**Project Plan**

**Team Cinema**

**CMSC 495**

**Project Members**

Miles Bell

Tremaine Powell

Malcolm Gilbert

Char Williams

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1. **Introduction**

This project plan will provide information on the goals of our project and how its development will be planned out. Included within are a Statement of Work, Our resources used, Roles, and Risks associated with development.

1. **Statement of Work**

For this assignment we have been tasked with developing a computer science project of our choice. We will develop a video rental system with three main functions. First a user will be able to browse the movies available for rent in the store. Secondly a user will be able to rent a movie from the store's database. Finally users will be able to return rented movies back to the store.

1. **Resources List**

To complete our project we will need the following resources:

1. Programming tool (Java)
2. A database software used to hold movie information (MySQL,Oracle)
3. A database server to hold DB info (Glassfish)

System Specification: Any PC with Java Functionality. PC with internet connection.

Operating Platform: Java SE 8, MySQL

1. **Roles**

| Role | Back End Development |
| --- | --- |
| Members | Miles, Ling |
| Description | Responsible for writing the backend code for the project |

| Role | Frontend Dev |
| --- | --- |
| Members | Malcolm, Wilson |
| Description | Responsible for creating the UI used for the application. |

| Role | Database Dev |
| --- | --- |
| Members | Tremaine, Char |
| Description | Responsible for programming the database functions |

**Milestones**

1. Create Project Design
2. Create Test Plan
3. Develop functioning backend code via Java
4. Develop functioning Database code via MySql
5. Develop frontend UI via Java
6. Create functionality between Java and SQL
7. Test Code
8. Finish Documentation

**Risks**

This section contains any risks involved with creating a project. Identifying these risks early on will prevent problems within the code from arising further down the development cycle.

| Risk | Impact | Action |
| --- | --- | --- |
| Team Availability | Being unable to meet as a team would cause us to fall behind in our schedule | Start communicating early and stay up to date on what we’ve accomplished |
| Unfamiliarity With Programming Languages | Not knowing the languages will make it difficult to cooperate on code | Make sure everyone is familiar with the language being used |
| Difficulty with Database Setup | Our project relies on proper database functionality | Ensure the SQL script works with the Java code and test it on different databases |

**Schedule**

| Task | Start Date | End Date |
| --- | --- | --- |
| Develop Project Design |  |  |
| Create Test Plan | 3/28/23 | 4/4/23 |
| Phase 1 | Start Date | End Date |
| Code java functionality | 4/5/23 | 4/11/23 |
| Code database functionality and queries | 4/5/23 | 4/11/23 |
| Test Java and SQL functionality | 4/5/23 | 4/11/23 |
| Phase 2 | Start Date | End Date |
| Create UI | 4/12/23 | 4/18/23 |
| Implement and Test UI Functionality | 4/12/23 | 4/18/23 |
| Phase 3 | Start Date | End Date |
| Testing | 4/19/23 | 4/25/23 |
| Documentation | 4/19/23 | 4/25/23 |
| Organize deliverables for the application | 4/26/23 | 5/9/23 |