Project Management Plan

Project Name

The Store(TStore)

Team 5 Members

Jack Baxter

Shengrui Chen

Austin Pham

Hao Nguyen

Ryan Sheehan

1. **Overview**

Our team’s project is to develop a C2C shopping application using C/S development architecture. This project includes client-user interaction pages, back-end business logic and data storage. The final deliverable products of this project include the source code, technical documents, and user manuals, etc. The main work in the project development process is to make plans, market research, demand analysis, system design, source code development, and system testing. The key milestones are formulating project management plans, formulating requirements documents, formulating system design documents, developing projects, inspecting and testing projects, and writing user guides, the total progress is 12 weeks.

1. **Milestones**

**Project Milestones**

|  |  |  |
| --- | --- | --- |
| **Date** | **Tasks** | **Milestones** |
| Sept.1 - Sept.14 | Make a detailed management plan for the project | Project Management Plan |
| Sept.14 - Sept.28 | Formulating requirements documents | Requirements Document |
| Sept.29 - Oct.26 | Formulating system design documents | Design Document |
| Oct 26 - Nov.16 | Developing projects | Project Code |
| Nov.17 - Nov.26 | Inspecting and Testing projects | Testing and Test Document |
| Nov.27 - Nov.30 | Write installation guide and user guide | Installation Guide,User Manual |
| Dec.1 - Dec.3 | Final test and delivery of the product | Project demonstrations |

1. **Meeting Times**

There is a weekly project meeting for our team. Everyone is required to attend.

|  |  |  |  |
| --- | --- | --- | --- |
| **Team** | **Day** | **Time** | **Location** |
| Nguyen, Sheehan, Chen, Baxter, Pham | Friday | 5:00PM | Virtual |

1. **Team Role and Duty**

It is assumed that all project members will take part in all activities: requirements elicitation, analysis, design, implementation and testing of the system. However, at any time there should be one person overseeing each of the major cross-development activities.  (Please fill in your initial role assignments in the table below; during project development, to reflect any change, fill in a new table)

|  |  |  |
| --- | --- | --- |
| **Name** | **Role** | **Main Duty** |
| Hao Nguyen | Leader / Documentation Editor / Tester | Responsible for leading the overall progress of the system and communicating with team members to ensure that the software is completed on time. |
| Ryan Sheehan | Developer / Database designer | Responsible for the design and implementation of the database, and implement the code of the back end and database interaction part |
| Shengrui Chen | Developer / Documentation Editor | Responsible for writing the source code of the system and testing |
| Jack Baxter | Quality Engineer / Documentation Editor / Tester | Responsible for the quality of software code and documentation to ensure that the code and documentation meet the requirements |
| Austin Pham | Developer / Documentation Editor / Tester | Responsible for writing the source code of the system and testing |

1. **Sub Team**

The group will be divided into two teams in collaboration with each other. One focusing on developing the database, this team consist of Ryan and Austin, and is in charge of designing the layout of the database, type of items user can buy/sell, and what variables can be associated with the items. The database will be developed in PostgreSQL. The second team will be focusing on developing the layout and user interface of the application. This team consists of the remaining members and will be IntelliJ IDEA.

1. **Risk Management**

|  |  |  |
| --- | --- | --- |
| **RISK** | **REASON** | **SOLUTION** |
| Delayed | The project or document cannot be completed on schedule due to lack of time | For the risk of delay in schedule, the team leader must fully consider the high possibility of this risk, and must fully understand each schedule and coordinate and use resources in time to avoid this risk. |
| Technology | The selected development technology is immature or cannot meet the needs of the system | Choose mature technologies and fully understand the problems we need to solve and let the team members have time to understand and familiarize themselves with the required technologies in advance |
| Quality | The quality of the product or documentation does not meet user requirements | Communicate with users frequently and fully understand their needs, strictly review code and documents, organize strict tests to ensure product quality |

1. **Technology Selection**

The system will adopt the C/S architecture model and use the IntelliJ IDEA integrated development tool. The front-end user interaction page will be developed using HTML+CSS+JAVASCRIPT, the server-side business and data processing will use Java language and Spring framework, and the database will use the relational database PostgreSQL as the storage medium. All code and documentation will use git for version management.

1. **Resource**

The resources required for this project include the following:

1. Staffing:

1.1. Team manager

1.2. Front-end developer

1.3. Back-end developer

1.4. Database engineer

1.5. tester and document writer

2. Hardware:

5 desktops or laptops and 1 server

3. Software:

3.1 IntelliJ IDEA

3.2 Git

3.3 Relational database