



# **BBM 487 – SOFTWARE ENGINEERING LABORATORY**

## **LIBRARY BOOK LOAN SYSTEM PROJECT PLAN**

### **GROUP II**

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Project Plan	Date: 02/03/2017

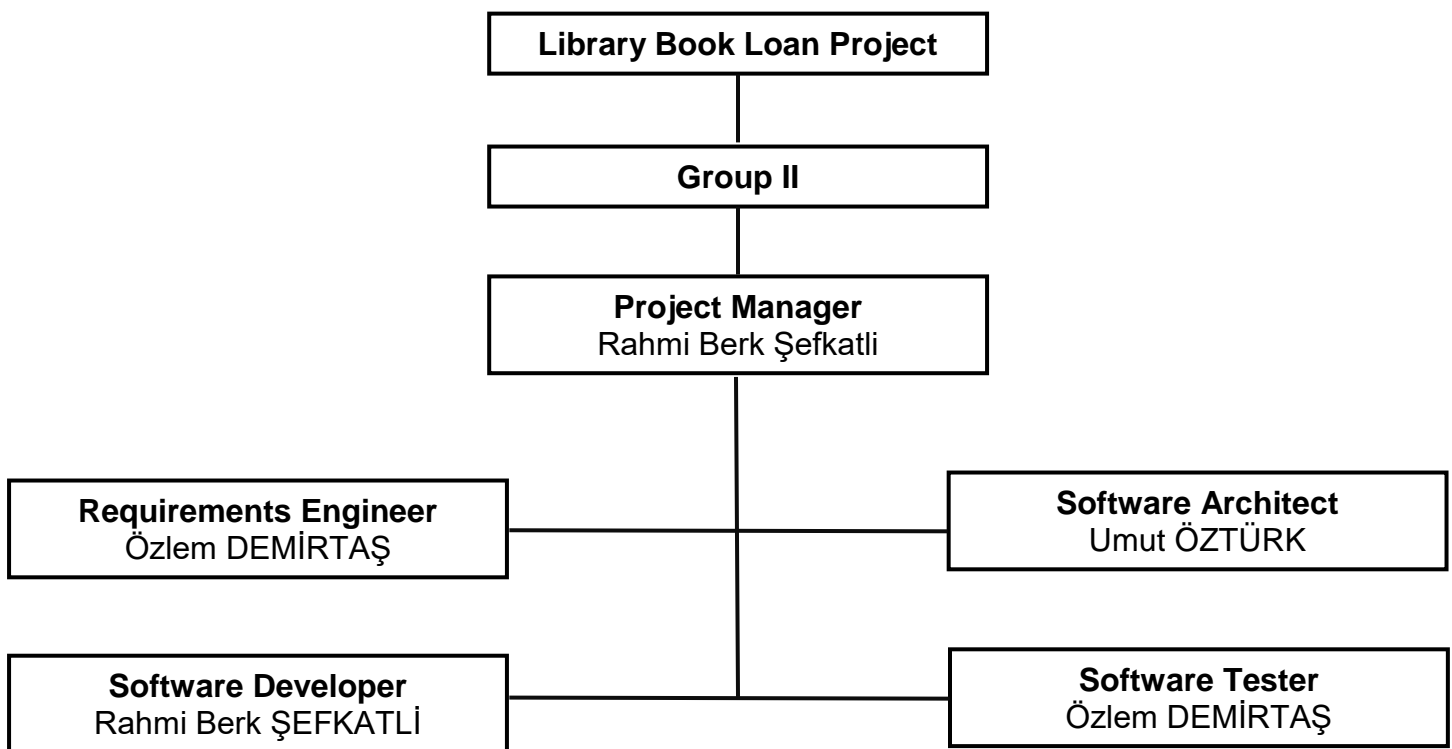
# Library Book Loan System

## Project Plan

### 1 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.

### 2 Project organization



**Figure I Project Organization**

This section has been supplied to add clarity to the organization and to identify current reporting relationships and responsibilities. Only the leaders of each role is shown.

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The project members are Özlem DEMİRTAŞ, Rahmi Berk ŞEFKATLİ and Umut ÖZTÜRK. The project is divided into five 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.

### 3 Project practices and measurements

We will be using iterative development approach. 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.

Tasks	Date Range	Work Load (week)	Hour/Work
Project Management	28/02/2017 - 16/05/2017	11 week	along the project
Requirements Documentation	28/02/2017 - 14/03/2017	2 week	10 hour/week
Architecture Design	14/03/2017 - 04/04/2017	3 week	9 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**

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#### 4 Project milestones and objectives

Iteration	Primary objectives (risks and use case scenarios)	Scheduled start or milestone	Target velocity
I1	<b>Software Vision &amp; Project Plan</b> 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	<b>Software Requirements Document</b> 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	<b>Architectural Notebook &amp; System Test Case Definitions</b> 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	<b>Software Design Description &amp; Coding Standard</b> 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	<b>Software Test Report</b> 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

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## 5 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.

## 6 Lessons learned

While preparing this document, we learned

- I. To identify activities and tasks needed to produce each of the work packages,
- II. To define roles and responsibilities,
- III. To divide up responsibilities among the project members according to their abilities,
- IV. To estimate how long it will take to complete each task,
- V. To estimate cost of each task, using an average hourly rate for each role.
- VI. To consider how much time each group member can realistically devoted to this project,
- VII. To develop a schedule.
- VIII. To mark specific points along a project timeline,
- IX. To minimize the risk problems with thinking in detail.