**Project Plan**

* **Project Details :**
* **Name of software: Library Management Application**
* **Date of Project Plan: Feb 20, 2023**
* **Project Vision/Objectives:**
* The goal of the library management application is to make it easier for librarians to manage library activities
* This application has many features:
* Easy to install and use.
* Friendly interface.
* Password protection.
* Optimizing the management process
* **Scope :**
* The application is experimentally written in the Can Tho University Learning Resource Center
* Can also be applied to some medium-sized libraries with expansion needs
* **Our understanding of the client:**

The Learning Resource Center of Can Tho University is one of the 5 largest centers in Vietnam. Formerly the Central Library of Can Tho University, which was sponsored by the Atlantic Philanthropies (USA) to build, covers an area of ​​​​12,900m2. Total number of titles: more than 92,000 titles with more than 200,000 copies. Electronic archive: 2,500 documents. Facilities and equipment are modern, arranged and arranged in a scientific and harmonious way, suitable for each different use needs of readers. It can be said that the Learning Resource Center of Can Tho University is a source of knowledge not only for teachers and students here, but also as a focal point for knowledge of the Mekong Delta in general on various fields. science and technology as well as the social sciences and humanities.

* **Project Organization with Responsibilities Authorities:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Members** | **Role** | **Responsibilities** | **Functionalities** |
| 1 | Giang Thu Duyen | Team leader | Managing, taking the request, analyzing, designing, coding and testing. |  |
| 2 | Tran Huu Phuc | member | Taking the request, analyzing, designing, coding and testing. |  |
| 3 | Tran Hoang Tem | member | Taking the request, analyzing, designing, coding and testing. |  |
| 4 | Truong Hung Vu | member | Taking the request, analyzing, designing, coding and testing. |  |

* **Project Initiation/Requirement Document :**
* Requirement of software.
* Input data about Courses, question, exams,…
* **Deliverables:**
* **Application:**
  + - Deployment application.
    - Source code application.
* **Document:**

Help Document: User guide, install guide.

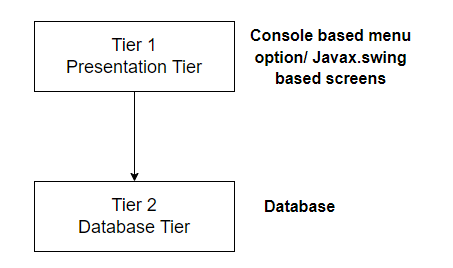
Project Document: Customer Requirements Specification.

* **Project Denpendencies:**

|  |  |
| --- | --- |
| **Methods of working group not effective** | **Methods of working group effective:** |
| Working groups are not punctual | Always on time |
| Assinging tasking do not rational | Assign work a very reasonable way |
| Do not listen to the opinions of members | Always listen to others speak |
| Do not respect the opinions of members | Respect the opinions of the group members |
| No self- conscious of their responsibilities in the group | The self- consciousness of each member of the group |

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|  | **Tasks Name** | **Main Responsible** | **Week (20/2 – 18/4)** | | | | | | | | | | | | | |
| **W1** | **W2** | | **W3** | | | **W4** | | **W5** | | **W6** | | **W7** | |
|  | Progress Control Meeting (KEY POINTS) | Truong Xuan Viet | 20/2 | 28/2 | | 7/3 | | | 16/3 | | 21/3 | | 31/3 | | 8/4 | |
| 2 | Definition of the Problem | Tran Hong Tem,  Giang Thu Duyen |  |  | |  | | |  | |  | |  | |  | |
| **3** | **Requirement analysis** |  | | | | | | | | | | | | | | |
|  | General analysis | All |  |  | |  | | |  | |  | |  | |  | |
|  | 3.1 Function requirement | Tran Hong Tem |  |  | |  | |  |  | |  | |  | |  | |
|  | 3.2 Overview of Processes involved in the system | Giang Thu Duyen |  |  | |  |  | |  | |  | |  | |  | |
|  | 3.3 Hardware and Software required | Giang Thu Duyen |  |  |  |  | | |  | |  | |  | |  | |
|  | 3.4 Customer’s Acceptance Criteria | Truong Hung Vu, Tran Huu Phuc |  |  | |  |  | |  | |  | |  | |  | |
| **4** | **Design** |  |  |  | |  | | |  | |  | |  | |  | |
|  | 4.1 Designing the GUI Standards (Java Swing/ JavaFX) | Tran Huu Phuc |  |  | |  | | |  | |  | |  | |  | |
|  | 4.2 Designing E-R Diagram | Giang Thu Duyen |  |  | |  | |  |  | |  | |  | |  | |
|  | 4.3 Designing Database Diagram | Tran Hong Tem |  |  | |  | |  |  | |  | |  | |  | |
|  | 4.4 Designing the Database in SQL Server | Tran Huu Phuc |  |  | |  | |  |  | |  | |  | |  | |
|  | 4.5 Collecting Employee/Reader/Catalog &Books data | Truong Hung Vu |  |  | |  | | |  | |  | |  | |  | |
|  | 4.6 Designing the Process Module (DFD, Flowchart) | Tran Hong Tem,  Giang Thu Duyen, Truong Hung Vu |  |  | |  | | |  | |  | |  | |  | |
|  | 4.7 Designing Coding Standards | Giang Thu Duyen |  |  | |  | | |  | |  | |  | |  | |
| **5** | **Development** |  | | | | | | | | | | | | | | |
|  | 5.1 User Interface Programming |  | | | | | | | | | | | | | | |
|  | - Login | Tran Huu Phuc |  |  | |  | | |  | |  | |  | |  | |
|  | - Reader (Borrowed/Extension/ Search/ Register a Discussion Room/ Feedback) | Giang Thu Duyen |  |  | |  | | |  | |  | |  | |  | |
|  | - Librarian (Reader/Discussion Room/Borrow/Return management) | Tran Huu Phuc, Tran Hong Tem |  |  | |  | | |  | |  | |  | |  | |
|  | - Manager (Catalog books & books/Bookshelf/Employee/Statistics) | Giang Thu Duyen |  |  | |  | | |  | |  | |  | |  | |
|  | - Home Page | Tran Huu Phuc |  |  | |  | | |  | |  | |  | |  | |
|  | 5.2 Functional Programming & Event handling |  | | | | | | | | | | | | | | |
|  | - Reader |  | | | | | | | | | | | | | | |
|  | + Search Document | Giang Thu Duyen |  |  | |  | | |  | |  | |  | |  | |
|  | + Displays about Extension Document Information | Giang Thu Duyen, Truong Hung Vu |  |  | |  | | |  | |  | |  | |  | |
|  | + Register to Borrow a Discussion Room | Giang Thu Duyen |  |  | |  | | |  | |  | |  | |  | |
|  | + My Profile | Giang Thu Duyen |  |  | |  | | |  | |  | |  |  |  | |
|  | + Change Password | Giang Thu Duyen |  |  | |  | | |  | |  | |  |  |  | |
|  | + Feedback Form | Giang Thu Duyen |  |  | |  | | |  | |  | |  | |  | |
|  | - Librarian |  | | | | | | | | | | | | | | |
|  | + Add/Update/Delete/Search Reader | Tran Hong Tem |  |  | |  | | |  | |  | |  | |  | |
|  | + Add/Update/Delete/Search Discussion Room | Tran Huu Phuc |  |  | |  | | |  | |  | |  | |  | |
|  | + Add/Update/Search  /Extension Borrow Books | Tran Huu Phuc |  |  | |  | | |  |  |  | |  | |  | |
|  | + Search/Displays Return Books | Tran Hong Tem |  |  | |  | | |  | |  | |  | |  | |
|  | - Manager |  | | | | | | | | | | | | | | |
|  | + Add/Update/Delete Catalog Books | Tran Huu Phuc |  |  | |  | | |  | |  |  |  | |  | |
|  | + Add/Update/Delete Books | Tran Huu Phuc |  |  | |  | | |  | |  |  |  |  |  | |
|  | + Add/Update/Delete BookShelf | Tran Huu Phuc |  |  | |  | | |  | |  |  |  | |  | |
|  | + Add/Update/Delete Employee | Tran Huu Phuc |  |  | |  | | |  | |  | |  | |  | |
|  | + Statistics Report | Tran Huu Phuc |  |  | |  | | |  | |  | |  | |  | |
|  | 5.3 White Box Test | All |  |  | |  | | |  | |  | |  | |  | |
| **6** | **Evaluation/Testing** | **All** |  |  | |  | | |  | |  | |  | |  |  |
| **7** | **Implementation** | **All** |  |  | |  | | |  | |  | |  | |  |  |
| **8** | **Maintenance** | **All** |  |  | |  | | |  | |  | |  | |  | |

* End update: April 5, 2023
* **Major Project Milestones**
* **Quality Plan:**
* **Review Activities:**One week periodic review project progress and quality features of application.
* **Testing Activities:**All functionality must be tested prior to release cross.
* **Backup and recovery strategies:**
  + - Need to synchronize data on the member’s computer.
    - Regular update and scan for viruses.
    - Backup data in Cloud, USB and hard drive**.**

Since the application will have client server architecture, it will have a two-tier architecture.

**Figure: Two-tier architecture of the project**