Service-Oriented Software Engineering (Project Proposal)

Meeting-Room Booking System

Group Members (2): ZijiaHe, WangZhihuimei

1 Project Charter

Project Title: Meeting-Room Booking System
Date of Authorization: March 1
Project Start Date: March 18
Project Finish Date: May 5
Key Schedule Milestones:
(1)Preparations Completed by April 3
(2)Demo Version completed by April 28
(3)Officially released
Budget Information: The firm has allocated **RMB56800** for this project,and more funds are available if needed.The majority cost for this project will be internal labor.
Project Manager:Wangzhihui Mei,your email; **Zijia He**,296344774@qq.com
Project Objectives: Meeting-Room Booking System is a system that JI urgently needs. Our goal is to develop this system within two months
Main Project Success Criteria: The software can perfectly realize the functions of registering, logging in, booking classroom, unsubscribing classroom, and checking classroom status. At the same time, the entire project can be completed on schedule.
Approach: (1)Planning the time in advance to ensure that the deadline can be completed as scheduled
(2)Determining the framework and technology used as early as possible.Drawing a Gantt chart to clarify the overall workflow and progress.
(3)Holding a meeting once a week to ensure that the construction period is as usual (4)Perform a series of tests for each new function

ROLES AND RESPONSIBILITIES		
Name	**Role**	**Contact Information**
Zijia He	Test engineer,Front-end engineer	296344774@qq.com
Wangzhihui Mei	Project Manager,Front-end engineer,Backend engineer	Your@email.com

2 Project Plans

2.1 Project Scope Statement

Product scope description
The software developed in this project is used to book classrooms for JI students.The main functions of this software are user registration, user login, book classroom, unsubscribe classroom, and view the current classroom status.When the user has no registered member, they can only browse the classroom status and cannot book the classroom.When a classroom is booked, the classroom can only be booked again unless the applicant unsubscribes from the classroom or exceeds the

scheduled usage time. Otherwise, the classroom will show the status of reservation.

Product user acceptance criteria
Target Dates: The first version of this system should be completed by April 28 and the final version should be completed by May 5.
Major function: This system is divided into client and administrator.On the client side, the client can select the classroom, unsubscribe the classroom, and view the current status of the classroom.The administrator can view the user's reservation records and the current classroom status, and can force the user to unsubscribe.

Detailed information on all project deliverables: 1.Project Charter
2.Project Scope Statement
3.Project Schedule
4.Cost Management Plan
5.Human resource plan
6.Microsoft Project outputs for project schedule
7.Microsoft Project outputs for Cost Management
8.Microsoft Project outputs for Human resource allocation
9.Project progress report
10.Project closing and lessons-learnt
11.Meeting-Room Booking System
12.Tutorial of using Meeting-Room Booking System

2.2 Project Schedule

Schedule				
Number	**Task**	**Start Date**	**Finish Date**	**Participant**
1	Demand Analysis	18/3/2020	30/3/2020	Zijia He,Wangzhihui Mei
2	Architecture Design	23/3/2020	27/3/2020	Zijia He,Wangzhihui Mei
3	UI Design	30/3/2020	3/4/2020	Zijia He,Wangzhihui Mei
4	Server Development	6/4/2020	14/4/2020	Wangzhihui Mei
5	Unit Test	6/4/2020	14/4/2020	Zijia He
6	Front-End Development	6/4/2020	14/4/2020	Zijia He,Wangzhihui Mei
7	API Adaptation	15/4/2020	23/4/2020	Wangzhihui Mei
8	Bale	24/4/2020	27/4/2020	Wangzhihui Mei
9	Pressure Test	28/4/2020	28/4/2020	Zijia He
10	Integration Testing	29/4/2020	1/5/2020	Zijia He
11	Code Review	4/5/2020	5/5/2020	Wangzhihui Mei,Zijia He

2.3 Cost Management Plan

Level of accuracy units of measure: RMB
Control Threshold: RMB100000
Rules of performance measurement:
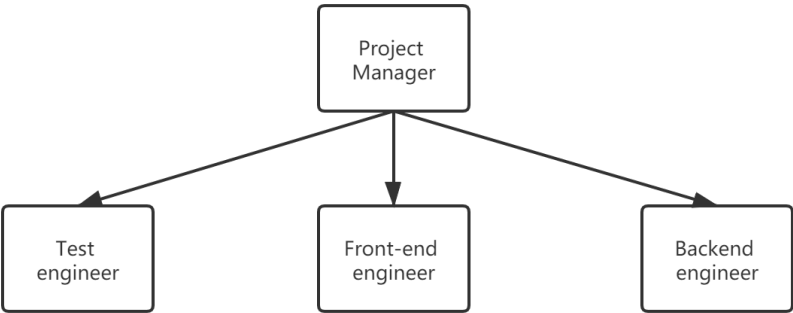(1)Whether the staff completed the work on time
(2)The number of bugs in the test
Budget:
Salary:RMB56800

Maintenance Cost:RMB10000
Image copyright:RMB200

2.4 Human resource plan

Staffing management plan:
Project Manager:
   Determine what kind of product to develop, what business model and business model to choose, etc. And promote the corresponding product development organization, he also needs to coordinate research and development, marketing, operation, etc. according to the product life cycle, determine and organize the implementation of the corresponding product strategy, and other related product management activities.
Test engineer: Test engineers should write test plans, plan detailed test plans, and write test cases. In addition, the test engineer needs to put forward suggestions for further product improvement and evaluate whether the improvement plan is reasonable; summarize and statistically analyze the test results, track the test, and provide feedback.
Front-end engineer: The front-end engineer is responsible for the layout design, page design and interaction design of the system ui.
Backend engineer: The back-end engineer is responsible for the background construction, database management, API management.

Responsibility assignment matrixes				
Task	Project Manager	Test engineer	Front-end engineer	Backend engineer
Demand Analysis	P,R	P	P	P
Architecture Design	P,R	P	P	P
UI Design	P	P	P,R	P
Server Development	N	N	N	P,R
Unit Test	N	R,P	N	N
Front-End Development	N	N	P,R	N
API Adaptation	N	N	N	P,R
Bale	N	N	N	P,R
Pressure Test	N	P,R	N	N
Integration Testing	N	P,R	N	N
Code Review	N	P	P	P,R

Table 1. R:Responsibility N:None P:Participate

3 Project execution