

A long-exposure photograph of a city street at night. The image shows multiple lanes of traffic with light trails from cars and streetlights. Tall skyscrapers with illuminated windows and facades line the street. The overall scene is vibrant with blue and yellow light. A semi-transparent blue box with a circuit-like pattern is overlaid on the left side, containing the title text. A white arrow points downwards on the road surface in the lower right area.

# PowerEnjoy

## Design document

Alessandro Caprarelli, Roberta Iero, Giorgio De Luca





# Table of content



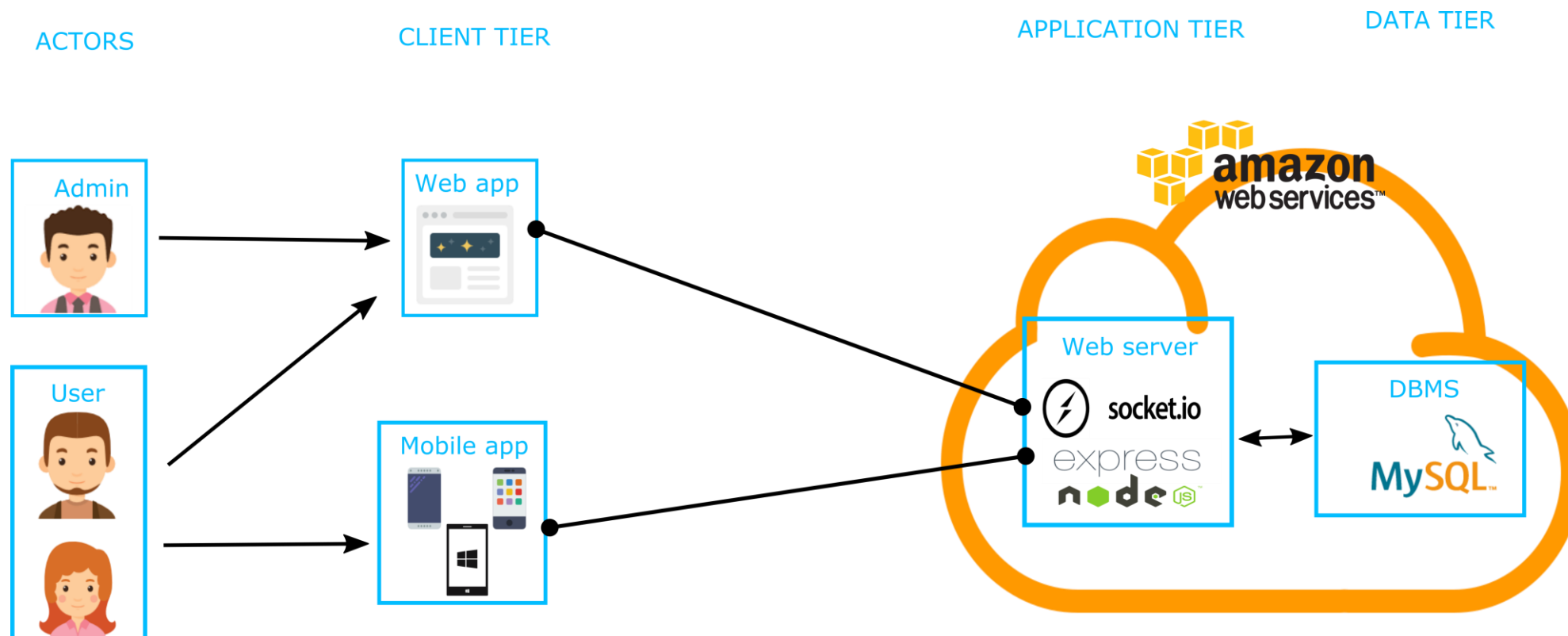
- Architectural design 3
- Algorithm design 7
- User interfaces 11

# Architectural design



- **Architectural design** 3
  - High level view
  - Component view
  - Deployment view
- Algorithm design 7
- User interfaces 11

# High level view





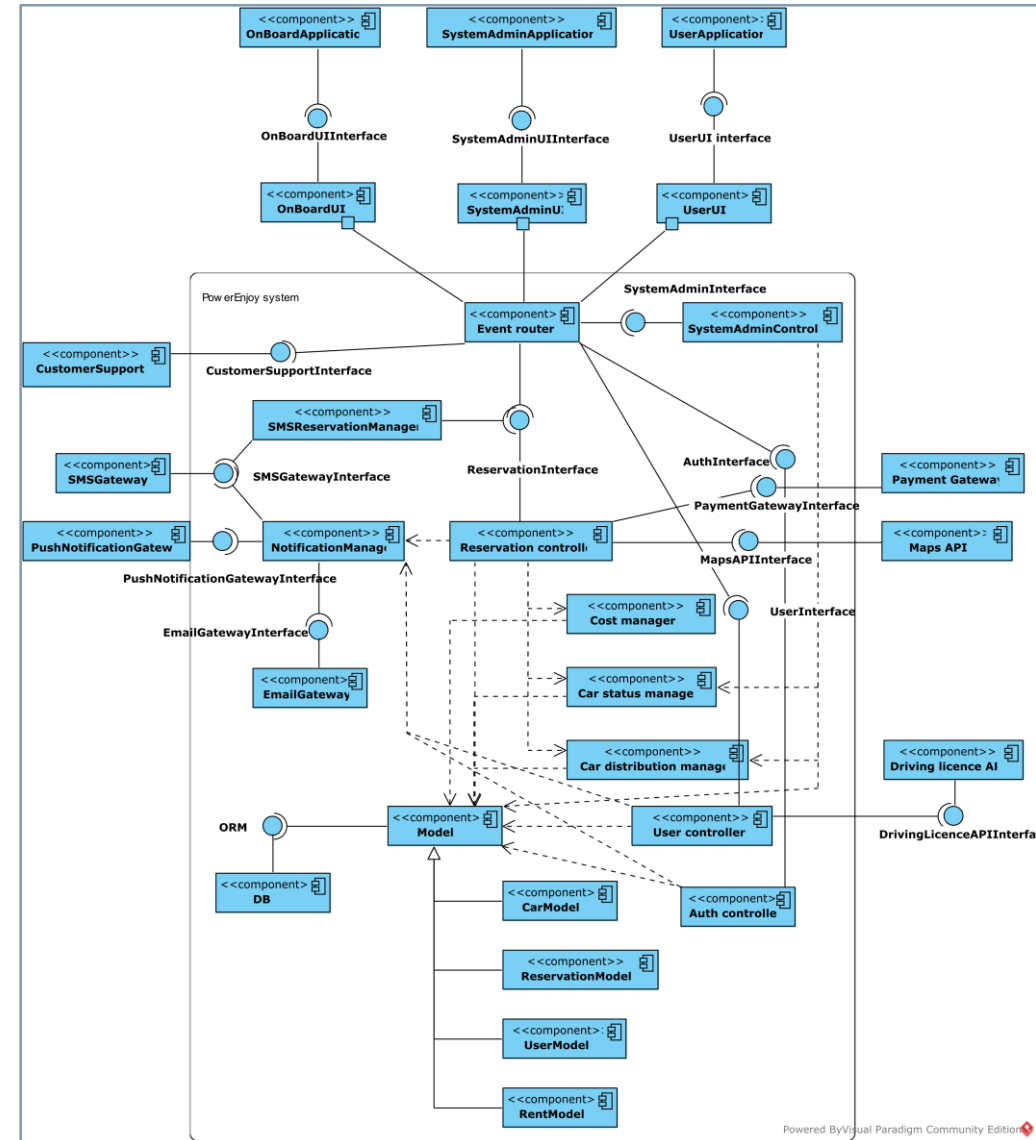
# Component view

Main components:

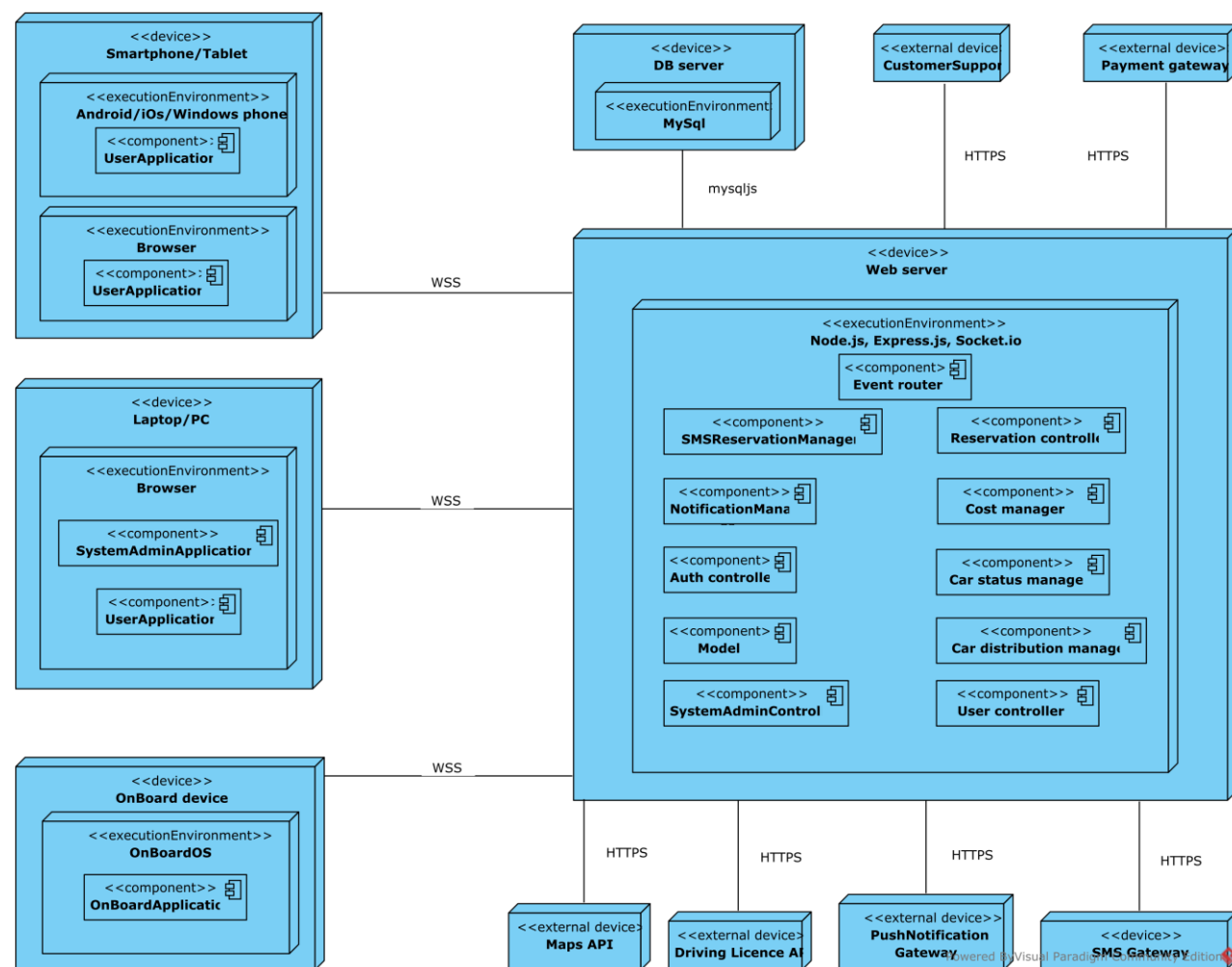
- Event router
- AuthController
- UserController
- SystemAdminController
- ReservationController

External components:

- PaymentGateway
- Maps API
- Driving licence API
- SMSGateway
- PushNotificationGateway
- CustomerSupport



# Deployment view

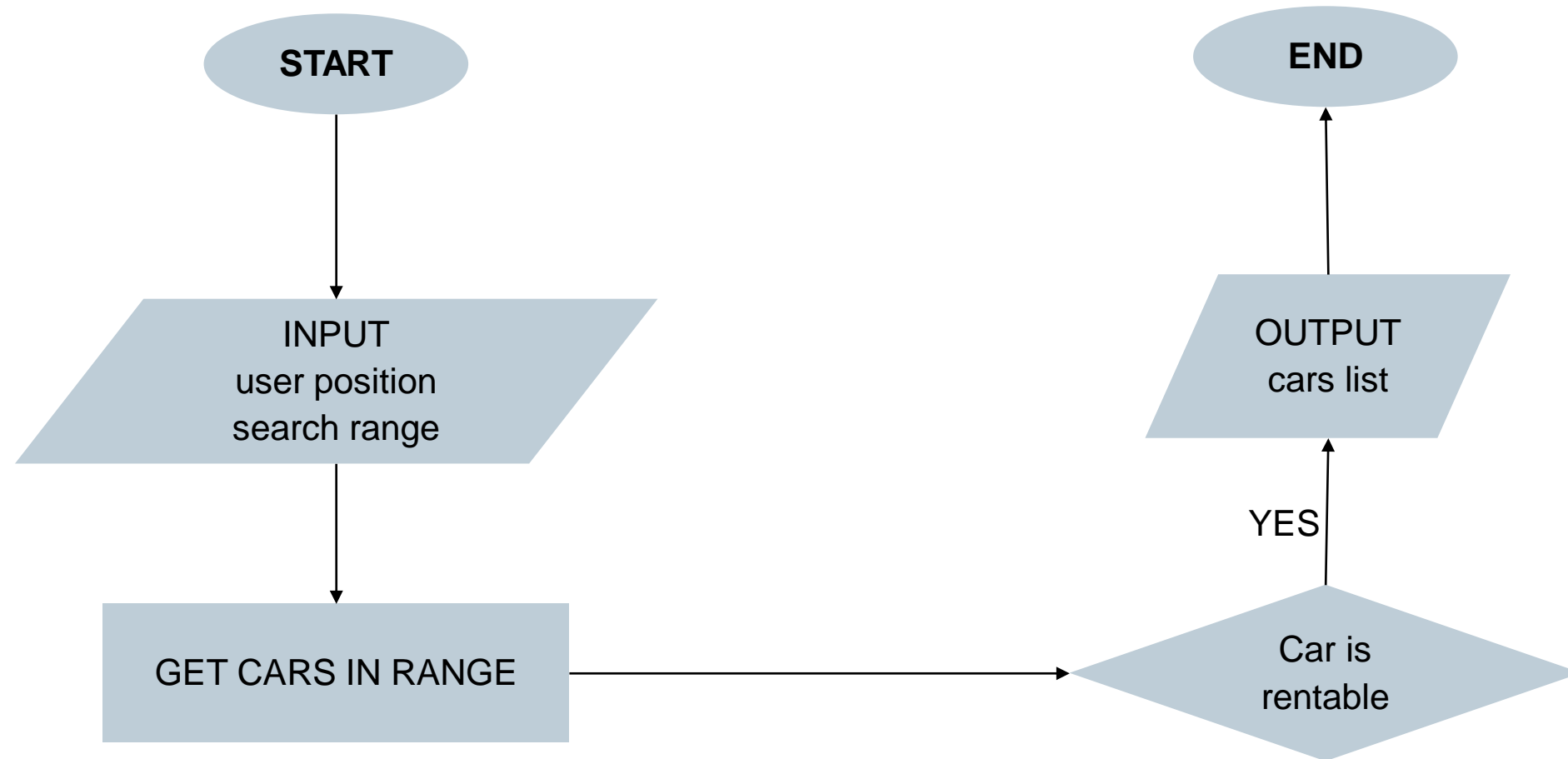


# Algorithm design



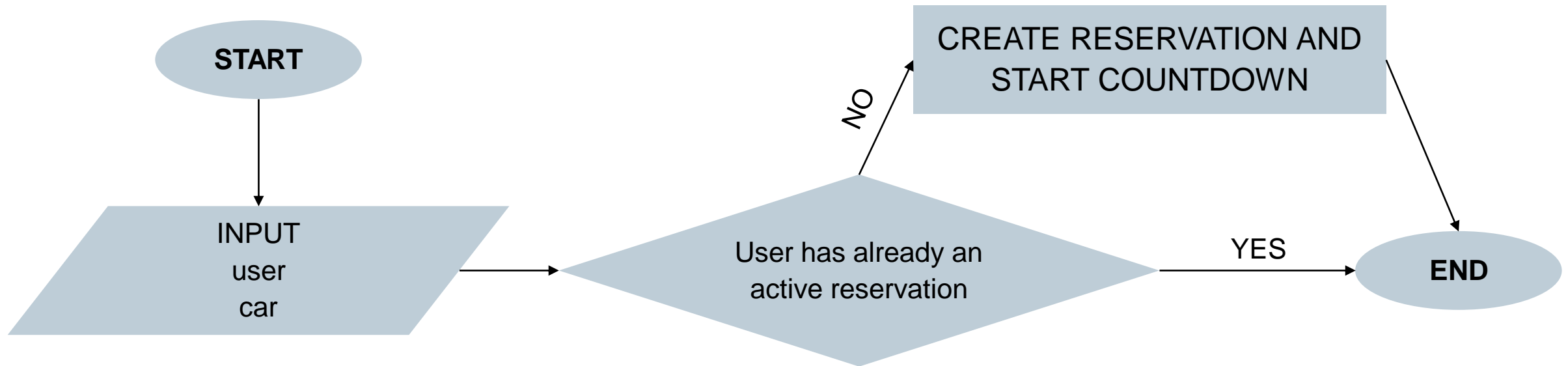
- Architectural design 3
- **Algorithm design** 7
  - **getCarsListInARange**
  - **submitReservation**
  - **calculateDiscount**
- User interfaces 11

# getCarsListInARange

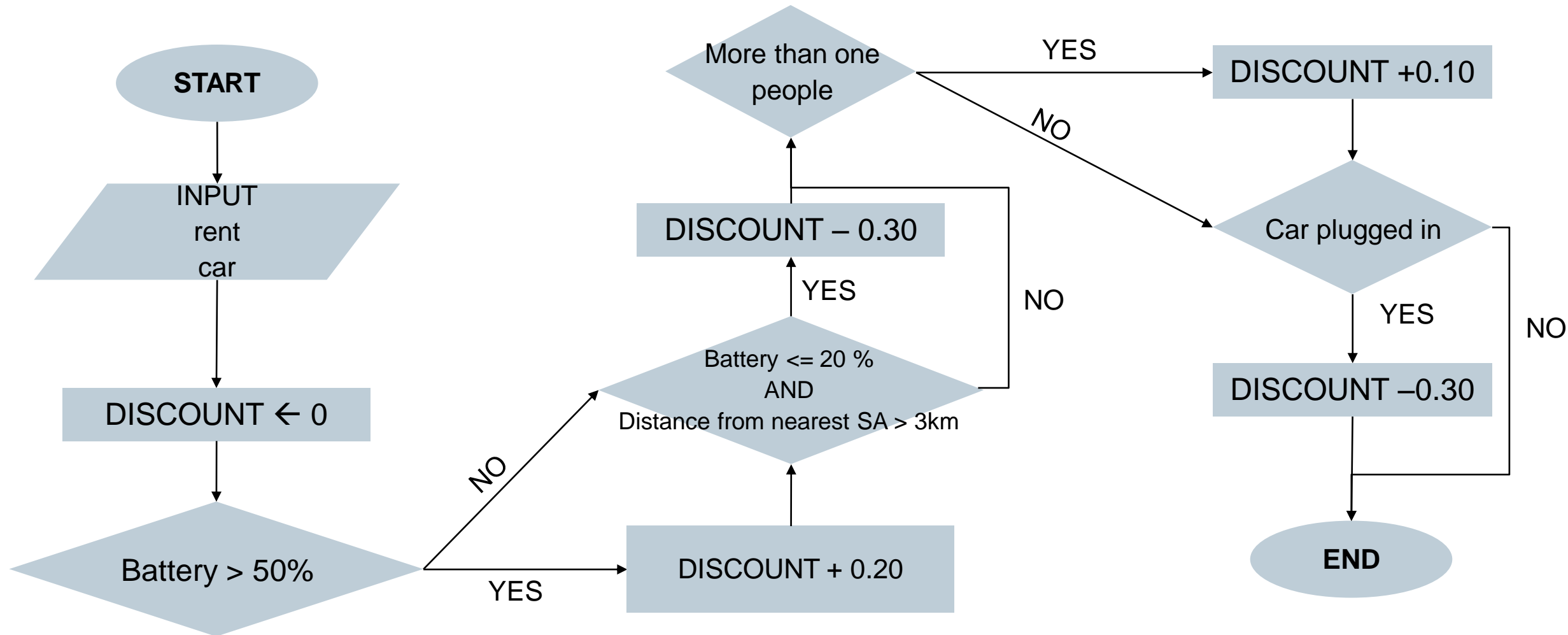




# submitReservation



# calculateDiscount



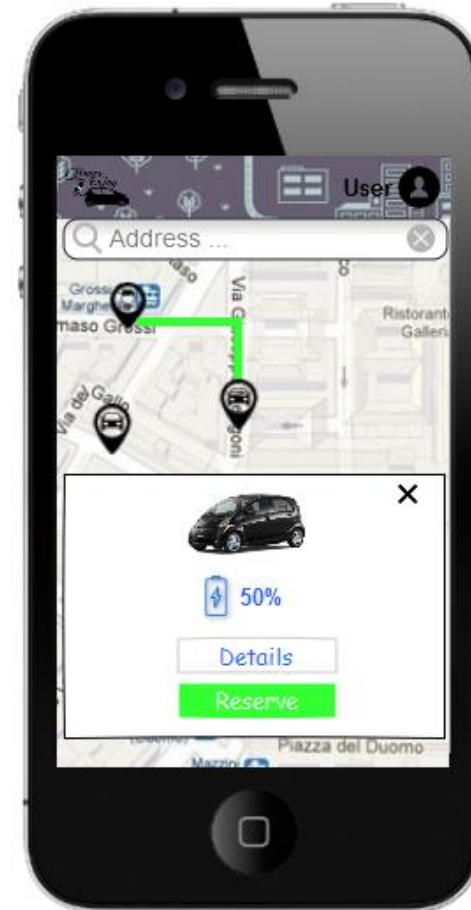


# User interfaces



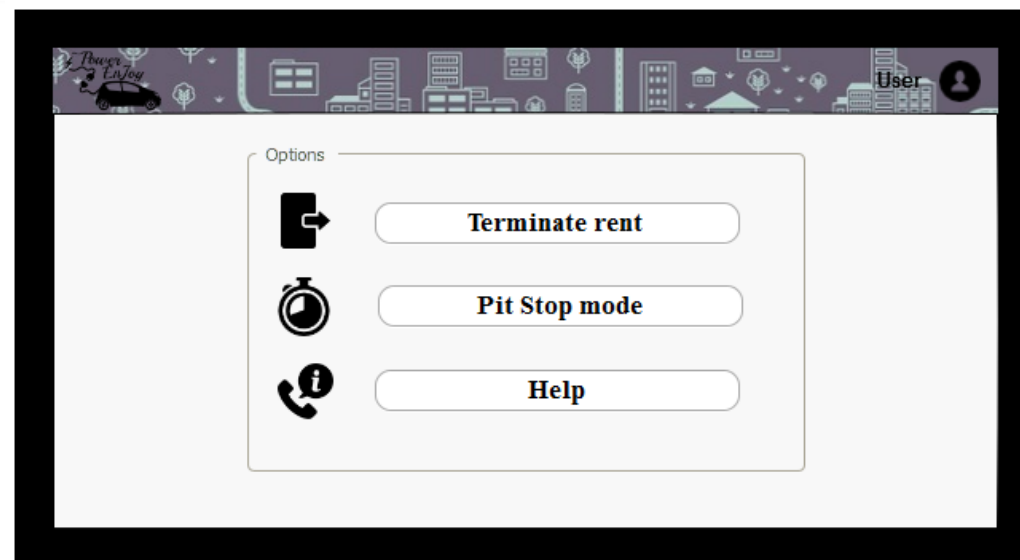
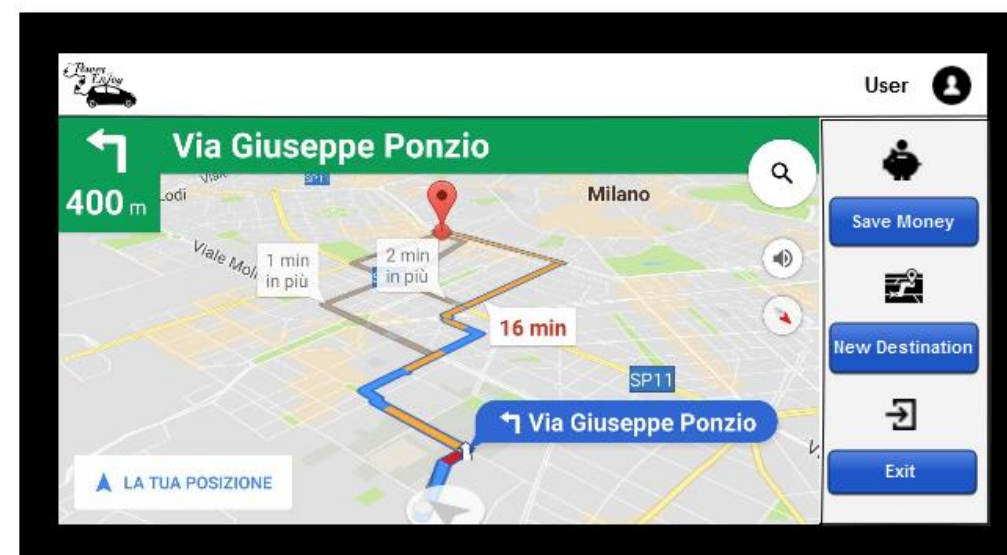
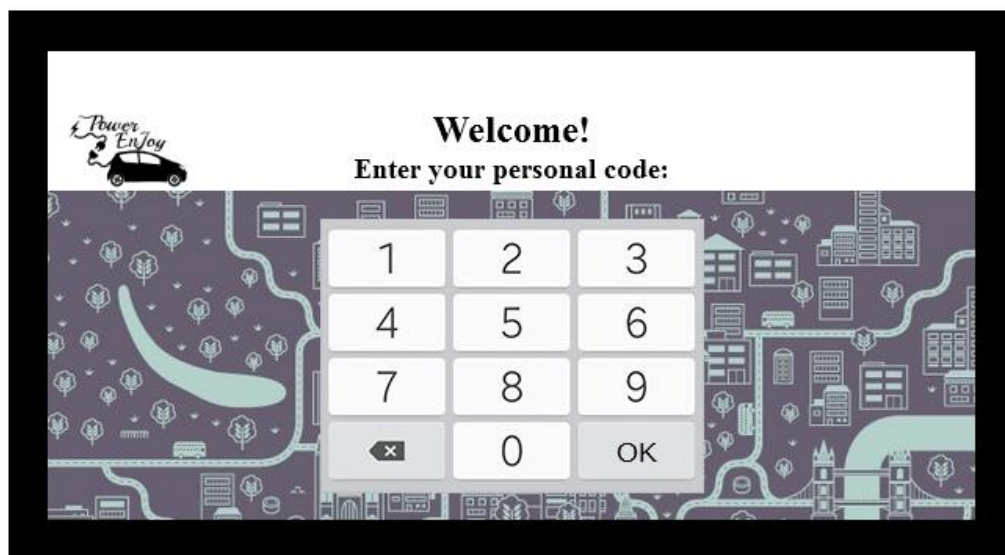
- Architectural design 3
- Algorithm design 7
- **User interfaces 11**
  - Client application
  - OnBoard application
  - UX diagram

# Client application

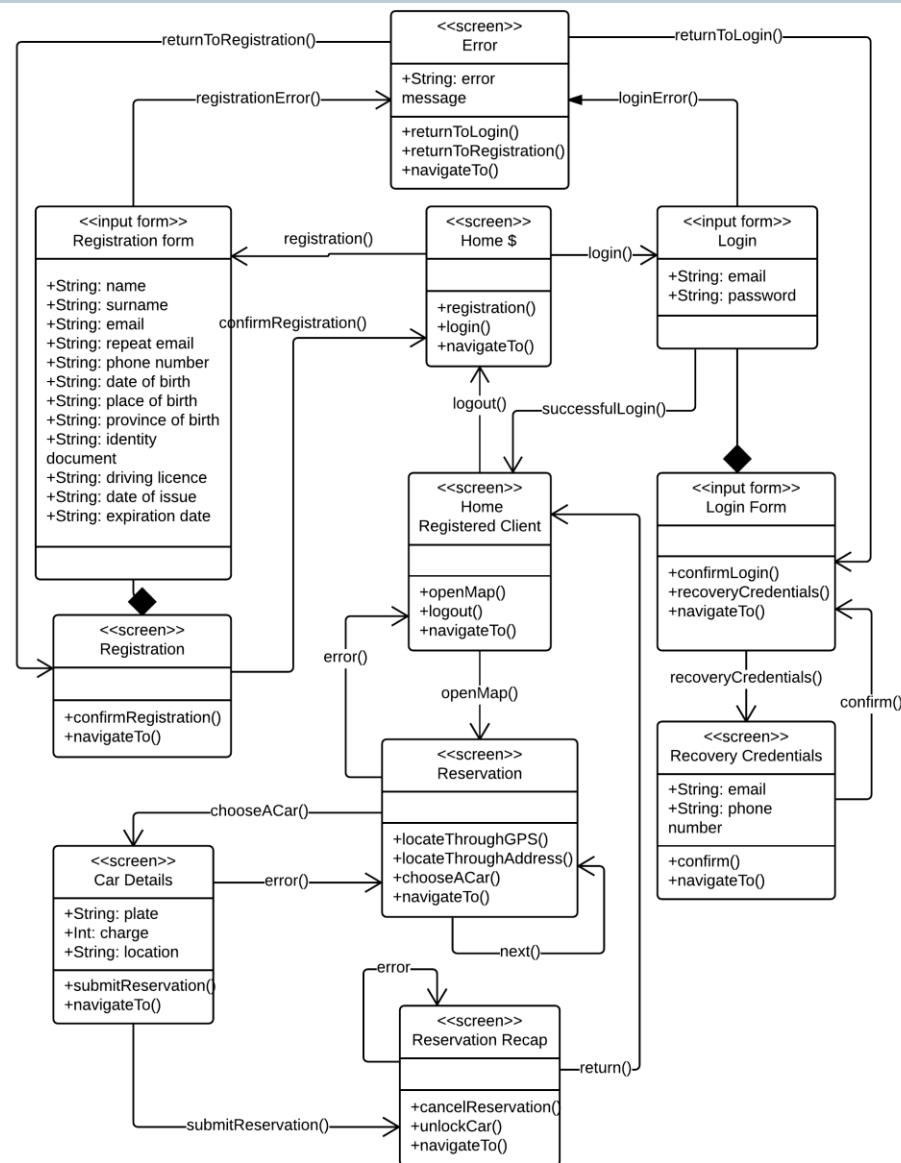




# OnBoard application



## UX diagram





# QUESTIONS?