University of Maryland Global Campus

CMSC 495

Project Plan

Library Management System

Group 1

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**Project Plan**

**Overview**:

The project plan displays the names/roles/responsibilities of each team member, the phases of the project, to include the schedule and key milestones for tracking project progress. The project will be completed in seven weeks with deliverables due and submitted to the class assignments folder no later than Wednesday of each week. The final product and report will be due and submitted to the class assignments folder no later than the last day of class.

* Project plan/ requirements and system specifications
* Project design
* Test plan and user’s guide
* Phase 1 software source code
* Phase 2 software source code
* Phase 3 software source code
* Final project and report
  + Overview
  + Project plan
  + Requirements specification
  + System specification
  + User’s guide
  + Test plan and results
  + Design and alternate designs
  + Development history
  + Conclusions including lessons learned, design strengths, limitations, and suggestions for future improvement

Successful completion of the project includes:

* Creation and on-time submission of the following documents
  + Project plan and requirements/system specifications
  + Project design
  + Test plan
  + User’s guide
  + Phase 1, 2, and 3 source code
  + Peer Review 1, 2, and 3
  + Final project/report
* Creation of an operational software product meeting all requirements as described in the requirements specification and passes testing criteria as described in the testing documentation

1. **Requirement Specifications**

The proposed system will allow the users (library members) to access the Library Management System via a Graphical User Interface. The library members will log in to their account-or create an account if one does not already exist-with their username or library card barcode and password. The information for establishment of an account will include: name (first and last), address, email address, phone number, username, password, and library card ID.

Once logged in, the member will be able to:

* Search for books by title, author, ISBN, and/or year of publication.
* Sign out books
* Renew/extend the due date for books they already have checked out. They will be limited to only one renewal per book per checkout.
* Return books
* See late fees.
* Edit/update their profile information (name, address, email address, phone number).

**Login Scenarios:**

**GUI & Functionality**

1. Login credentials (username and password) should be case sensitive.
2. A minimum and maximum character length should be established for the text box fields (username, library card ID, password).
3. Password should be displayed in masked format rather than showing actual text format
4. A validation message should be displayed when an invalid username and/or password is entered or the fields are left blank.
5. Reset button should clear data from all the text boxes.

**Search Scenarios:**

1. Search results displayed should be relevant to search keyword(s)
2. Application should not crash if user inserted % in search field?
3. When user clicks on any link from result and navigates back, then result should be maintained
4. All search keyword/filters should be cleared on clicking the ‘Reset’ button
5. Search results should be cleared upon clicking the ‘clear search’ button
6. Total number of search records/results should be displayed on page
7. For ecommerce sites - search keyword should suggest similar kind of product/items
8. Library member should be able to search when he/she enters the keyword(s) and hits the ‘Enter’ button on keyboard
9. **System Specifications**

**Software:**

**Hardware:**

1. **Key Milestones** (Status: To do, In progress, Completed)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Milestone** | **WBS** | **Responsible Team Member** | **Due** | **Status** |
| Submit group names and topic | 1.3 | Gonghweh | 27-Oct | Completed |
| Complete and submit Project Plan | 2.3 | Cynthia | 4-Nov | In progress |
| Finalize Design decisions | 3.2 |  |  |  |
| Complete and submit Project Design | 3.5 |  | 11-Nov | To do |
| Complete and submit Test Plan | 4.4 | Cynthia | 18-Nov | To do |
| Coding/Implementation Phase 1 | 5.1 |  | 25-Nov | To do |
| Coding/Implementation Phase 2 | 5.2 |  | 2-Dec | To do |
| Coding/Implementation Phase 3 | 5.3 |  | 9-Dec | To do |
| Coding/Implementation Phase Final | 5.4 |  |  | To do |
| Complete User’s Guide | 6.2 |  |  | To do |
| Testing\* | 7.1 |  |  | To do |
| Project Completion (final document) | 9 |  | 15-Dec | To do |

\* Testing milestones will be outlined once the Test Plan has been finalized.

1. **Roles and Responsibilities**

|  |  |  |
| --- | --- | --- |
| **Team Member** | **Role** | **Responsibilities** |
|  | Planning Lead | Develop the project plan, manage deliverables according to the plan, establish the project schedule and determine each phase, track key milestones, assign tasks to team members, ensure project remains on schedule. |
|  | Requirements Lead | Define project requirements, create and complete requirements documentation, including use case scenarios and system specifications. Answer questions regarding requirements and ensure requirements are being met. |
|  | Design Lead | Work with developers to define system design specifications - Classes, methods, fields, interfaces, data structures, data file structures, input formats, output formats, etc. Create and complete design documentation. |
|  | Coding Lead | Lead development team to create system software. Define coding / comment standards. Define and manage coding and implementation phases / milestones. |
| Cynthia Reynolds | Test Lead | Focus on evaluating the quality of a user's experience when interacting with the product. Create and complete the test plan. Collaborate with developers in order to create test cases and test data. Report results, and makes recommendations to improve effectiveness and overall satisfaction of the user. |

**Group Tools**

* GitHub: file/document storage and collaboration