



# Booking platform

-Semester 3 Individual Project-

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## Versioning table

Sprint	Version Description	Date
1	Initial back-end setup. Connected database with JPA; Authentication and Authorization with JWT; simple CRUD endpoints for the admin to manage users.	9-17-2021
2	API endpoints for login/register, connected to React pages; Backend preparation: Initial hotel, room and booking entities + mapped DTOs;	10-08-2021
3	Creating a hotel and adding rooms. Page restriction based on the JWT/ role of the logged in account	11-05-2021
4	Implemented interfaces for the services. SonarQube integrated to CI/CD pipeline. Front-end setup for the booker role	11-26-2021
5	Implemented chat function, searching and booking a hotel room. Viewing booking history as booker, updating a hotel/room as manager.	12-18-2021
6	Cancelling a booking as booker, complete app with statistics and overall charts and information for hotel manager's hotels	01-13-2022

## Project Description

The scope of this project is concerning an innovation in the tourism industry. A website which includes not only booking, but it is rather a combination of all tourism websites. Forum where people can discuss destinations and their tours, share ideas and give reviews. Chat, where administrators and moderators can discuss important topics and decisions, and simultaneously the bookers can also communicate with each other, as well as requesting support from the moderators. A unique 'Trip Guide' system, which will conduct a full trip with activities, routes and schedule based on the user's account details, requirements and reviews of other people in the 'iTripGuide' system.

The website will be used as a social media, which simultaneously people are using to manage their trips. The system will also be made in a form of a game, where people can improve their account level and gain achievements from certain actions taken through their profile.

## Project Goal

The goal of this project is reflected on how well I can implement new technology methods to build the following features:

1. Administrative system
  - Overview of website traffic, financial and performance statistics
  - Creating different role accounts and managing them
  - Managing achievements that a booker can gain
2. Hotel management system
  - Financial overview of hotel manager's adverts performance
  - Managing hotel advertisements as hotel manager
3. Forum management system
  - Managing different categories, topics and threads inside the topics
  - User/comment reports handling
  - Forum performance overview
4. Booking system
  - Booking of accommodation/trips
  - History log of account bookings
5. Account leveling system
  - Level information and status
  - Achievements log and status
6. Trip Guide system
  - Conducting a customizable trip for the booker's chosen location by the following criteria:

- Selected location
- Selected hotel(optionally) by the user
- Activities at the area during the time period selected by the user (extracted from the forum)
- User's account details
- User's selected filters
- Reviews and recommendations from the forum