Requirements:

* Hotel admins
  + Login/Register
  + Add new hotels
    - Hotel location is displayed through Google Maps
  + Add reservation information of hotels
    - Decides which reservations need pre-payment
* Travelers
  + Register/Login
  + Travelers can reserve hotel rooms
    - A traveler can reserve multiple rooms without overlapping time
  + Travelers can cancel reservations
* System admin
  + Check hotels
  + Check hotel reservation information
  + Check hotel reservations

Services

* Users Service
  + Customers do CRUD on their profiles
* Hotels Service
  + Hotel admins do CRUD on hotels
  + Hotel admins do CRUD on their hotels’ reservations information
* Hotel Reservations Service
  + Travelers can reserve rooms
  + Travelers can cancel reservations
* Taxi Service
  + Travelers can reserve taxis

Users Service

* Endpoints
  + Get / - get all users
  + Get /{id} – get user by id
  + Post / - body: create user DTO - create user
  + Patch / - body: update user DTO – update user
  + Delete /{id} – delete user

Hotels service

* Endpoints
  + Get /{hotel id}/reservations - get all reservations of a hotel
  + Get /{hotel id}/reservations/{id} – get reservation by id
  + Post /{hotel id}/reservations - body: create reservation DTO - create reservation
  + Patch /{hotel id}/reservations/{id} - body: update reservation DTO – update reservation
  + Delete /{hotel id}/reservations/{id} – delete reservation

Reservations service

* Endpoints
  + Get /customers/{customer id} - get all reservations of a customer
  + Get /{reservation id} – get reservation by id
  + Post / - body: create reservation DTO - create reservation
  + Patch /{reservation id} - body: update reservation DTO – reservation user
  + Delete /{reservation id} – delete reservation

Frontend pages

* Common
  + Create an account – one page for both travelers and hotel admins
  + Login page
  + View hotels list
    - Travelers, admin: view all hotels
    - Hotel admins: view their hotels and hotel option
  + View single hotel and its reservations
    - Admin: just view
    - Travelers: book a reservation option
    - Hotel admin: edit and delete hotel and add, edit reservations options
* Hotel admins
  + Add hotel page
* Travelers
  + View bookings
  + Booking and payment page

Frontend dialogs

* Add or edit reservation dialog