Project plan

Booking.com

Version 1

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Project assignment

Context

The client has requested for a hotel booking site where users can book hotels, rooms, holiday homes and renters can publish their property on the site. There are a few competitors in the market such as travago etc, but the client wants a personalised site with a few unique features which are not available on other platforms.

Goals of the project

The project aims to develop a web-based booking application that allows users to search, book, and manage various types of accommodations, such as hotels, vacation rentals, and hostels. The application will provide a user-friendly interface for travelers to discover, plan, and book accommodations, while also enabling property owners to list their properties and manage bookings.
The following are the project goals
1. To help users with booking hotels, making reservations, holiday homes etc
2. To empower property owner so that they can enlist their homes/ hotels for a small fee on this site, set price, communicate with guests etc
3. Be a marketplace for property owners and renters

Scope and preconditions

Deliverables	Non deliverables
A working website	Hardware for running the program
Documentations	The server for hosting the website
The source code	

Strategy

The project will be developed using the Scrum, an Agile methodology, to facilitate iterative development. Because I am the sole worker for this project, I will assume the role of developer, project manager, scrum master and product owner. At the end of each sprint I will deliver an iterative version of the application.

Constraints

1. Time: The project should be completed within a specified timeframe, here which is by the beginning of week 18.(5 sprints)
2. Resources: The project should be completed using the resources available, which are - Java, Javascript.
3. Compatibility: The website should be compatible with various web browsers(chrome 2.0, safari 2.0, firefox 2.0) and Os(windows, mac).

Project organization

Stakeholders and team members

The stakeholders - For this project the stakeholders Faruk, Felipe, Marcus and Marcio.
Team members - I am the sole worker for this project

Communication

The primary mode of communication between my stakeholders and I would be through in person meetings at Fontys. We will also be using MsTeams and email to communicate when in person meeting is not possible.

Project planning

Phasing

Sprint 1
- Project plan
- Research

- Setting up development environment
- 3 restful services.

Sprint 2 to sprint 4 : I will be working on the use cases and adding new features to the application

Sprint 5 : I will be doing all kinds of testing such as user acceptance tests etc.

Testing strategy

1. **Unit testing** : the majority of the business logic will be unit tested.
2. **Integration test** : multiple software modules will be tested so that the application runs smoothly
3. **Testing controllers** : I will also be testing all the controllers
4. **User acceptance tests** : the application will be thoroughly tested by a test group before being deployed.

JUnit and CD/CI pipeline tools will be used.

Risk and mitigation

Risk 1: **Technical Challenges**
- Risk: Complex technical requirements or unfamiliar technologies can lead to development difficulties and project delays.
- Mitigation:
    - Conduct a thorough technical assessment and feasibility study before starting the project.
    - Invest in training or hiring experts in relevant technologies.
    - Implement regular code reviews and peer feedback to catch and address technical issues early.

Risk 2: **Schedule Delays**
- Risk: Unforeseen issues, such as illness or resource constraints, can lead to project schedule delays.
- Mitigation:
    - Develop a realistic project schedule with buffer time for unforeseen delays.
    - Regularly monitor progress and adjust the schedule as needed.
    - Identify critical path tasks and allocate additional resources to address any delays.

Risk 3: **Stakeholder Misalignment**

- Risk: Differences in stakeholder expectations and objectives can result in misalignment and project disruptions.
- Mitigation:
    - Establish clear communication channels and hold regular meetings with stakeholders.
    - Document and review project objectives and requirements to ensure alignment.
    - Address conflicts and concerns proactively through effective communication and negotiation.