

**BBM 487 – SOFTWARE ENGINEERING LABORATORY**

**LIBRARY BOOK LOAN SYSTEM**

**PROJECT PLAN**

**GROUP II**

**Özlem DEMİRTAŞ 21327901**

**Umut ÖZTÜRK 21328394**

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Library Book Loan System

Project Plan

# Introduction

This Project Plan provides the general framework and establishes specific strategies and milestones for execution of the Library Book Loan System project. The PP will define the project’s requirements and expectations. This is a living document and will be updated as required.

# Project organization

**Library Book Loan Project**

**Group II**

**Project Manager**

Rahmi Berk Şefkatli

**Requirements**

Özlem DEMİRTAŞ

**Architecture**

Umut ÖZTÜRK

**Test**

Özlem DEMİRTAŞ

**Development**

Rahmi Berk ŞEFKATLİ

**Database Management**

Umut ÖZTÜRK

**Figure I Project Organization**

This section has been supplied to add clarity to the organization and to identify current reporting relationships and responsibilities.

The project members are Özlem DEMİRTAŞ, Rahmi Berk ŞEFKATLİ and Umut ÖZTÜRK. The project is divided into six main roles. These roles are responsible for different stages of the project and each role has a leader and helpers. This way we try to divide the work equally among the group members.

# Project practices and measurements

Productivity of group members (hour / week) involved in project will be measured as project metric. Estimated effort distribution for the project task can be seen in Figure II and Figure III.

|  |  |  |  |
| --- | --- | --- | --- |
| **Tasks** | **Date Range** | **Work Load (week)** | **Hour/Work** |
| Project Management | 28/02/2017 - 16/05/2017 | 11 week | along the project |
| Requirements | 28/02/2017 - 14/03/2017 | 2 week | 10 hour/week |
| Architecture | 14/03/2017 - 04/04/2017 | 3 week | 9 hour/week |
| Database Management | 14/03/2017 - 04/04/2017 | 3 week | 4 hour/week |
| Development | 04/04/2017 - 25/04/2017 | 3 week | 15 hour/week |
| Test | 25/04/2017 - 16/05/2017 | 3 week | 7 hour/week |

**Figure II Effort Distribution**

# Project milestones and objectives

|  |  |  |  |
| --- | --- | --- | --- |
| **Iteration** | **Primary objectives** (risks and use case scenarios) | **Scheduled start or milestone** | **Target velocity** |
| I1 | **Software Vision & Project Plan**  Risk: Target work hours for some tasks can be underestimated.  Mitigate Risk: Having proper vision and plan documents minimizes the confusion between stakeholders and provides a better workflow. | 28/02/2017  –  7/03/2017 | 10 hours |
| I2 | **Software Requirements Document**  Risk: Requirements may be too hard for the developer team to implement.  Mitigate Risk: Having extensive documentation prevents confusion about the requirements. | 7/03/2017  –  14/03/2017 | 10 Hours |
| I3 | **Architectural Notebook & System Test Case Definitions**  Risk: If project members do not discuss test cases with clients, unexpected situations may arise about the project.  Mitigate Risk: Having the required test cases documented makes sure that every test case is satisfied. | 14/03/2017  –  04/04/2017 | 9 hours |
| I4 | **Software Design Description & Coding Standard**  Risk: Not choosing an appropriate programming language can make project implementation unnecessarily hard.  Mitigate Risk: Having a good software design, programming language and IDE can make project implementation easier. | 04/04/2017  –  25/04/2017 | 15 hours |
| I5 | **Software Test Report**  Risk: Not properly testing components can result to unreliable situations.  Mitigate Risk: Project tests should be done by test experts. Doing software tests in detail can eliminate unexpected behaviors. | 25/04/2017  –  16/05/2017 | 7 hours |

# Deployment

The finished product will be available for download from the GitHub repository along with a brief explanation about how to use the program. After installation, detailed user guide will be provided to users. Updates can also be downloaded from the same repository.

# Lessons learned

While preparing this document, we learned

1. To identify activities and tasks needed to produce each of the work packages,
2. To define roles and responsibilities,
3. To divide up responsibilities among the project members according to their abilities,
4. To estimate how long it will take to complete each task,
5. To estimate cost of each task, using an average hourly rate for each role.
6. To consider how much time each group member can realistically devoted to this project,
7. To develop a schedule.
8. To mark specific points along a project timeline,
9. To minimize the risk problems with thinking in detail.