Twiss, a car sharing application

Vision

Version <1.0>

Revision History

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Vision

# Introduction

## Purpose

The purpose of this document is to collect, analyze, and define high-level needs and features of the Twiss, the car sharing application. It focuses on the capabilities needed by the stakeholders and the target users, and **why** these needs exist. The details of how Twiss fulfills these needs are detailed in the use-case and supplementary specifications.

## Scope

The scope of this document is to provide an overview of the application, and letting

the users. The project associated with this project is a simple Desktop application destined to manage the flow of traffic and provide a better way to share rides especially near big cities, where the traffic at rush hours could be a complete nightmare and there are many people living in the same neighborhood, having the same daily route without knowing it.

## Definitions, Acronyms, and Abbreviations

* TWISS - proper noun
* Carpool - is the sharing of [car](https://en.wikipedia.org/wiki/Automobile) journeys so that more than one person travels in a car, and prevents the need for others to have to drive to a location themselves.
* HOV lane - high-occupancy vehicle lane
* Toll lane - a charge payable to use a bridge or road

For further terms, consul the glossary document.

## References

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## Overview

The rest of the document contains information about the users involved in the application, as well as information about the developers and stakeholders. Also the user’s environment will be shortly described.

# Positioning

## Problem Statement

|  |  |
| --- | --- |
| The problem of | traffic jams and rush hours |
| affects | whoever is using a personal car as transportation |
| the impact of which is | wasting precious time stuck in traffic or spending too much money on gas |
| a successful solution would be | a simple desktop application, with a friendly user interface which would be accessible for any range of ages, which will allow the users to schedule trips and find other people willing to do the same trip and the share the transportation cost, or find a ride which satisfies their needs |

## Product Position Statement

|  |  |
| --- | --- |
| For | car users, as a method of transportation within local areas |
| Who | [statement of the need or opportunity] |
| TWISS | Is a desktop and web/mobile software application |
| That | Will save you precious time, that you used to spend in traffic jams and gas money |
| Unlike | Uber, Lyft or Clever Taxi |
| Our product | Is designed for user’s best experience and advantage, and not as an application used by full-time drivers which act in a taxi regime. The application will calculate the amount that needs to be paid by each user in an equitable manner. |

# Stakeholder and User Descriptions

## Stakeholder Summary

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Responsibilities** |
| Software architect | Primary lead in the development of the application | Responsible for the overall architecture of the system, chooses the proper design pattern suitable in each case and phase of the development, and also will implement most the system |
| UI Designer | Leads the visual part of the system | Responsible for providing a simple and suggestive logo for the application, choosing the representative color mix |
| Requirements provider | Provides the functional requirements | Responsible for researching the market, and providing the necessary functionalities for the application |

## User Summary

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Responsibilities** | **Stakeholder** |
| Ride provider (driver) | Main user | Sends personal reports, gives access to current coordinates, has to provide an eligible driver’s license with an experience of over 2 years. | Self |
| Passenger | Main user | Provides current coordinates, an accepted method of payment, communicates with other users | Self |

## User Environment

Twiss, will be used by any user regardless of age or competencies. The only user that has to provide something is the driver which has to satisfy all the conditions required for an international driver’s license.

The purpose of this application in a starting phase is to solve the traffic jam problems in the user’s local area, and not be used in large scale or business oriented. In each cycle of the application there has to be at least 1 driver. Though, there might be up to 7 other participants in a cycle, depending on the car capacity.

One of the main goal of the application is to be user friendly in order to be accessible for any type of user. Scheduling a trip or finding one should be performed in less than 2 minutes. The user won’t have to spend too much time on the application itself, and will be able to interact with the other users involved in the ride. In other words, the user just has to find the ride, and stick to it. When the ride will be over the user can, but only optional, review the trip or give a short feedback for the system.

As a future development, integrating Google Maps API would be a major upgrade for providing accurate locations and updated maps and also live information about the traffic or the best routes.

# Product Requirements

Living in the era of the internet, Twiss will be available for any user which has access to a computer and internet or a smartphone with GPS incorporated.