

# User Requirements

**Elite Cars**

# 

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# Revision History

|  |  |
| --- | --- |
| **Revision** | **Changes** |
| **V0.1** | First draft |
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|  | . |
|  |  |

# Introduction

This requirements document consists of functional and non-functional requirements for the online booking system for Elite cars. These requirements describe what services the system should provide and the constraints on the services of the system. The scope, functional, non-functional and the prioritisation of these requirements are given below.

## **Scope**

The system being designed is for an online booking system. The system will encompass online bookings and finance. Customers will be able to search for luxury cars that Elite cars has to offer and make bookings according to their preference.

**2.2** Template

The following template will be used for each requirement.

|  |  |
| --- | --- |
| **Priority No.** | **Requirement No.** |
| **Title** | Title of the requirement. |
| **Description** | Description of the requirement. |
| **Rationale** | Reason for the requirement. |
| **Dependencies** | What other requirement does this requirement depend on? |

# Definitions and Abbreviations

GUI Graphical user Interface

ID Identification Number

# User Classes and Characteristics

The system has three levels of users: The following classes of user are defined below:

*API User:* The one who access the API and contents of database

*Management staff:* The administrator of Elite Cars.

*Customers:* The people who will be availing of the services offered by Elite Cars.

# Assumptions and Dependencies

Assumption 1: The customer is familiar with how to use online service websites*.*

# Specific Requirements

## Functional Requirements

### API Functions

|  |  |
| --- | --- |
| **Priority No. 1** | **Requirement No. 0001** |
| **Title** | View All Car |
| **Description** | The API user will be able to directly view all cars on the database |
| **Rationale** | The server and database are running |
| **Dependencies** | - |

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| --- | --- |
| **Priority No. 2** | **Requirement No. 0002** |
| **Title** | View One Car by Id Number |
| **Description** | The API user will be able to directly view one car on the database by the id number |
| **Rationale** | The server and database are running and the car exists |
| **Dependencies** | - |

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| --- | --- |
| **Priority No. 3** | **Requirement No. 0003** |
| **Title** | Add a car to the database |
| **Description** | The API user will be able add one car to the database |
| **Rationale** | The server and database are running |
| **Dependencies** | - |

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| --- | --- |
| **Priority No. 4** | **Requirement No. 0004** |
| **Title** | Update details of car |
| **Description** | The API user will be able to update any amended details of the car to the database |
| **Rationale** | The server and database are running and the car exists |
| **Dependencies** | - |

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| --- | --- |
| **Priority No. 5** | **Requirement No. 0005** |
| **Title** | Delete a car from the database |
| **Description** | The API user will be able to remove a car from the database |
| **Rationale** | The server and database are running and the car exists |
| **Dependencies** | - |

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| --- | --- |
| **Priority No. 6** | **Requirement No. 0006** |
| **Title** | Search car by make |
| **Description** | The API user will be able to search the database for a car by its make |
| **Rationale** | The server and database are running and the car exists |
| **Dependencies** | - |

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| --- | --- |
| **Priority No. 7** | **Requirement No. 0007** |
| **Title** | Search car by make and price per day |
| **Description** | The API user will be able to search the database for a car by its make and the price per day |
| **Rationale** | The server and database are running and the car exists |
| **Dependencies** | - |

### 6.1.1 Management Functions

The management staff (here referred to as administrator) have the ability to undertake the following functions. Management staff will also be able to carry out the functions of all other users.

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| --- | --- |
| **Priority No. 1** | **Requirement No. 1001** |
| **Title** | Admin Login |
| **Description** | On initial startup of the application it will be possible to login in as “admin” with a user ID and password |
| **Rationale** | An initial admin user is necessary. It will not be possible to delete this account |
| **Dependencies** | - |

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| --- | --- |
| **Priority No. 8** | **Requirement No. 1002** |
| **Title** | Admin view Customer bookings |
| **Description** | The administrator will have the ability to view all the bookings made by customers |
| **Rationale** |  |
| **Dependencies** | 1001,2005 |

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| --- | --- |
| **Priority No. 10** | **Requirement No. 1003** |
| **Title** | Admin view Customer details |
| **Description** | The administrator will have the ability to view the details of the customer |
| **Rationale** |  |
| **Dependencies** | 1001,2001 |

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| --- | --- |
| **Priority No. 12** | **Requirement No. 1004** |
| **Title** | Edit Cars |
| **Description** | The administrator will have the ability to add or remove cars from the fleet |
| **Rationale** |  |
| **Dependencies** | 1001 |

### Customer Functions

The customer (referred to as users) have the ability to undertake the following functions.

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| --- | --- |
| **Priority No. 4** | **Requirement No. 2001** |
| **Title** | Create an a/c |
| **Description** | The user will be able to create an a/c for booking cars including assigning a user name (unique Id) and password for login purposes. |
| **Rationale** | An account is needed to make bookings, check service status and to receive updates on bookings. |
| **Dependencies** | - |

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| --- | --- |
| **Priority No.2** | **Requirement No. 2002** |
| **Title** | View Cars |
| **Description** | The customer will be able to view all the cars |
| **Rationale** | The customer can view the cars without creating any account. |
| **Dependencies** | - |

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| --- | --- |
| **Priority No. 11** | **Requirement No. 2003** |
| **Title** | Edit & update a/c details |
| **Description** | The user will have the ability to update details of their personal a/c. Such as add/modify contact details, services and reset password in event of lost/forgotten password. |
| **Rationale** | The user can modify their account details as required to meet their changing needs. |
| **Dependencies** | 2001, 2004 |

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| --- | --- |
| **Priority No. 5** | **Requirement No. 2004** |
| **Title** | Customer Login |
| **Description** | The customer shall be able to login into the account using Unique ID and password and book the services. |
| **Rationale** | User ID and password will be required to login into the account to avail services offered by Elite cars |
| **Dependencies** | 2001 |

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| --- | --- |
| **Priority No. 6** | **Requirement No. 2005** |
| **Title** | Create a booking |
| **Description** | The user shall be able to book the car from the list of available cars. |
| **Rationale** | The user can login and book a car |
| **Dependencies** | 2001,2004 |

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| --- | --- |
| **Priority No. 7** | **Requirement No. 2006** |
| **Title** | Retrieve a Booking |
| **Description** | The user shall be able to retrieve their booking details like date and time of booking. |
| **Rationale** | The user is able to view their booking information and check that all details are correct. |
| **Dependencies** | 2001,2004,2005 |

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| --- | --- |
| **Priority No. 9** | **Requirement No. 2007** |
| **Title** | Delete Booking |
| **Description** | The user shall be able to delete their booking using their unique ID and password if needed, up to 48 hours before reservation. |
| **Rationale** | The user is able to cancel their booking using their account. |
| **Dependencies** | 2005 |

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| --- | --- |
| **Priority No. 13** | **Requirement No. 2008** |
| **Title** | Payment online |
| **Description** | The user shall be able to pay for their services by logging in with their unique ID and password. The user will be able to register a debit/credit card with their a/c or alternatively link up their PayPal account. |
| **Rationale** | This cuts the time of future payments by at least 20% as details can be stored for future purchases. |
| **Dependencies** | 2005 |

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| **Priority No. 3** | **Requirement No. 2009** |
| **Title** | Search availability |
| **Description** | The user shall be able to search the cars availability. |
| **Rationale** |  |
| **Dependencies** | - |

# Non-Functional Requirements

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| --- | --- |
| **Priority No. 14** | **Requirement No. 3001** |
| **Title** | Browser Support |
| **Description** | The website will run on all major browsers and mobile phones. |
| **Rationale** | The website will be accessible by to a wide network of potential customers |
| **Dependencies** | - |

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| --- | --- |
| **Priority No. 15** | **Requirement No. 3002** |
| **Title** | Security Online Payment |
| **Description** | Ability to complete payment using secure payment type. |
| **Rationale** | Ensure customer’s a/c details are safe, and protected from unauthorised third parties. |
| **Dependencies** | - |

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| --- | --- |
| **Priority No. 16** | **Requirement No. 3003** |
| **Title** | Payment Process |
| **Description** | Secure online payments are processed within 5 minutes or the payment process will time out. |
| **Rationale** | Users can process payments within a defined timeframe. |
| **Dependencies** | - |

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| --- | --- |
| **Priority No. 17** | **Requirement No. 3004** |
| **Title** | Online traffic |
| **Description** | Ability to support use of website by up to 10 users |
| **Rationale** | Making system scalable for 10 users |
| **Dependencies** | - |

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| **Priority No. 18** | **Requirement No. 3005** |
| **Title** | Scalability for future services |
| **Description** | The website should be able to evolve for changing services |
| **Rationale** | Ability to change offered services in the future |
| **Dependencies** | - |

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| **Priority No. 19** | **Requirement No. 3006** |
| **Title** | Delivery date |
| **Description** | Complete website before 30th March, 2017 |
| **Rationale** | Want to make the most of increased bookings |
| **Dependencies** | - |

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| --- | --- |
| **Priority No. 20** | **Requirement No. 3009** |
| **Title** | Availability |
| **Description** | The website will be available and bookings can be made 24/7. |
| **Rationale** | Website is constantly available to users |
| **Dependencies** | - |

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| **Priority No. 21** | **Requirement No. 3010** |
| **Title** | Recoverability |
| **Description** | If the site crashes or is under construction, it will not be down for longer than 1 hour |
| **Rationale** | The website can be recovered in case of a crash. |
| **Dependencies** | - |