| Software Requirements Specifications  **Car Parking Multi stunt Game**  Internal Advisor:  External Advisor:  Project Manager:  Project Team:  Team Lead: M Usama Shakoor (BSCSF18M031)  Team Member: Mubeen Saleem (BSCSF18M024)  Submission Date:  24-11-2021 |
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**Table of Contents**

[1.](#_heading=h.30j0zll) Introduction 4

[*1.1*](#_heading=h.3znysh7) *Purpose of Document 4*

[*1.2*](#_heading=h.2et92p0) *Project Overview 4*

[*1.3*](#_heading=h.tyjcwt) *Scope 4*

[2.](#_heading=h.3dy6vkm) Overall System Description 4

[*2.1*](#_heading=h.1t3h5sf) *User characteristics 4*

[*2.2*](#_heading=h.4d34og8) *Operating environment 4*

[*2.3*](#_heading=h.17dp8vu) *System constraints 4*

[3.](#_heading=h.26in1rg) External Interface Requirements 5

[*3.1*](#_heading=h.lnxbz9) *Hardware Interfaces 5*

[*3.2*](#_heading=h.35nkun2) *Software Interfaces 5*

[4.](#_heading=h.1ksv4uv) Functional Requirements 5

[5.](#_heading=h.44sinio) Non-functional Requirements 5

[*5.1*](#_heading=h.2jxsxqh) *Performance Requirements 5*

[*5.2*](#_heading=h.z337ya) *Safety Requirements 5*

[*5.3*](#_heading=h.3j2qqm3) *Security Requirements 5*

[*5.4*](#_heading=h.1y810tw) *User Documentation 6*

[6.](#_heading=h.2xcytpi) References 6

**1. Introduction**

**1.1 Purpose of Document**

**The SRS** document is to provide a detailed overview of our software product, its parameters and goals. This document describes the project's target audience and its user interface, hardware and software requirements.

Player will load the game and enter in the main menu scene, where he/she can play and quit the game. When he clicks on play the profile creation is started and gives the other information and joins the room to play the game. Player chooses his/her character name according to his/her wish. Players compete with each other. Losers will be punished and the winner will be rewarded with coins.

**1.2 Project Overview**

This is a multiplayer android game. Targeting the people who are interested in playing multiplayer games. Android users and attracting them on a single platform which provides opportunity for multiplayer base games. The game includes the real driving of the vehicles’ have different vehicles like Cars, Trucks and gender option is also available. It will be like a simulator of vehicles.

**1.3 Scope**

This android game is for people who are older than 7 years. Targeting the people who are interested in playing multiplayer games. Android users and attracting them on a single platform which provides opportunity for the multiplayer game. Hence the player also physically participates in the game which is the best for the player winning.

This game will offer a simulator of the Vehicles. In the past there were only single player games. Only a single player can play the game at a time. Nowadays with the new technology of the internet all people can play the game at the same time over the internet with other people. This will be different from the other games because it will include both features offline and online. All the other games will be Offline R online. This multiplayer game will have both features. People can play this game very smoothly.

In the past there were two different types of games available in the play store one is car parking and other is car stunt game. But we merge these two features in a single game.

The Names of these two different types of games are as follows that are available in play store.

Car parking 3D : car driving simulator1

Ramp car stunt : crazy car racing games2

**2. Overall System Description**

Over all system based on android game that is designed to Facilitating users with such options like, they can create her profile with image capture option, AR base fighting with her opponent and lose her opponent and win the game, the game is multiplayer base game, these all option can be enjoyed with the help of game results.

**2.1 User characteristics**

Players will sign in/make profiles and play the game according to their own wish and beat the other player.

**2.2 Operating environment**

System will operate on the android platform*.*

**2.3 System constraints**

Identify any constraints or limitations on the system. Constraints may include the following:

Android operating system

Smart android device (version marshmallow)

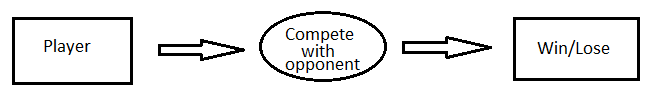
English language is enough to understand app

CPU memory (2GB Ram)

Interaction capabilities (touch screen, acceleration sensors)

Screen size (will adjust according to device)

**3. External Interface Requirements**

**

**Figure No***.* **1**

This will require a player to compete with its opponent to win the race. Only 2 possibilities have Win/Lose. The winner will give a reward and the loser will be punished by consuming their RP points.

**3.1 Hardware Interfaces**

Android devices are required to operate the whole system. No other devices are used to run this game.it is only an android game. There will be more than 1GB ram in the mobile. The storage required is more than 50Mb only. No external hardware is used in this game. It will only be performed by the android devices.

**3.2 Software Interfaces**

The software interface is very simple in this game. Because everyone can understand. Android operating system (version marshmallow) is required to run the third game. Other versions will not be able to run this game. The google play game will save the data/profile of the player later on it will use his, her own data. The permissions which require is that to access the (storage, location, id, etc.). There are no background services run in this game. The data of every person is saved, it will not be shared to the other people, only their (results, level, profile) picture shown to the other people.

**4. Functional Requirements**

These are the functional requirements of our software which is defined under the following.

**User/Player profile ()**

In this functional requirement we can use the player profile in which He, she creates his profile to enter in the game.

**Joining room with another player ()**

In this the user can enter the room using the notifications that come on the screen that the other players will send a match reservation to play a game with you. Another way to join a room is toplay in the main display panels to select rooms or create rooms or join rooms.

**Single/multiplayer room ()**

In the user can play single match play r multiplayer play using the options in the display panel

**Select character like (Male, Female) ()**

The user can select the character to play the game and it will also make a detailed view of the player.

**Player Inventory System ()**

In this section it will give the overview of the player inventory to store the clothes, cars etc.

**Select vehicle like (Cars, Trucks, Buses etc.) ()**

In this section the player has the ability to select the vehicles which are open or bought from the cars inventory system as they desire.

**Defeat others with strategy ()**

In this system the player can defeat the other player to select the different strategy to win the game in the multi r single player game.

**Compete opponent ()**

In this section the player can compete with another player to win the race**.**

**Win/Lose ()**

There are two possibilities win or lose

**Rewards ()**

In this we will manage the rewards about the player which wins the game. It will give R.P points to the player on the different strategies.

RP points will be given to the player when they complete one stage and move to the next.

In multiplayer mode, the winning player will get RP points.

**5. Non-functional Requirements**

**5.1 Performance Requirements**

Project performance is proper working of application with efficiency and accuracy. Quick responses of the game and quick movements on End state with going on halt position.

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**5.2 Safety Requirements**

There are no harmful things in the system.

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**5.3 Security Requirements**

Not high security required for the system

**5.4 User Documentation**

User manual is provided along with the application in the form of instruction to the player.

**6.References**

*This section should provide a complete list of all documents referenced at a specific point in time. Each document should be identified by title, report number (if applicable), date, and publishing organization. Specify the sources from which the references can be obtained. (This section is like the bibliography in a published book).*

| **Ref. No.** | **Document Title** | **Date of Release/ Publication** | **Document Source** |
| --- | --- | --- | --- |
|  | Unity software |  | Unity Game Development Scripting by **Kyle** |
|  | stack overflow |  | [www.stackoverflow.com](http://www.stackoverflow.com) |
|  | unity book |  | Unity 5.x Cookbook by **Mitt Smith**. |
| 1 | Car Parking 3D:  car driving simulator |  | <https://play.google.com/store/apps/details?id=com.k4games.free.car.parking.games.driving.school> |
| 2 | Ramp car stunt :  crazy car racing games |  | <https://play.google.com/store/apps/details?id=com.arillabs.hot.car> |