

PROJECT SUMMARY

-Homework Assignment 1-

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1.Introduction

The purpose of this document is to give a brief introduction about the web application AmazeStay which will be used for listing hotels available for accommodation located in Macedonia.

Looking for accommodation might be problematic sometimes, therefore, with this web application, we are introducing a simpler and an easier way to search for available hotels in Macedonia. Local and international tourists will have a major benefit from this web application because, on demand, AmazeStay will provide them with a detailed list of all places which are available for booking.

In order to show all of the available places in the area, AmazeStay will use navigation and geolocation. OpenStreetMap will be used to fill the database with the necessary data. The supported web browsers for this web app will be Google Chrome, Mozilla Firefox, Internet Explorer, Microsoft Edge, Safari and the system will be responsive for mobile browsers.

Filtering and sorting functionalities will be implemented for better user experience and once the user makes their choice (they choose the hotel where they would like to stay), they will be redirected to the appropriate page on [Booking.com](https://www.booking.com) to finalize their reservation.

Our aim is to make the booking accommodation process quicker, more convenient and extremely user-friendly by implementing a web application which is maintainable, scalable and reliable.

2.Requirements

2.1 Functional Requirements

FR_1) The system shall provide user management.

FR_2) The system shall allow registration of new users.

FR_3) The system shall allow logging in for existing users.

FR_4) The system shall support two types of users: administrator and user.

FR_5) The system shall enable the administrator to add new hotels.

- FR_6) The system shall enable the administrator to delete existing hotels.
- FR_7) The system shall provide information about all hotels in Macedonia.
- FR_8) The system shall provide a searching functionality for the hotels.
- FR_9) The system shall provide a sorting functionality for the hotels.
- FR_10) The system shall provide a filtering functionality for the hotels.
- FR_11) The system shall provide a description about each hotel.
- FR_12) The system shall provide images from each hotel.
- FR_13) The system shall provide a map with the location of each hotel.
- FR_14) The system shall enable redirections to corresponding pages on Booking.com.
- FR_15) The system shall enable the users to leave comments about the hotels.
- FR_16) The system shall enable the users to rate the hotels.
- FR_17) The system shall enable the administrator to edit information about existing hotels.

2.2 Non-functional Requirements

- NFR_1) The system shall support 2000 simultaneous users in normal workload.
- NFR_2) Less than 20 seconds shall be needed to restart the system after a failure 95% of the time.
- NFR_3) The system shall be secured from outside attacks and unauthorized access.
- NFR_4) The system shall identify users before redirecting them to the payment method.
- NFR_5) The system shall permit access to all users using a web browser that is version 4.0 or higher.
- NFR_6) The system shall be accessible from both PC and smartphone.

NFR_7) The system shall meet or exceed 99.9% uptime.

NFR_8) The system shall display the locations of the hotels with 99% accuracy.

NFR_9) Less than 15 seconds shall be needed for the system to proceed with an action.

NFR_10) The system shall be written in Java Spring Framework.

NFR_11) The system shall use MongoDB database for storing data about hotels and clients.

NFR_12) The system shall interact with external services (booking.com).