

# Design Document

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# Chapter 1

## Introduction

### 1.1 Purpose

### 1.2 Scope

### 1.3 Glossary

In this section will be explained the unclear terms and acronyms in order to avoid ambiguities and help the reader in understanding this document.

- S2B: it is the acronym for “System To Be”.

### 1.4 Reference Documents

### 1.5 Document Structure

## Chapter 2

# Architectural Design

### 2.1 Overview

This section displays the main architectural project. Firstly it's presented a high level representation about our S2B and its components interactions. Afterwards the document shows in a deeper way different kinds of view about the system. Eventually it describes other various features about design and architecture decisions.

### 2.2 High Level Components and Their Interaction

This section aims to provide, through the diagram below, a general overview about system's architecture and main interactions between each component.

## **2.3 Component View**

## **2.4 Deployment View**

## **2.5 Runtime View**

## **2.6 Component Interfaces**

## **2.7 Selected Architectural Styles and Patterns**

## **2.8 Other Design Decisions**

## Chapter 3

# Algorithm Design

## Chapter 4

# User Interface Design

### 4.1 Mockups

In this section will be presented the mockups of the application. They will include both the views for the Mobile and Web application.

#### 4.1.1 User side application

Here are presented the mockups relative to the user side mobile and web application. Each mockup shows the possible actions that the user can choose.

- In Figures 4.1 and 4.3 there are the representation of what a guest can do when he opens the application respectively in the mobile and web application. He has two choices: login, if he has already made an account, otherwise he can click on the register button and go to the registration page.
- In Figures 4.2 and 4.4 there are the representation of the registration page regarding respectively the mobile and web application. A guest has to insert on all the form inputs and press the “register” button.



- In Figures 4.5 and 4.7 there are the actions that the user can perform in his home page both for the mobile and web application.
- In Figure 4.6 is presented the mockup for the management of the user profile.
- In Figures 4.8 and 4.10 there are the mobile and web mockups of one of the main features of the application, the taxi request. The user has to insert starting and destination addresses, the number of passengers and if he wants, he can check the sharing option.
- In Figures 4.9 and 4.11 there are the mobile and web mockups taxi reservation. The user has to insert starting and destination addresses, the number of passengers and if he wants, he can check the sharing option as in the request, but moreover he has to insert date and time of the ride.
- In Figure 4.12 there is the mobile mockup in which is presented the page where the user can check the position of the taxi and its expected arrival time.
- In Figures 4.13 and 4.14 are presented the mobile and web mockups for the reservations page, where the user can check his reservations and, in case, delete them.

### 4.1.2 Driver side application

In this section are presented the mockups relative to the application available for the drivers.

- In Figure 4.15 there is the home page of the application with all the respective actions available for the driver.

- In Figure 4.16 there is the representation of the management of the drivers availability.
- In Figure 4.17 is represented the mockup relative to the confirmation of the rides.

Figure 4.1: Guest home mobile



Figure 4.2: Guest registration mobile

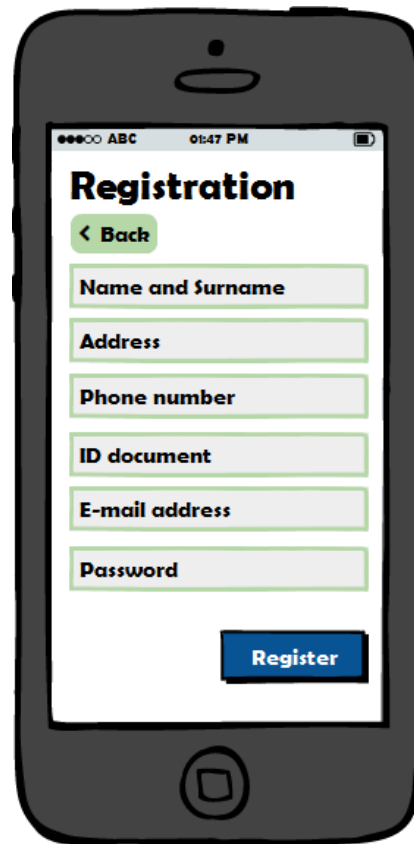


Figure 4.3: Guest home web

A screenshot of a web browser window titled "MyTaxiService". The address bar shows "http://www.mvntaxiservice.it/". The page content includes the heading "My Taxi Service" and a taxi icon with a "TAXI" sign on its roof. To the right of the icon is a login/register form with two input fields: "E-mail / Username" and "Password". Below these fields are two buttons: "Login" and "Register".

Figure 4.4: Guest registration web

A screenshot of a web browser window titled "MyTaxiService". The address bar shows "http://www.mvntaxiservice.it/registration.php?". The page content includes the heading "My Taxi Service" and a taxi icon with a "TAXI" sign on its roof. To the right of the icon is a registration form titled "Registration". The form contains six input fields: "Name and Surname", "Address", "Phone number", "ID document", "E-mail address", and "Password". Below these fields is a single button labeled "Register".

Figure 4.5: User home page mobile

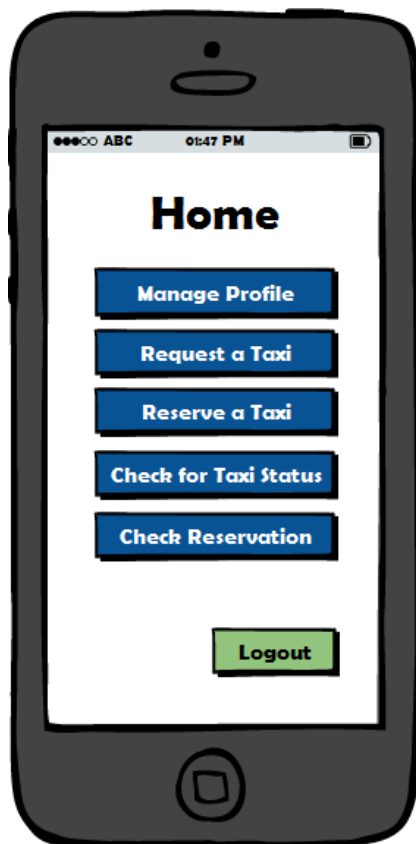


Figure 4.6: Manage profile



Figure 4.7: User home page web

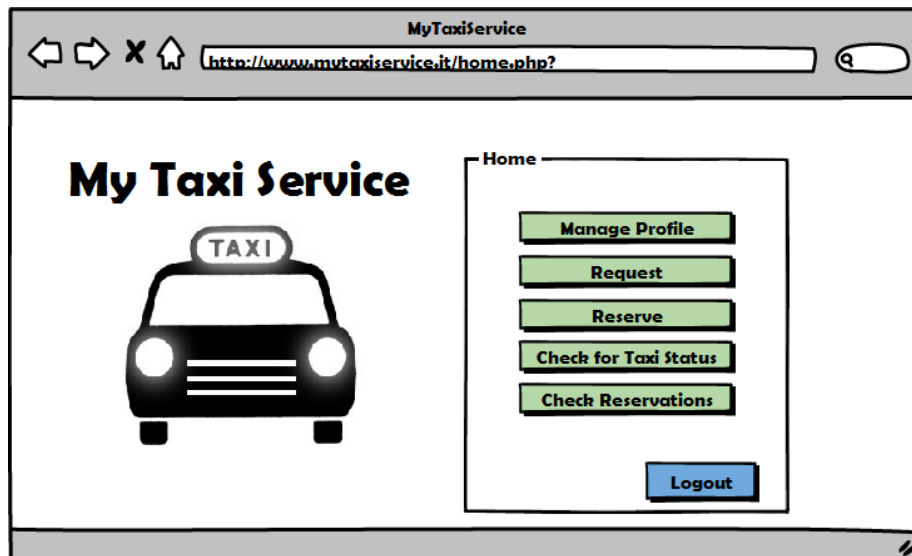


Figure 4.8: Taxi request mobile

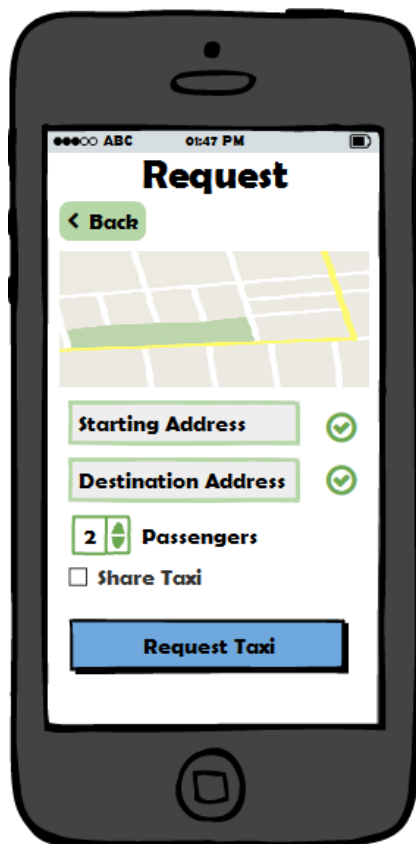


Figure 4.9: Taxi reservation mobile

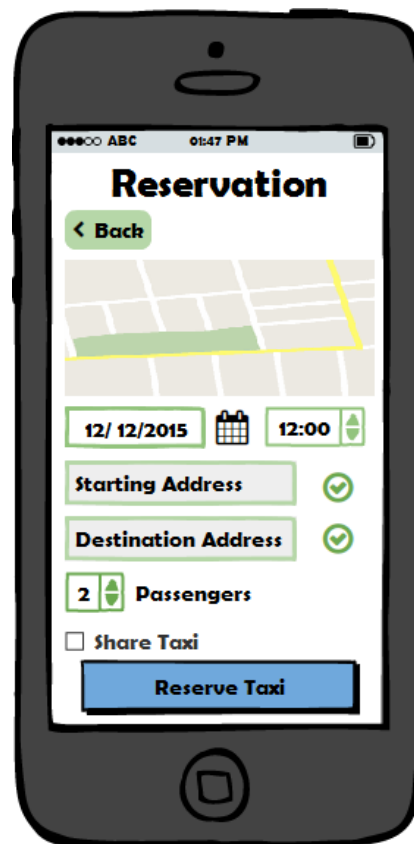


Figure 4.10: Taxi request web

MyTaxiService

<http://www.mytaxiservice.it/request.php?>

## Request

[< Home](#)

**Request**

Starting address

Destination address

3 Passenger/s

☐ Share Taxi

Request

Figure 4.11: Taxi reservation web

MyTaxiService

<http://www.mytaxiservice.it/reservation.php?>

## Reservation

[< Home](#)

**Reservation**

12/12/2027 12:00

Starting address

Destination address

3 Passenger/s

☐ Share Taxi

Reserve



Figure 4.12: Check taxi status mobile



Figure 4.13: Check reservations mobile



Figure 4.14: Check reservations web

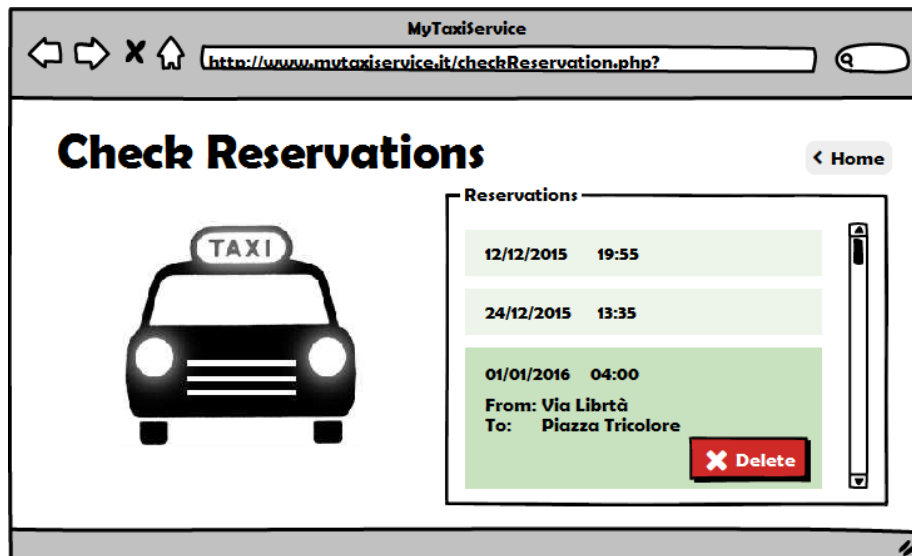


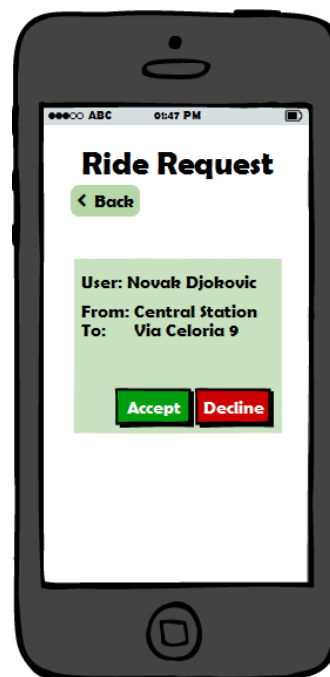
Figure 4.15: Driver home page



Figure 4.16: Availability management



Figure 4.17: Ride confirmation



## Chapter 5

# Requirement's Traceability

## Chapter 6

## References