**Vision Document for “Online Car Rental Management System”**

**Team members:**

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| --- | --- | --- |
| 611057 | Jean de Dieu | Twagirumukiza |
| 611117 | Paul | Kigozi |
| 610587 | Andualem | Zemedkun |
| 610568 | Chingunjav | Battsogt |

**Problem statement**

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| --- | --- |
| The problem of | *managing the car rental information* |
| Affects | *administrators, customers, owners* |
| the impact of which is | *Car reservation and business management are complex, ineffective to manually track the rental records,* |
| a successful solution would be | *Online system that enables customers to view available cars, make reservation and cancel reservation.*  *A system to manage car reservations, checkout and check-in of cars and manage business income.* |

**2.2 Product Position Statement**

|  |  |
| --- | --- |
| For | *Car rental business owners and customers* |
| Who | *[statement of the need or opportunity]* |
| The (product name) | *Quick Online Car Rental* |
| That | *Computerized car rental management system* |
| Unlike | *Manual car rental management system* |
| Our product | *Makes it convenient for customers to make reservations and car owners to manage their business.* |

**3. Stakeholder Descriptions**

**3.1 Stakeholder Summary**

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Responsibilities** |
| Admin | Admin adds new car, removes car, updates information and manages clerk | Admins are responsible for setting up, insert initial data and manage system |
| Customers | Customers can make car reservations and cancel reservation. | Customer is responsible for reserving a car. |
| Business Owner |  |  |
| Developers | Developers develop system on the basis of given document | Developers are responsible for developing system features, fixing bug and maintaining the system’s availability. |
| Testers | Testers use JUnit testing tool to test system or integration test | Testing are responsible for integration testing |
| Clerk | Clerk checkout and check-in car, generates reports, views schedules and customers. | Clerk are responsible for car checkout, checkout and generating reports |

**3.2 User Environment**

*Customer and clerk are involved in making reservation, the Admin is responsible for adding, updating and removing cars from the system. Clerk is responsible for checking-in and checking out cars and generating report.*

*The system can be accessed and used from any device on any web browser*

*The current system is manual, so our system will not interact with the old system*

**4. Product Overview**

**4.1 Product Perspective**

*System is completely independent*

**4.2 Assumptions and Dependencies**

The system will work on any web browser and internet connection.

**4.3 Needs and Features**

*[Avoid design. Keep feature descriptions at a general level. Focus on capabilities needed and why (not*

*how) they should be implemented.]*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Problem** | **Need** | **Priority** | **Features** | **Planned Release** |
| Admin | | | | | |
|  | Manual way of keeping track of rental car details is complex and error prone. | A computerized way of managing rental car details. |  | Car details management |  |
| Clerk | | | | | |
|  | The company rents a car on daily basis | The rent must be specified on daily basis |  | The Clerk must provide the car check in and Checkout |  |
| *2.* | Each car rent has a specific date and price | The rent has to be done assuming on a daily basis and price per day |  | The Clerk maintains the daily base price per car |  |
| Customer | | | | | |
|  | Customer has to physically come at the office to make reservation | Customer can make car reservation online without physically coming to office. |  | Custome views available cars and make reservation online. |  |
|  |  |  |  |  |  |

**4.4 Alternatives and Competition**

* Buying a software that is currently used by one of the competitors of car rental business.
* Microsoft excel sheets

**5. Other Product Requirements**

**Usability**

The system provides a help and support menu in all interfaces for the user to interact with the system. The user can use the system by reading help and support.

**Security**

The system provides username and password to prevent the system from unauthorized access. The staffs’ password must be greater than eight characters. The subsystem should provide a high level of security and integrity of the data held by the system, only authorized personnel of the company can gain access to the company’s secured page on the system; and only users with valid password and username can login to view user’s page.

**Performance**

The system response time for every instruction conducted by the user must not exceed more than a minimum of 10 seconds. The system should have high performance rate when executing user’s input and should be able to provide response within a short time span usually 50 second for highly complicated task and 20 to 25 seconds for less complicated task.

**Availability**

The system should always be available for access at 24 hours, 7 days a week. Also, in the occurrence of any major system malfunctioning, the system should be available in 1 to 2 working days, so that business process is not severely affected.

**Error handling**

Error should be considerably minimized and an appropriate error message that guides the user to recover from an error should be provided. Validation of user’s input is highly essential. Also, the standard time taken to recover from an error should be 15 to 20 seconds.

**Ease of use**

Considered the level of knowledge possessed by the users of this system, a simple but quality user interface should be developed to make it easy to understand and required less training.