RESERVA PROJECT PLAN

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Fontys ICT & Software Engineering S2-CB07

Version history

Version	Date	Author(s)	Changes	State
1	08-03-2024	Timothy Thijsen	Started project plan	First draft
2	04-04-2024	Timothy Thijsen	Made changes based on feedback	Missing some required fields

Distribution

Version	Date	Receivers
1	08-03-2024	WKS teacher
2	05-04-2024	WKS teacher

Contents

1 Project Assignment

1.1 Client

Client for this project is from the company Reserva with the main stakeholders being OOD, WAD and WKS teachers.

1.2 Current situation

Currently Reserva is a brand-new company aimed towards having a platform to facilitate the process of reserving a room for a hotel stay while also providing some additional features for clients. Their focus is to have an online reservation site and a place to view these available rooms. Currently due to being a brand-new company they don't have any application to fulfil their requirements.

1.3 Problem description

Because it is going to be an online booking application, they would require a web application to provide users with a web application where they can make reservation for a hotel of their choosing. And another problem they have right now that they would need a desktop application for the administration and maintaining of the web application.

1.4 Project goal

The end goal for this project is to have a web application for their online booking application. This should be accompanied by a desktop application for employees. Both should be connected by having a database where the data for their platform will be stored and accessed. Hopefully, by completing this end goal, the company can achieve their main goal which is providing a platform where users can have an easier time with booking a room for various hotels and for the owners to have an easier time offering these rooms to their potential clients.

1.5 Scope and precondition

Inside scope:	Outside scope:
1 Desktop application	1 Mobile application
2 Web application	2
3 Intergration of database to applicaitons	3

1.6 Strategy

For the development of Reserva I will be using a scrum approach.

Reasons for this choice:

1. **Flexibility:** Being able to quickly adapt to changes. In a project where requirements may evolve as the development progresses.
2. **Incremental Development:** With the use of sprints, it makes a large project more manageable by dividing the workload in cycles that lasts a few weeks. This way allows continuous delivery of features.
3. **Risk Management:** By delivering working software at the end of each sprint, the potential risks are identified early. The iterative nature of Scrum allows for course correction based on feedback, reducing the likelihood of major project setbacks.

2 Project organisation

2.1 Stakeholders and Team members

Name	Abbreviation	Role and functions	Availability
Timothy Thijsen Email: 504835@student.fontys.nl	T.T	Developer, Team member	Monday – Friday (9:00 – 16:00)
Hanane Ezzikouri		Stakeholder, WKS	Wednesday (9:00 – 12:00) Friday (14:30 – 16:00)
André Postma		Stakeholder, OOD	Wednesday (13:00 – 16:00) Thursday (9:00 – 12:00)
John Wijnen		Stakeholder, WAD	Monday (9:00 – 12:00) Wednesday (13:00 – 16:00)

2.2 Communication

The availability of meeting with teachers in person are as set in the table. There is also the possibility to contact teachers in Teams and emails throughout the week if required.

3   Deliverables

- Windows desktop application
- Web application
- Database
- Ideation document
- User Requirement Specifications
- Test plan & Test report.

3.1   MoSCoW

Must have:

- Desktop application
  - Rooms managing functionality.
  - Hotels managing functionality.
  - Employee management functionality.
  - Member overview
- Web application
  - Display rooms.
  - Member management functionality.
  - Login.
  - Room booking functionality, including a booking id code generator.
  - Account overview for members.
  - Booking scheduling for rooms
  - Dynamic room pricing feature.
- Database

Should have:

- Desktop application
  - Account overview for employee.
  - Activities management functionality.
  - Login
- Web application
  - Points system.
  - Dynamic point system.
  - Dynamic hotel search.
  - Display activities.
  - System for redeeming points.
  - Activities booking
  - Booking scheduling for activities

Could have:

- Desktop application
  - Financial statistics
- Web application
  - Reviews for hotels
  - Employee account overview

Will not have:

- A mobile application to accompany booking process and overview of trip.

4   Non-deliverables

I am not planning to deliver the following:

- User manuals.
- Mobile application
- Integration with legacy systems.
- Computers and hardware.

5   Constraints

This project plan is for my individual assignment for semester 2. So, it will be worked on by 1 person. I have a deadline on 14th June 2024.

All programmed components should be easy to understand and clean for any future maintenance needed on the code base. Whilst also allowing the code to be easily scalable for any future features that may be added. The code should also be properly implemented according to OOP principles.

Technical constraints:

- Microsoft ASP.NET Razor Pages for our web application.
- Microsoft Windows Forms for the Desktop application using C#.
- Microsoft SQL Server 2019 for our database server

6 Phasing

Name	Feb, 2024			Mar, 2024				Apr, 2024					May, 2024				Jun, 2024	
	12 Feb	18 Feb	25 Feb	03 Mar	10 Mar	17 Mar	24 Mar	31 Mar	07 Apr	14 Apr	21 Apr	28 Apr	05 May	12 May	19 May	26 May	02 Jun	09 Jun
▼ Design																		
Ideation																		
UML class diagram																		
URS																		
Test plan																		
Project plan																		
▼ Implementation																		
Desktop Application																		
Web aplication																		
Database																		
Testing																		
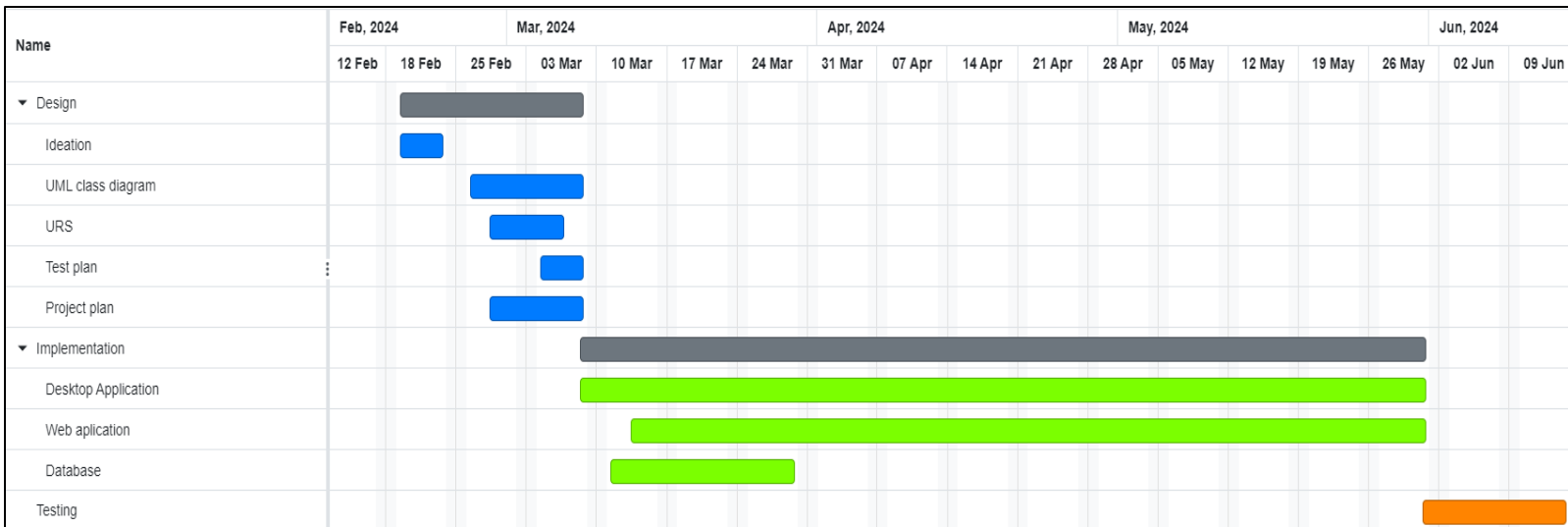
6.1 Design

Time: 14th of February 2024 up to and including 8th of March 2024. During this phase of the project, I would have documented all requirement for my applications. And have created a project plan.

6.2 Implementation

Time: 8th of March 2024 up to and including 31st of May 2024. During this phase I will be implementing the features I have previously listed in the documents. Priority of implementation will go according to MoSCoW table.

Week 4-6

- Database.
- Rooms managing functionality.
- Hotels managing functionality.
- Display rooms on web application.

Week 7-9

- Member management functionality.
- Employee management functionality.
- Have user's account overview.
- Implement scheduling/reservation logic.
- Booking id generator

- Point system.

Week 10-12

- Login for Desktop and webpage.
- Dynamic pricing algorithm.
- Activities management functionality.
- Display activities.

Week 13-15

- Activities booking
- Dynamic point system
- Statistics.

6.3 Testing

Time: 31st of May 2024 up to and including 14th of June 2024. During this phase I will be testing the final version. And making required changes and fixes.

6.4 Final

The final version of my application will be delivered on 14th June 2024.