Kabook
Project Plan

1 Introduction

This document is the Project Plan document which involves information about our "Online Book Store" project. It clarifies specific strategies and milestones for the project. Below this section, we discussed the crucial parts of our project and provided some necessary information such as project organization, development process and measurements etc.

2 Project organization

Team Members:

H. Batuhan AYDIN 21626967

Berkcan ERBOL 21627193

Emirhan ARTAN 21783173

Mertcan KOÇER 21627471

Eren ÖZGER 21427215

Team Member	Software Developer	Software Project Manager	Software Architect	Software Tester	Software Configuration Manager	Software Analyst
Batuhan Aydın	X	X				
Emirhan Artan	X					X
Berkcan Erbol	X			X		
Mertcan Koçer	X		X			
Eren Özger	X				X	

3 Development process and measurements

Model-View-Controller (MVC) architectural pattern will be used for this system. MVC is a commonly-used software design pattern for developing user interface. This pattern has three interrelated elements. These are Model, View and Controller.

Model: This element is the part where the objects will be used in project is created.
View : View part is a design part that user will be interacted.
Controller: It is the control section where all the transactions (database operations, calculations, data transfer etc.) are done in the project. The controller also controls the data flow between the model and the view.

Github flow will be used for tracking the progress throughout the development process, in this specific approach each developer has it own branch, via pull request discussions will be handled, beside Github flow, we will arrange two meetups every week which takes place on Thursday and Saturday. If any crisis occurs in order to solve the crisis we will organize additional meetings along the development process.

4 Project milestones and objectives

Phase	Iteration	Primary objectives (risks and use case scenarios)	Scheduled start or milestone	Target velocity
Database Management	L1	Objectives - Proper Database Design - Encryption Use Case 1: Architectural Design of Booking Store System Use Case 2: Elimination of redundant data and avoid redundancy Use Case 3: User passwords will be encrypted for security. Mitigate Risk: - Security Problems in the system - Bad architectural design that does not allow developing application properly.	DEL2-DEL5	2 weeks
Account Management	I1	Objectives - Badge System - Account Settings - Authorization Use Case 1 :The system shall give a warning when the user enters wrong login id and/or password.	DEL2 - DEL5	2 weeks

		Use Case 2: Different actions for different user type Use Case 3: User is able to change account information. Mitigate Risk: - Invalid Password/UserName - Violation of Privacy - Incorrect or incompatible account information		
Payment	I2	Objectives: -Account Balance System -Credit Card System Use Case 1: Integrating a third-party application to the website which is used for making secure payment. Use Case 2: Users should be able to deposit money into their account balances. Use Case 3: Users should be able to pay with either credit card or their account balance. Mitigate Risk : - Unsafe payment options.	DEL4 - DEL5	3 weeks
Products Management	I3	Objectives: - Auction System - Discount Coupon System - Categorization and filtering operations - Virtual shopping cart creation - Gift System	DEL2 - DEL5	5 week

		- Credit System - Wishlist Use Case 1: Customers should be able to purchase books by auction. Use Case 2: Customers should be able to use the discount coupons provided by websites. Use Case 3: Users should be able to search and categorize books so that they can access the book -they are looking- for more easily. Use Case 4: A virtual shopping cart will be created to enable customers to buy multiple products. Use Case 5: Users should be able to buy gifts for each other, especially on special days such as birthdays, anniversaries etc. Use Case 6: We give credit to encourage users to buy books and provide discount. Use Case 7: Users should be able to add desired books to their wishlist. Mitigate Risk: - Failures in stocks such as purchasing out of stock products. - Invalid coupon inputs such as trying to reuse same coupon or a coupon that has never been created. - Failures in Budget Management. - Trying to send gift to invalid user. - Problems in bidding.		

Feedback Management	I3	Objectives: - Rating - Comment - Support Use Case 1: Customers can rate books. Use Case 2: It is possible to make a comment for a book. Use Case 3: User is able to consult or complaint about products to support service Mitigate Risk: -Long wait for support -Low/High Rating Repetition -Inconvenient Comments Management	DEL2 - DEL5	2 week
Promotion		Objective: -Book recommendation system Use Case 1: Highest rated books should appear on the home page. Mitigate Risk: - Books with less than a certain number of reviews shouldn't appear on the home page.	DEL2 - DEL5	1 week

5 Deployment

We will use github flow for deploying our system. Each group member may improve the project by his/her new-ideas. To make a change in the project, each individual developer creates a branch. These branches don't affect the master branch, until it's merged. This feature provides us the ability of working freely on our ideas in a safe way. After essential tests and assessments are made, developer branch is ready to merge with master branch. Master branch is a ready-to deploy product.

6 Lessons learned

All group member must acknowledge the coding formatting pattern for better understanding of collective code components, additionally entire group must understand core software architecture for better understanding of other's code.The biggest problem for the team here is coding the project software in a way that every member can make changes on it and understand it. Team collaboration is crucial for this project. It will provides us to proceed faster.To handle this crisis, our plan is to use GitHub more effectively. For the database management, we will use a platform that provides us collaborative work.