

SOFTWARE REQUIREMENT SPECIFICATION



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1. INTRODUCTION

“Hot Wheelz©” is basically a website, which enables one to rent, buy, sell, and compare vehicles.

1.1 Purpose:

Hot Wheelz is a unique website which provides a platform for people to buy, sell, and rent vehicles. Anyone with right documents can buy, sell or rent vehicles on this website. The purpose of this website is to provide the following functionalities:

From Customer’s point of view,

- One can buy first hand vehicles from dealer.
- One can buy second hand cars from another individual after proper inspection of the vehicle.
- People can rent vehicles for a short period of time from others or a dealer after proper verification.
- Owner can buy car customization parts, and car maintenance products from dealers.
- Owner can book an appointment for servicing of the vehicle.
- One can also provide their vehicle for rent to people.

From Dealer’s point of view,

- They can provide vehicles for rent as well as for sale.
- They can provide vehicle modification parts and maintenance products to customers.
- It becomes much easier to target customer and maintain consumer relationship on this platform.
- This platform diminishes need for brand advertisement.

There are not many websites or apps providing feature of renting vehicles for period of time. This platform not only allows one to rent but also buy and sell vehicles. The concept of renting cars can be used by travellers and tourists who want to explore a place, instead of booking a taxi one can rent a car and conveniently travel according to their need without any restrictions, save their money form booking taxies and enjoy without any third person to stop them.

1.2 Scope:

We have described what features are in scope of the software and what are not in the scope of the software to be developed.

In Scope:

1. Browsing vehicles on the website.
2. One can buy or rent a vehicle directly from a dealer or from another owner, the gateway being our website.
3. Posting FAQs or queries on our website, which can be then answered by another individual, dealer or the website admin.
4. Providing a platform for an individual trying to sell his/her vehicle.
5. Dealers can display their vehicle and car modification accessories which could be then used to modify their vehicle taking it to the dealer.

Out of Scope:

1. Seller can't give critics on the profile of another seller.
2. Making the whole transaction online, from browsing to payment for the vehicle is not in the scope of this software. The concerned person must meet the seller for payment and vehicle verification.
3. Buyer can't just buy the modification parts they have to modify their vehicle along with it.

1.3 Definitions, Acronyms, and Abbreviations:

Acronyms and Abbreviations:

- a. "Hot Wheelz©": Copyrighted website name.
- b. IEEE: Institute of Electrical and Electronics Engineering
- c. SRS: Software Requirement Specifications

Definitions:

- a. Vehicle Customization: Altering a passenger vehicle substantially or to improve its performance, often by replacing engine and transmission; made into a personal styling statement.
- b. Rent: Pay someone to use something.

1.4 References:

IEEE SRS Format

1.5 Overview:

The rest of this SRS is organized as follows: Section 2 gives an overall description of the software. It gives what level of proficiency is expected of the user, some general constraints while making the software and some assumptions and dependencies that are assumed. Section 3 gives specific requirements which the software is expected to deliver. Functional

requirements are given by various use cases. Some performance requirements and design constraints are also given.

2. OVERALL DESCRIPTION

2.1 Product Perspective:

2.2 Product Functions:

“Hot Wheelz©” supports the following use cases:

Use Case	Description of Use Case
<i>Admin:</i>	
Authorize	Allows admin to login.
Update page	Admin can update page.
Views FAQs	Allows admin to view FAQs.
Answer FAQs	Allows admin to answer FAQs.
Block	Allows Admin to Block any user.
<i>Customer:</i>	
Authorize	Allows customer to login.
Update Profile	Customer can update profile.
View profile	Customer can view the profile of Dealer.
Enter vehicle	Customer can choose type of vehicle looking for bike/car.
Buy	Allows customer to buy vehicle.
Rent	Customer can rent vehicle after verifying his/her driving license.
Compare	Allows customer to make comparison between vehicles.
Modification	It provides a virtual garage for custom modification.
Location	Allows customer to enter preferred location.
View FAQs	Allow user to see FAQs.
<i>Dealer:</i>	
Authorize	Prompts dealer to login.
Update profile	Allows dealer to update profile.
Upload documents	Dealer can upload the documents and information of the vehicle.
View Profile	Allows Dealer to view profile of customers.
Location	Allows dealer to enter city.
View FAQs	Allows dealer to view FAQs.
Account recovery	Allows customer to recover account in case of lost password.

2.3 User Characteristics:

- a. The user must have an device handy with a browser on it, from which he/she can operate.
- b. The user should be familiar with operations of website.

2.4 Principal Actors:

The three principal actors in “Hot Wheelz©” are:

- Admin
- Dealer
- Customer (or) Individual

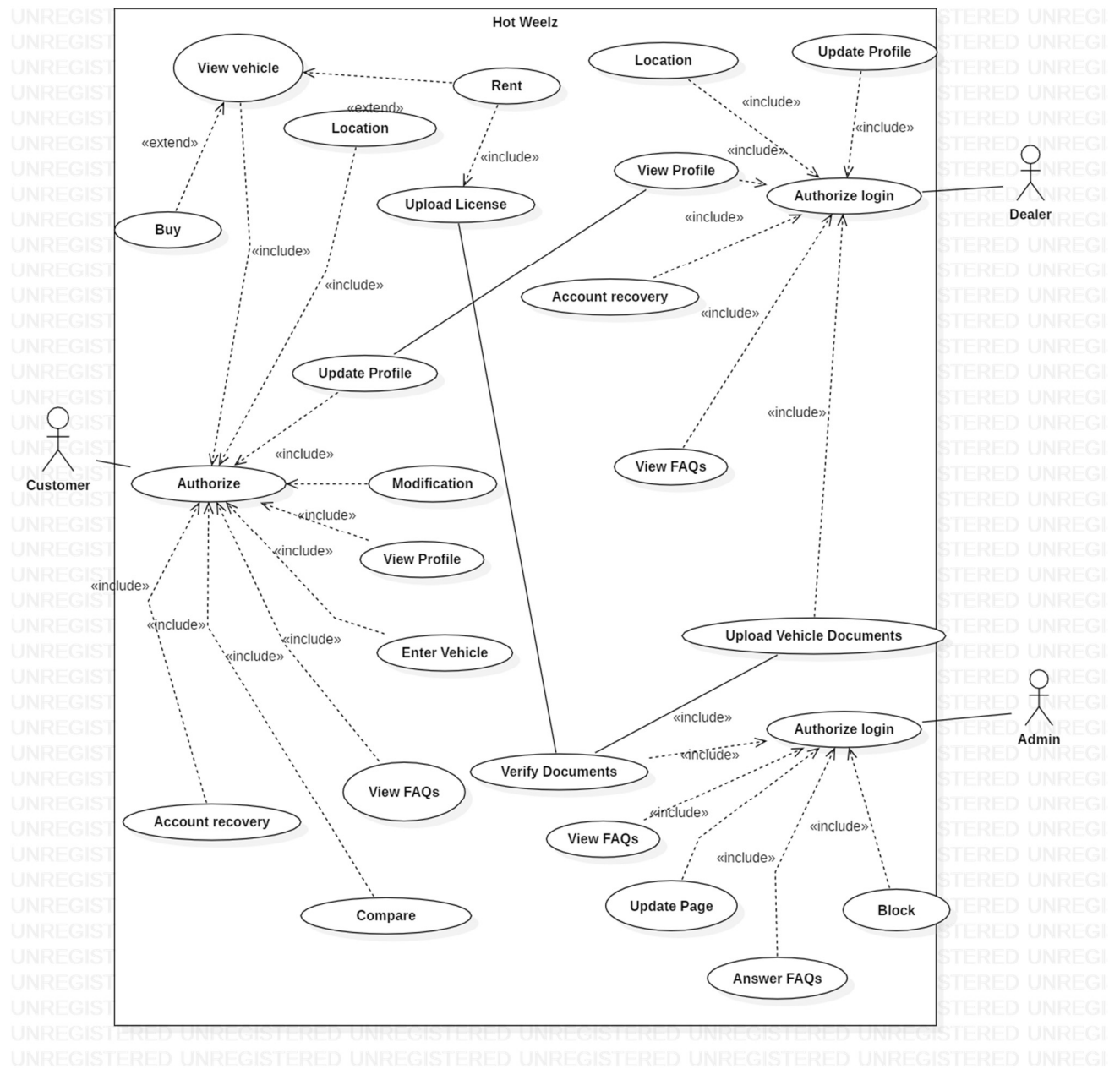
2.5 General Constraints:

- a. Working of “Hot Wheelz” is dependent on the available of Internet connection.
- b. To buy, rent or sell a vehicle the customer and the seller must have appropriate documents which would be verified
- c. The dealer must be verified to sell vehicles.

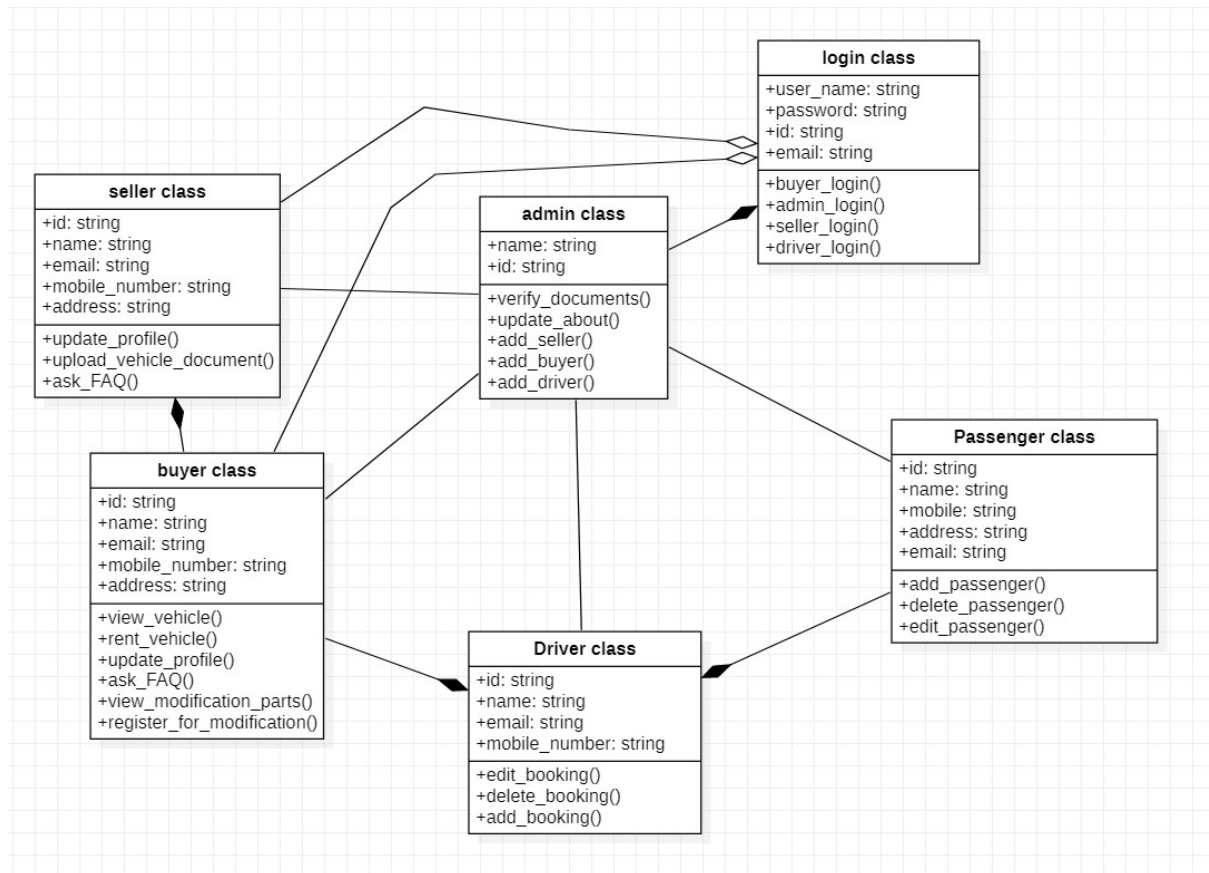
2.6 Assumptions and Dependencies:

- a. Working of “Hot Wheelz” is dependent on the available of stable Internet connection.
- b. Admins must be active to block, verify users answer FAQ’s.

APPENDIX A: USE CASE DIAGRAM



APPENDIX B : CLASS DIAGRAMS



3. Specific Requirements:

3.1 Functional Requirements:

We describe the functional requirements by giving various use cases.

Use Case 1:

Name: Authorized login

Summary: Allows Admin to login.

Actors: Admin

Pre-conditions:

- Internet connectivity.
- Only allowed for mail ids.

Main success scenario:

- Admin clicks on login button.
- App checks for the authorization of login.

Extension:

Id or password incorrect. shows error dialog box.

Post-Condition:

Admin can now access all features of website.

Use case 2:

Name: update page

Summary: Allows admin to make changes in the functioning of website.

Actors: Admin

Pre-conditions:

- Internet connectivity
- Admin must upload some data on website.

Main success scenario:

- Users can now use new features of website.

Extension: NIL

Post-conditions: NIL

Use case 3:

Name: view FAQs

Summary: admin can see the FAQs.

Actors: Admin

Pre-condition:

- Internet connectivity

Main success scenarios:

- Admin can now click see the FAQs

Extension: NIL

Post condition: Admin can click to answer the FAQs.

Use case 4:

Name: Answer FAQs

Summary: Allows admin to answer the FAQs.

Actors: Admin and users .

Main success scenarios:

- Users can now see the answers of FAQs.

Pre-condition:

- User must click to see the FAQs first.
- Internet connectivity.

Extension: NIL

Post-condition:

Admin can now answer the FAQs.

Use case 5:

Name :Block

Summary: Admin can Block any user

Actors: Admin

Pre-condition:

- Internet connectivity
- Admin must login

Main success scenarios:

- Account will be blocked.

Extension :NIL

Post-conditions: User can no longer use the website.

- User can no longer use the website.

Use Case 6:

Name: Customer Login

Summary: Allows customer to login

Actors: customers

Per-conditions:

- Internet connectivity.
- Requires customers to login.

Main success scenario:

- Customer clicks on customer login tab and then gets redirected to gmail/facebook page.
- Customer enters Customers mail id and password
- Customer submits and then redirected to the app again.

Extensions:

Id or Password incorrect. Handled by Gmail.

Post-conditions:

- Customer first time login, then Customer will required to complete their profile
- Customer can now access all feature of the app provide for customer

Use Case 7:

Name: Update Profile.

Summary: Allows customer to update profile.

Actors: Customers

Per-condition:

- Internet connectivity.
- Requires customers login id and password to login.

Main success scenario:

- Customer click on login tab for customer and login.
- Customer click on update profile and file requirments.

Extensions:

Id or password incorrect . Handled by gmail .

Post-condition:

Customer can now update an profile

Use Case 8:

Name: View profile

Summary: Customer can view the profile of Dealer.

Per-condition:

- Customer must have login account

Main success scenario:

- Buyer click on view profile

Extension :NIL

Post-condition:

Customer can now veiw dealers profile

Use case 9:

Name: Enter vehicle

Summary : Customer can choose type of vehicle looking for bike/car.

Actors: Customer.

Per-conditon:

Customer must login before entering car/bike customer is looking for buy/

Main Success scenario:

- Customer click on the Enter to add type of car/bike

Extention:

- In case of error refresh the screen

Post conditon:

Enter the type vehicle that you want to buy/rent.

Use Case 10:

Name : Buy.

Summary: Allows customer to buy vehicle.

Actors: Customers

Per-condition:

- Internet connectivity.
- Requires customers login id and password to login.

Main success scenario:

- Customer click the product that they want to buy.
- Customer click on the buy to buy the product.

Extensions:

Id or password incorrect . Handled by gmail.

Post-condition:

Customer now can buy the product.

Use Case 11:

Name : Rent.

Summary: Allows customer to Rent vehicle.

Actors: Customers

Per-condition:

- Internet connectivity.
- Requires customers login id and password to login.

Main success scenario:

- Customer click the product that they want to Rent.
- Customer click on the Rent to Rent the product.

Extensions:

Id or password incorrect.

Post-condition:

Customer now can Rent the product.

Use Case 12:

Name : compare.

Summary: Allows customer to make comparison between vehicles.

Actors: Customers

Per-condition:

- Internet connectivity.
- Requires customers login id and password to login.
- Customer should select product to compare

Main success scenario:

- Customer click the product that they want to Compare.
- Customer click on the compare to Compare the product.

Extensions:

Id or password incorrect.

Post-condition:

Customer now can Compare the product.

Use Case:

Name: Dealer Login

Summary: Allows dealer to login

Actors: Dealers

Pre-conditions:

- Internet connectivity.
- Dealer must have correct login details (username/email/mobile number , password).
- May also require mobile or email for otp verification if double authentication is enabled

Main success scenario:

- Dealers fill username/ email/mobile number.
- Dealers fill password.
- If correct login details then get to main dashboard page
- If incorrect login details then get back to login page

Extension:

Error in login show cause of failed login.

Post-condition:

Dealer can now access his account.

Use Case :

Name: Dealer recovery account

Summary: Allows dealer to recover account

Actors: Dealers

Pre-conditions:

- Internet connectivity.
- Dealer click on forget password tab.
- Dealer require mobile or email for otp verification

Main success scenario:

- Dealers fill username/ email/mobile number.

- Dealers get otp send to his/her mobile number or email id.
- Dealer enter otp.
- Dealer click on submit tab.
- If correct otp then dealer redirect to change password page.
- Dealer input new password
- Dealer click on change password tab.

Extension:

- If incorrect login details then get back to account recovery page.

Post-condition:

Dealer has changed his/her password .

Use Case 7:

Name: Dealer View / Update Profile

Summary: Dealer is able to view or update the uploaded profile.

Actors: Dealer

Pre - Conditions:

Dealer clicks on the View / Update profile tab.

Main Success Scenario:

- Dealer clicks on the View / Update profile tab.
- Dealer is able to view the uploaded profile.
- If the Dealer wants to update the profile he / she will click on the Update profile button or if there is no update to be made then student can return back to the main home screen.
- Dealer fills in the updated profile details.
- Dealer saves the updated profile and views the same for clarification.
- Dealer returns back to the home screen

Post condition:

Dealer has successfully viewed the profile or updated the same based on his choice.

Use Case 5:

Name: Upload Documents required by admin (if any):

Summary: Dealer upload missing documents upon being notified of the same by the admin.

Actors: Dealer

Pre - Conditions:

Admin clicks on the notification tab in the student overview profile to notify the Dealer to upload the missing Documents.

Main Success scenario:

- Dealer clicks on the upload button to upload the required documents.
- Dealer chooses a file in pdf format.
- Dealer uploads the files.
- The uploaded file is successfully acknowledged by the administrator.
- Dealer fails to upload the file due to loss of internet connectivity. An error message is thrown which indicates the problem.
- The administrator finds the uploaded file to be not correct. The dealer is notified of the same once again.

Post condition:

Admin acknowledges the successful upload of the required documents.

Use Case 16:

Name: Dealer View customers Profile

Summary: Dealer can view the profile of any customer he/she wishes to .

Actors: Dealer

Preconditions: Dealer must be successfully logged in .

Main success scenarios:

- Dealer clicks on View customer profile tab.
- Dealer chooses for the customer he wishes to view profile of and clicks on View Profile Tab.
- Dealer views the customer profile

Post Condition:

Dealer has now successfully viewed customer profile.

Use Case 16:

Name: Dealer view FAQ's

Summary: Dealer can view the FAQ's

Actors: Dealer

Preconditions: Dealer must be successfully logged in .

Main success scenarios:

- Dealer clicks on View FAQ's.
- Dealer clicks on reply FAQ's.
- Dealer reply to FAQ's
- Dealer clicks on submit tab.

Post Condition:

Dealer has now successfully viewed and replied FAQ's.

3.2 Non-Functional Requirements:

- Can sell a vehicle only after verification of documents .
- Restriction to buy vehicles or part only after login.
- Admin should be able to push notification to be shown on user interface, about any specific requirements/demand from any specific document of vehicle.

3.3 Hardware Requirements:

Should run on any Android, Apple, Windows or any other operating system-based device which supports a browser application on it.

Requires minimum of 1gb ram for smooth functionality

3.4 Software Requirements:

- Minimum SDK version on android: Android 4.0 (Ice Cream Sandwich)
- All Operating systems except DOS.

3.5 Design Constraints:

- **Security:** The files in which the information regarding securities and portfolios should be secured against malicious deformations.
- **Fault Tolerance:** Data should not become corrupted in case of system crash or power failure.