

# Assignment 01

Sabaragamuwa University of Sri Lanka

Faculty of Computing

SE 2105 – Requirement Specification and Documentation

Group 02

Group Members:

20APSE4830 - Janaka Madusanka

20APSE4838 - H.M.T.N Padiwela

20APSE4839 - Asjad Ahamed

20APSE4866 - K.M.P.K.Bandara

20APSE4876 - J.A.G.T.Jayasuriya

20APSE4877 - N.L.A.Samarasekara

20APSE4983 - Y.S.R.T.Silva

Academic Period : 2<sup>nd</sup> Semester

Date : 29/01/2023

## Project Title - **Online Taxi Booking System**

### Introduction

Transportation plays a crucial role in our daily lives. It is essential for the functioning of society as a whole, as it enables people to travel to different places for work, leisure, or other purposes. To cater to the transportation needs of individuals and corporate clients, there are many companies that offer transportation services. However, the current system of booking transportation can be time-consuming and inefficient. The Online Taxi Booking System is an online service that aims to automate the process of booking a taxi and make it more convenient for both the client and the company.

The online taxi booking system will allow the company to register their vehicles and the drivers in the system. The client can then request for a vehicle at a specific date and time by providing all the necessary information, such as the pickup and drop-off locations. The fare will be calculated and the client will have to confirm it before the booking is confirmed. The employee will then serve the client on the specified date and time. The client will also have the opportunity to provide feedback for the service received, which the company can use for future improvements.

### Project Scope

The project scope of the Online Taxi Booking System (OTBS) is to automate the system of booking a taxi, calculating the fare, collecting the fare, and collecting all necessary information about the client. The data used by the system will be stored in a database that will serve as the central repository for all information about clients and employees. This will simplify and speed up the process, making it easier for the people involved. The OTBS will support the current process but will centralize it and make it possible for decisions to be made more quickly and easily.

## Objectives of Online Taxi Booking System

- Layout and Design

Emphasis should be placed on user interface design that is attractive to the user. It can attract the target market.

- User Manual

It is convenient to have a User Manual to inform the user about the features of the system.

- Simple sign-up procedure

OTBS has the ability to easily connect the system using Username and password. If you connect to the system for the first time, it is mandatory to enter Name, Mobile Phone Number, E-Mail, Username and Password.

- User-friendly booking procedure

The user can enter his destination through the Online Taxi Booking System and make relevant booking. The system detects the location of the user through GPS.

- Arrival time estimation

After providing the destination to the user, the system informs the driver and the user of the expected arrival time.

- Transparent booking system

Transparency in pricing is the deciding feature that makes any online taxi booking service a hit among users. The OTBS System displays information about fares directly to the users.

- Ride specifics

Once the journey is confirmed, the system should allow the user to see the current location of the taxi, as well as the projected arrival time and other details.

- Real-time tracking

The time tracking feature allows the user to check the current state of the booked taxi and the current status of the travel.

- In-system messaging

This functionality will benefit both the user and the driver. They can communicate within the application using this platform.

- Different payment gateways and a wallet

One can pay using a mobile wallet or various payment gateways. When the user arrives at their destination, it will automatically deduct the fare via payment API.

## Features

- Online booking and scheduling
- GPS-enabled vehicle tracking
- Fare estimation and calculation
- Payment processing (e.g. credit card, PayPal)
- Rating and review system
- Multi-language support
- Real-time notifications
- Fare splitting and sharing
- Vehicle type selection
- Ride history and receipts
- 24/7 customer support
- Driver and passenger ratings
- Feedback and complaint management
- Integration with other apps like Google Maps, Apple Maps