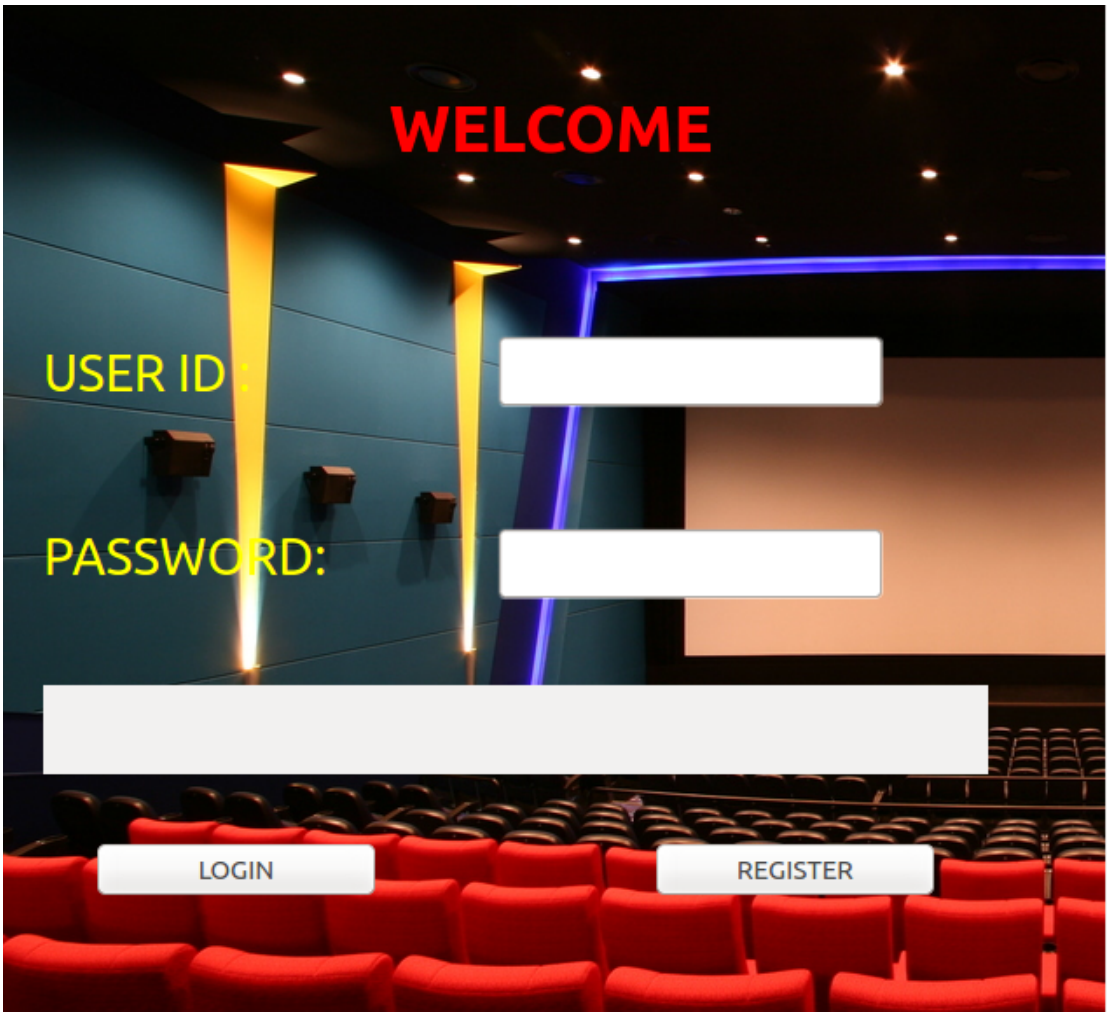
Chapter 4

Results

3.1 GUI Forms



Log in page:



Home page:

3.1 Sample Database Tables:

3.1.1 USER_INFORMATION TABLE :

FIELD NAME	DATATYPE	LENGTH	KEY
User _ id	Varchar	50	Primary Key
User _ Name	Varchar	50	-
User _phone _ number	integer	50	-
User _ Password	varchar	50	-

3.1.2 LOGGED_USERS TABLE:

FIELD NAME	DATATYPE	LENGTH	KEY
User _ id	Varchar	50	-
Status	varchar	50	-

3.1.3 J2CE _ BOOKING TABLE :

FIELD NAME	DATATYPE	LENGTH	KEY
User _ id	Varchar	50	Foreign key
Seat _ no	Varchar	50	-
Time	varcahar	50	-

3.1.4 3 IDIOTS _ BOOKING TABLE :

FIELD NAME	DATATYPE	LENGTH	KEY
User _ id	Varchar	50	Foreign key
Seat _ no	Varchar	50	-
Time	varcahar	50	-

3.1.5 SAIRAT _ BOOKING TABLE :

FIELD NAME	DATATYPE	LENGTH	KEY
User _ id	Varchar	50	Foreign key
Seat _ no	Varchar	50	-
Time	varcahar	50	-

- **Normalisation**

Normalization is a database design technique which is used to organize the tables in such a manner that it should reduce redundancy and dependency of data.

We have tried our best to normalize all the tables in 3NF form.

Example:

First, we made a single table for book seats and inside it we also keep registration data:

BEFORE:

Book Table and issue in same table:

FIELD NAME	DATATYPE	LENGTH	KEY
User _ id	Varchar	50	Primary Key
Name	Varchar	50	-

Phone Number	Varchar	50	-
Password	Varchar	50	-
Film Name	Varchar	50	-
Seat Booked	Varchar	50	-

Normalized form:

User Information Table:

FIELD NAME	DATATYPE	LENGTH	KEY
User _ id	Varchar	50	Primary Key
Name	Varchar	50	-
Phone Number	Varchar	50	-
Password	Varchar	50	-

J2CE _ booking :

FIELD NAME	DATATYPE	LENGTH	KEY
User _ id	Varchar	50	Primary Key
Seat Booked	Varchar	50	-
Time of Show	Varchar	50	-

Conclusions

After analyzing the cost benefit and working of the current system & automated system, we conclude that the automated system is best. Computerized Library system is more efficient and reliable than the old system. It reduces most of the paper work. All books are easier to access and overall brings usability of the system forward. All the requirements of the department for the Movie Ticket Booking System are satisfied. The project is fully functional with no errors. The database is secure and the UI is user-friendly.

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