



PES University, Bengaluru

(Established under Karnataka Act 16 of 2013)

Department of Computer Science & Engineering
Session: Jan - May 2022

**UE19CS353 – Object Oriented Analysis and Design with Java
Theory ISA (Mini Project)**

Report on

Movie Ticket Booking Management System

By:

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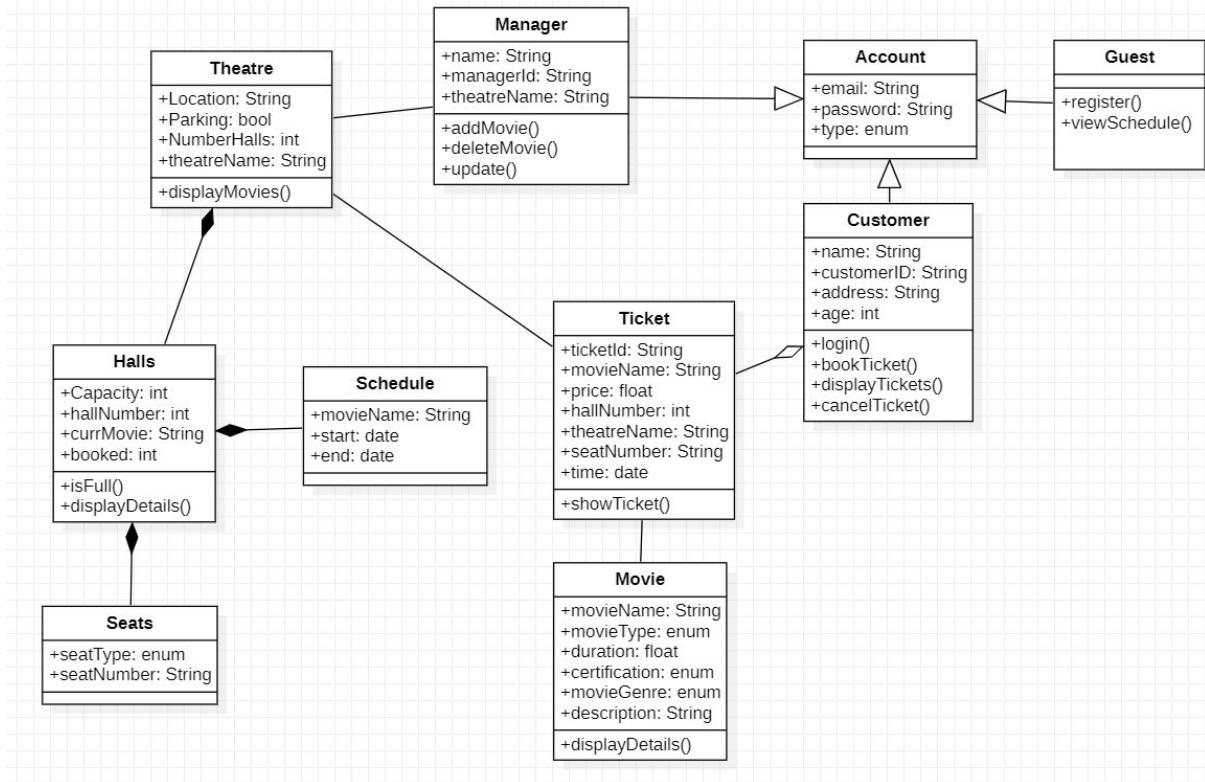
6th Semester B

1. Project Description:

- **Movie Ticket Booking Management System** - a complete application where a user can book tickets to watch a movie and review them; and theatre managers can schedule their movies.
- We have two roles - User and Manager.
- If the user is a new user, then he/she must first register and then be able to login to book tickets. The logged in user can view the movies available and book tickets for movies that have been added to the schedule by the manager. After successfully booking the tickets and doing the payment for the tickets, the user can review/rate the movies he/she has watched as well.
- A manager can view the current movie schedule for the theatre. He can add new movies to be scheduled or remove existing movies from schedule.
- Both the manager and user views are in sync when a movie gets updated.
- [**Github repository link**](#)

2. Analysis and Design Models:

- Our architecture pattern is MVC.
- Decomposition of our project was done based on functionality.



3. Tools and Frameworks Used:

- **Visual Studio Code**
- **Swing and AWT - for interactive UI**
- **PostgreSQL as database component**

4. Design Principles and Design Patterns Applied

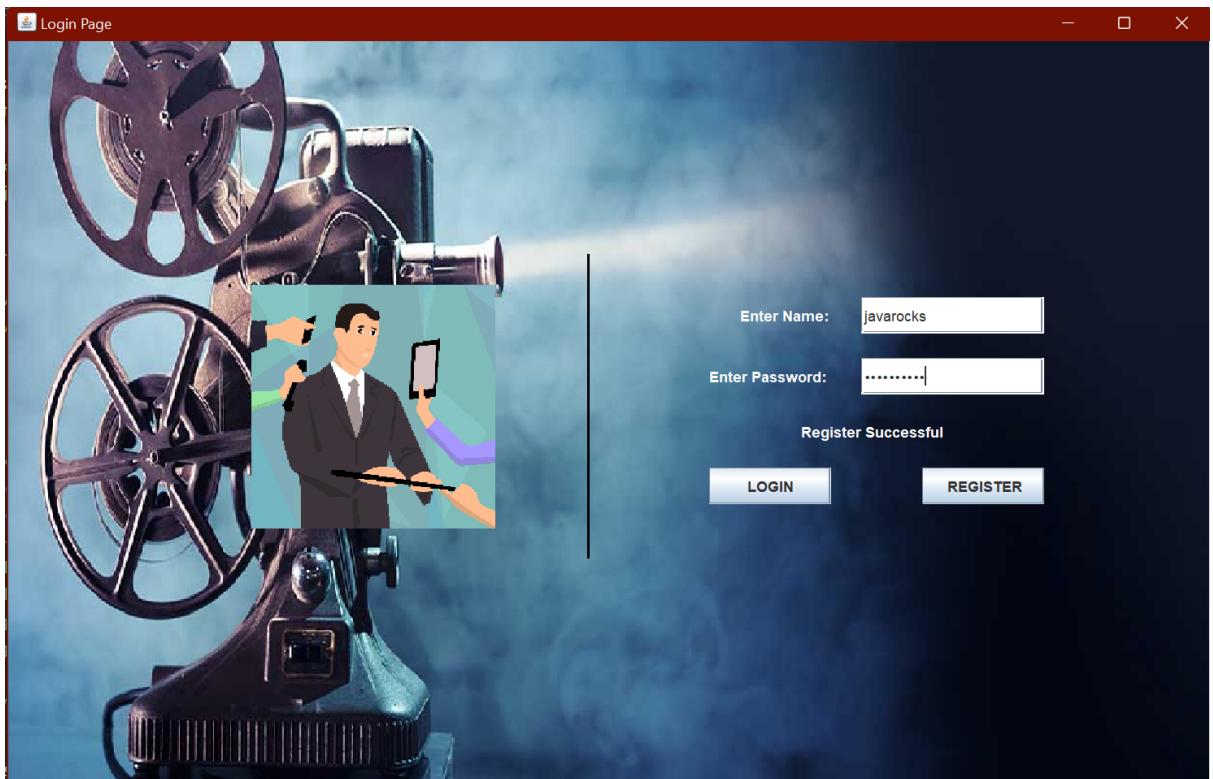
We have mainly used two Design Patterns among others:

- **Singleton: (SingleDatabase class)** We have made the database connection and operations class as a singleton class. This will avoid efficiency loss by having unnecessary multiple connections and keep a single connection to the DB during the application lifetime.
- **Factory: (UserTypeFactory class)** Since this application has two types of user the movie watcher and theatre manager, based on the credentials entered the factory

class will determine which class the new instance should belong to and which view should be displayed

5. Application Screenshots:

- Login Page:

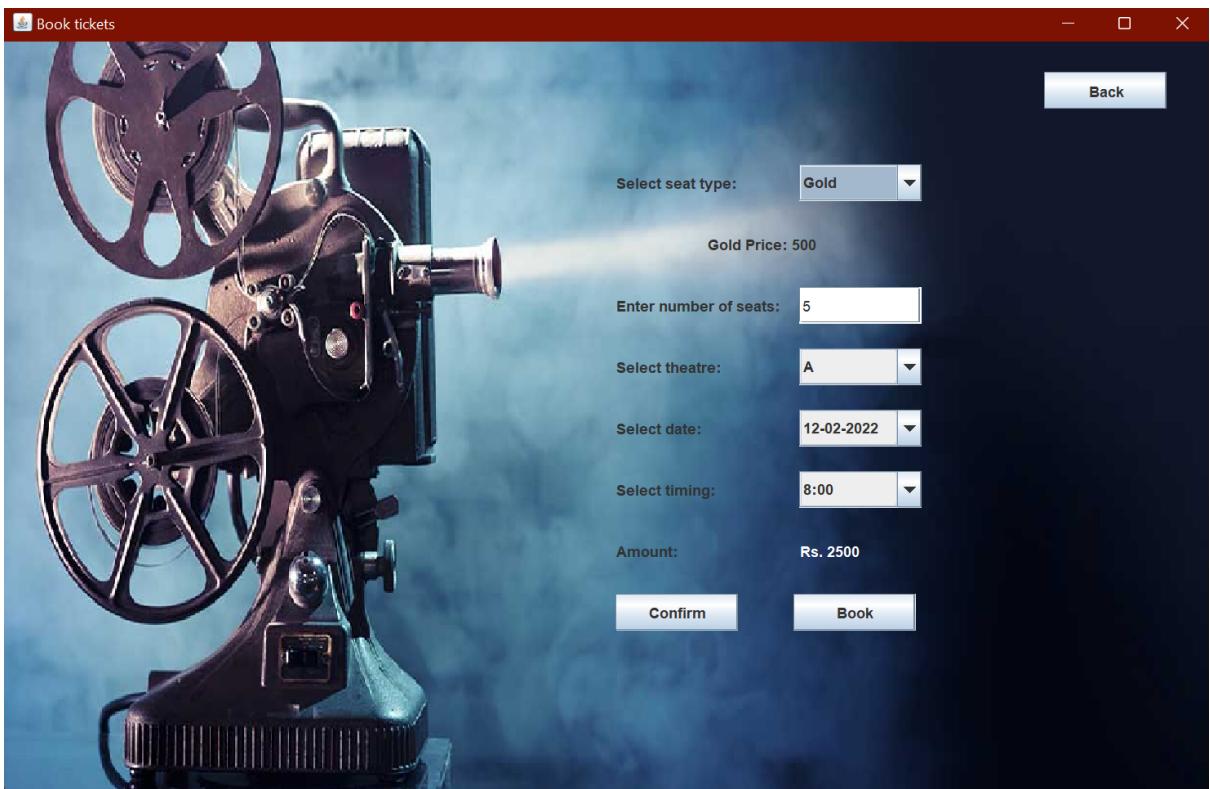


- User Dashboard:

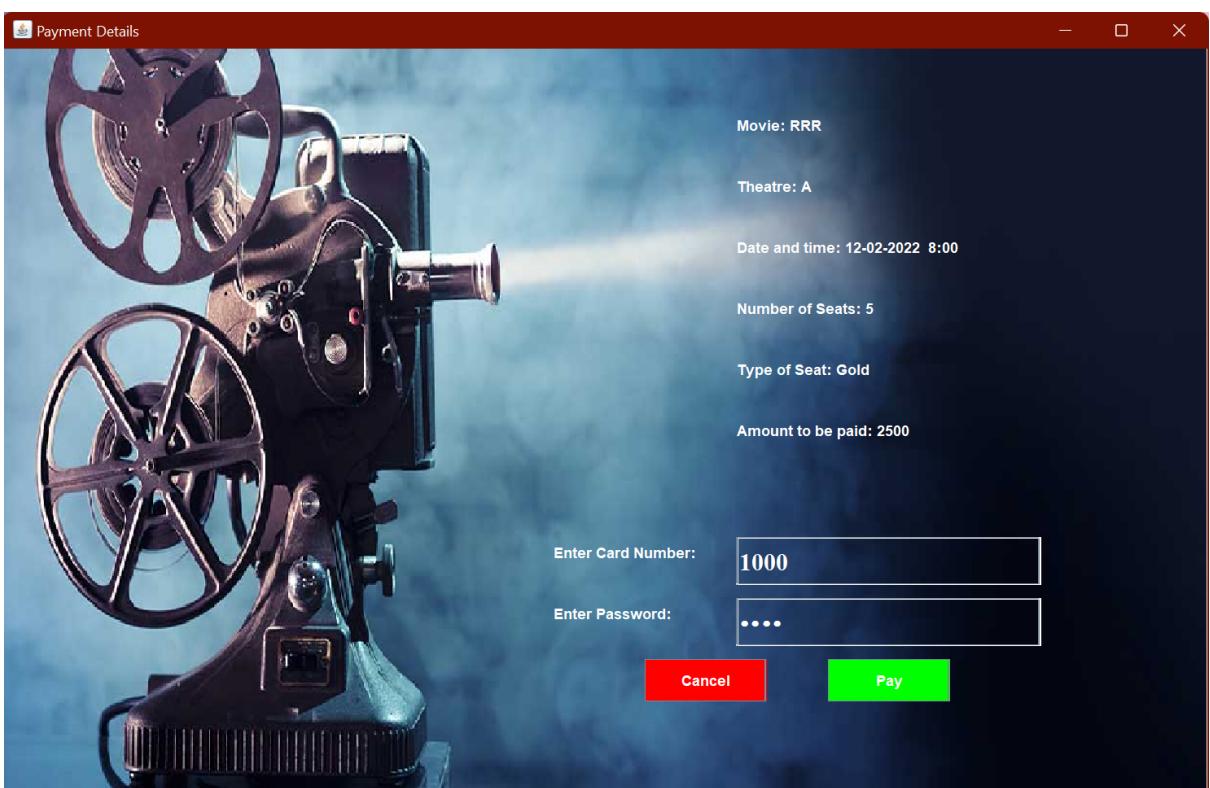
Poster	Movie Name	Description
	RRR	RRR is a 2022 Indian Tamil-language thriller film di...
	The Kashmir Files	Kashmir is a 2022 Indian Hindi-language thriller fil...
	The Viceroys House	Viceroy's House is a 2017 British-Indian historical dr...

Add Review Book Logout

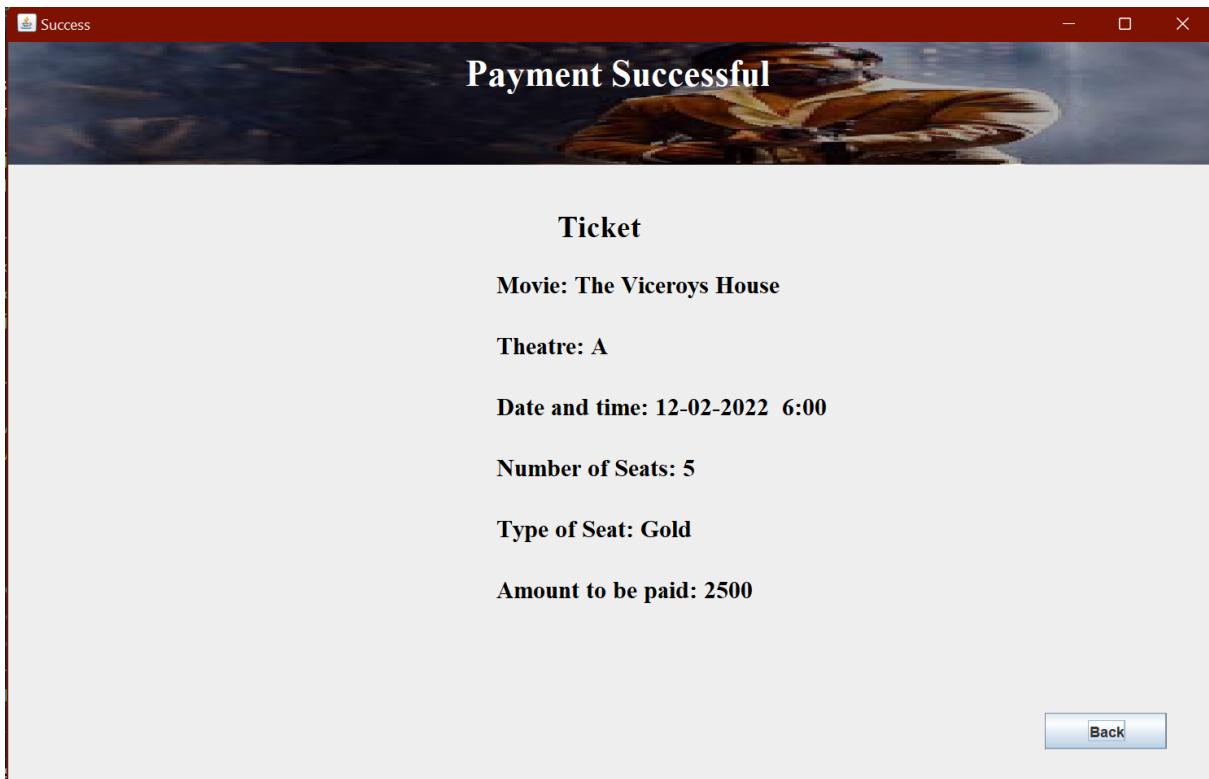
- Book Ticket Page:



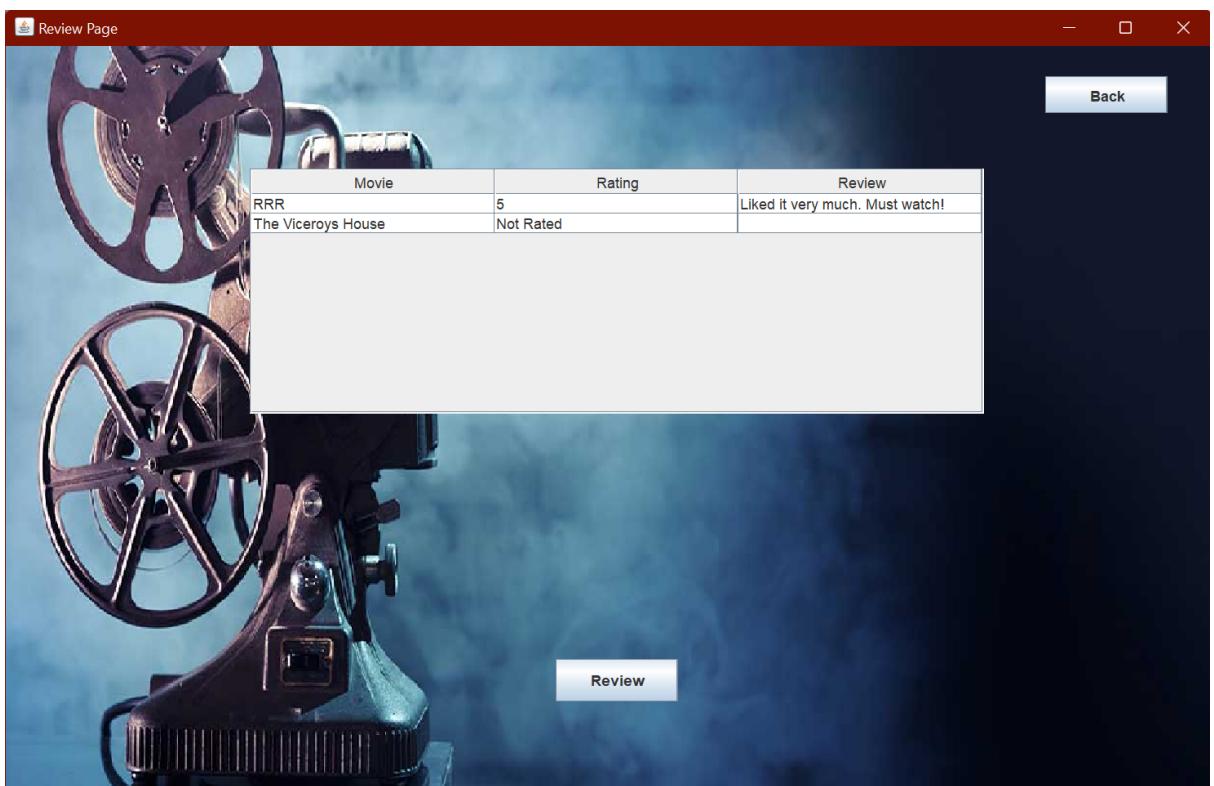
- Payment Page:



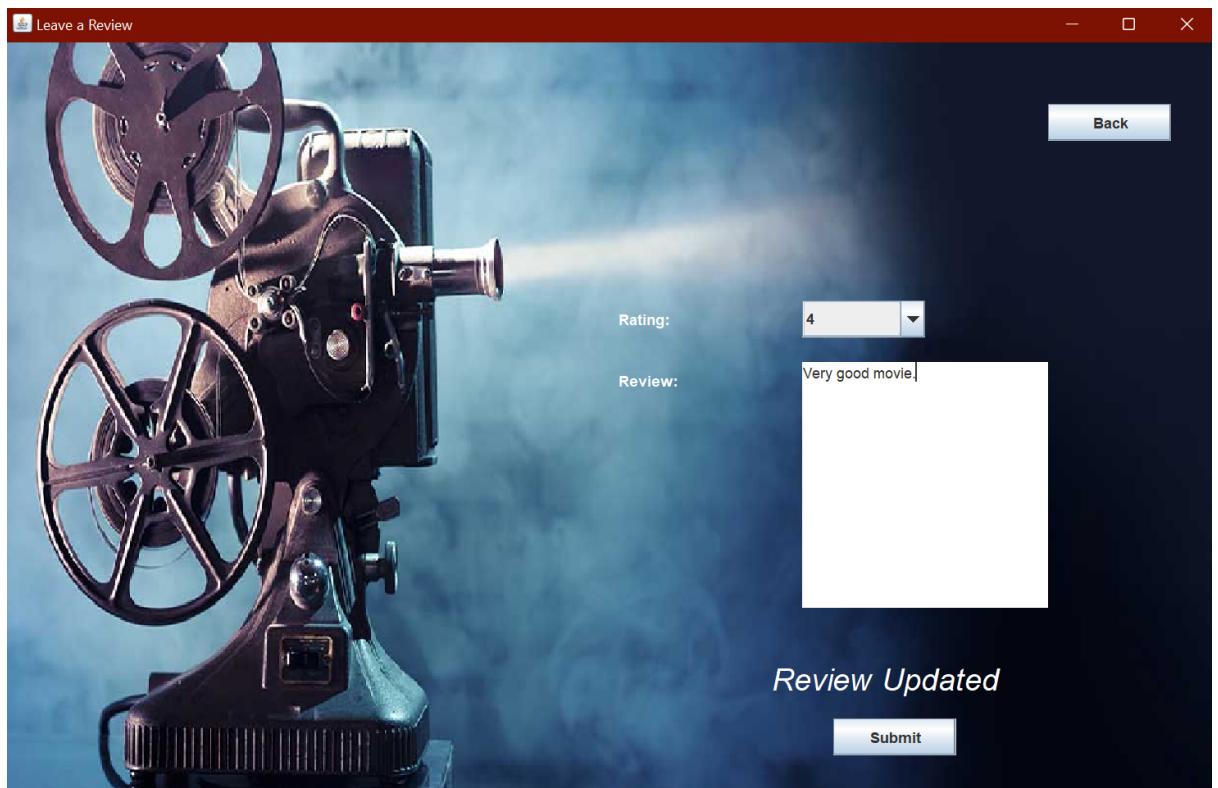
- **Payment Success Page:**



- **Review Page:**



- Add Review Page:



- Manager Dashboard Page:

Manager View

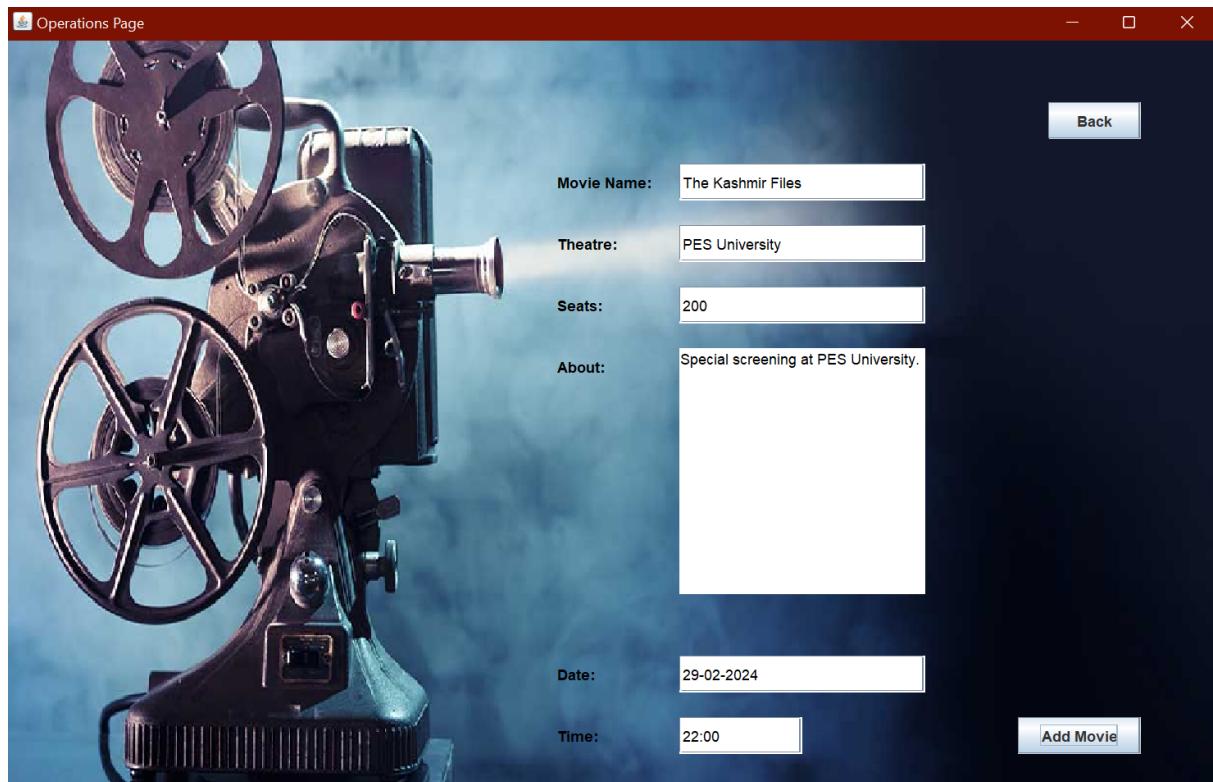
Logout

name	theatre	seats	showdate	showtime
RRR	A	10	12-02-2022	6:00
RRR	A	5	12-02-2022	8:00
The Viceroy's House	A	5	12-02-2022	6:00

Delete

ADD

- Add Movie Page:



6. Team member contributions:

Functionality	Done By
Login Page(User and Manager)	Archit, Ashwin
User Dashboard	Ashwin, Arpan
Manager Dashboard	Arpan
Book Ticket	Archit
Ticket Payment	Arpan
Add movie	Ashwin, Archit
Add review/rating	Arpan

Single Database and UserTypeFactory	Arpan
UI Design	Archit