**National University of Sciences and Technology (NUST)**



**CS-220**

**DATABASE SYSTEM**

**Project Proposal**

**BESE 12-B**

**Lecturer**

**Dr. Bilal Ali Rizvi**

**Group Members**

|  |  |
| --- | --- |
| **Name** | **CMS ID** |
| Muhammad Bilal | 389994 |
| Muhammad Ashhub Ali | 380078 |
| Abdul Arham | 374696 |

**Project Name: Cinema Ticketing System**

**Project Details:**

The aim is to build a complete system that simulates the workings and logistics of a generic ticketing system in a cinema. Our program will have a plethora of dimensions which include, but are not limited to:

1. Administrator End
2. User End
3. Database End

To start, we intend to make our project such that it intricately mimics the daily occurrences inside a cinema, using samples and templates. Our goal is to make it workable, such that it can be implemented and used by any cinema in the region, e.g., The Arena in Bahria Town, Rawalpindi

**Basic Implementations & Features:**

**Database:**

In today’s world, almost everything is connected digitally. So it would be very effective for libraries to use a management system to keep a record of all sorts of information like movie type, number of theatres, seat number, booking of ticket etc. A key component of our project would be to use databases for real-time storage of all this data. Using MySQL, the data will be stored in the form of tables and blocks in a database and accessed through the \_\_\_\_ Library.

In general, user information such as Name, CNIC, Current Status, fines/ charges will be stored. Whereas, Employee Databases will include employee types (Librarian, Assistant, Technician, Janitors, etc.), their attendance, performance, and rank. For books, the number of copies, damaged items (if any), current availability, new arrivals, etc., will be saved in these databases.

**Front-End**

We intend to use \_\_\_\_\_. The interface created will allow the administrator to interact freely with the application. We will set up navigation bars to access each page. These pages include but are not limited to Homepage, Admin Login, Available Shows, Ticket booker, seat-display and Comments/ FAQs Section. To make it more appealing, we will add simple animations such as those enabled on hovering, etc.

**Admin Controls**

A core component of our application will be Serial Controls for the Administration (Manager/Clerk, in general). These controls will enable the Admin to book, cancel, confirm and provide tickets to a customer. The Admin will have access to all the Movie Titles(inflow as well as outflow).

**Dynamic Search**

This feature will allow the users to search for any movie available by entering \_\_\_\_\_

**//Features to be added:**

**Visually pleasing display to show all seats**

**Green for available, red for purchased and grey for booked**

**Time-dependent booking and cancellation of seats.**

**How Admin will change movie titles?**

**Movie titles and timings shown aesthetically, maybe on user end (Using imdb webpage embedded?)**

**Categories of tickets**

**Discounts?**

**Yearly membership? Keeping track of membership**

**Membership perks? 15% discount, one free ticket every Wednesday, 10% discount on food items etc?**

**Cancellation of purchased tickets?**

**How long will booking stand?**

**UI for booking tickets?**

**UI for purchasing online tickets maybe?**

|  |  |  |
| --- | --- | --- |
| **Group Member Name** | **Member**  **Title** | **Role / Tasks Allocated** |
| Abdul Arham | Back-end Developer | * Design of Graphical Interface * Employee Management System * File Handling * Implementation of Administration Controls * Frontend-Backend Integration |
| Muhammad Ashhub Ali | Front-end  Developer | * Design of Database * Integration of Database * Dynamic Search implementation |
| Muhammad Bilal | Database manager | * Backend refinement * Exception handling |