

Cars showroom web application

- Requirements Document –

1. Description

The application is representing a website that is allowing the customers to see different cars make and model, also some detailed specifications regarding the technical and aesthetical part of a specific car.

The app has 4 different roles and access on the website: Guest, User, Dealer and Admin.

Each role will be described each one in the Functional Requirements section.

2. Scope and reach

The scope of the application is that to help customers to find their ideal car with all the option they want at a correct price range.

The app is connecting dealers with potential customers, offering a wide variety of cars manufacturers and models.

3. Functional Requirements based on personas roles

- **Guest:**

A person is considered as guest when he/she does not have an account or it's not logged in yet.

What a Guest can do?

- Navigate to the Home
- Navigate on the Contact page
- Access the Main page where all the cars are shown
- Can make searches and apply filters on the car's posts
- Can access the site gallery

- **User:**

A person is considered a user if he/she is successful logged in the account.

What an Authenticated user can do?

Besides the guest access has some more attributes:

- can see detailed information on a specific car
- can contact the admin through the contact page
- can update his profile information
- can make a car reservation showing the interest in a specific car

- **Dealer:**

A dealer has some special attributes:

- can post new cars in the showroom site
- can contact interested users
- can update its profile information
- can delete posts with specific cars that are outdated
- can update the announcements

- **Admin:**

The admin is the administrator of the website and it is assuring a fair and safe use of the web app by the personas.

What an admin can do?

- can delete posts from the showroom website
- can view all the users/dealers accounts information
- can post news in the newsletter section

4. Non - Functional Requirements

- **Usability**

The application is easy to use with intuitive interface and clear information regarding a specific car.

If more information is needed, the user can contact the dealer anytime for an efficient communication.

- **Legal or Regulatory Requirements**

In order that a dealer to operate on the website, he/she need a valid certification that demonstrates the authenticity and adherence to local laws.

And also, the history of each car is needed in order to verify if the cars were not stolen or if other illegal measures were applied

- **Reliability**

The solution should be implemented using the latest versions of the required tools, and test each functionality in order to solve the potential bugs that can influence the data safety of the users.

Using automated testing tools in order to have an efficient testing stage and not miss some major issues that can occur while running the application.

- **Performance**

The site is using an efficient database in order to access fast the needed data.

The pages are responsive and adaptable on the user device.

The cars posts are loading in under 3 seconds on the website.

5. Scenario

“John has an old car for 10 years and he want to rent another car. A friend of him, Jeff was recommending the Car Showroom web application because is easy to use and efficient in finding the next car.

John filled the fields from the search menu with the filters he needed, the most important specifications that he needed were, the car body style should be a hard top cabrio to use it in the summer but also in the winter season to not have any problems with the roof. He selected also the engine should be maximum 2 liters in order to not pay too much for the annual car taxes.

The site immediately showed a lot of results that were fitting his wishes and after surfing a while on the site he finally found a car that suited its needs from a trusted dealer.

The car that he chose was a 2012 Peugeot 308 CC with beautiful pictures from different angles and also a detailed description and full history.

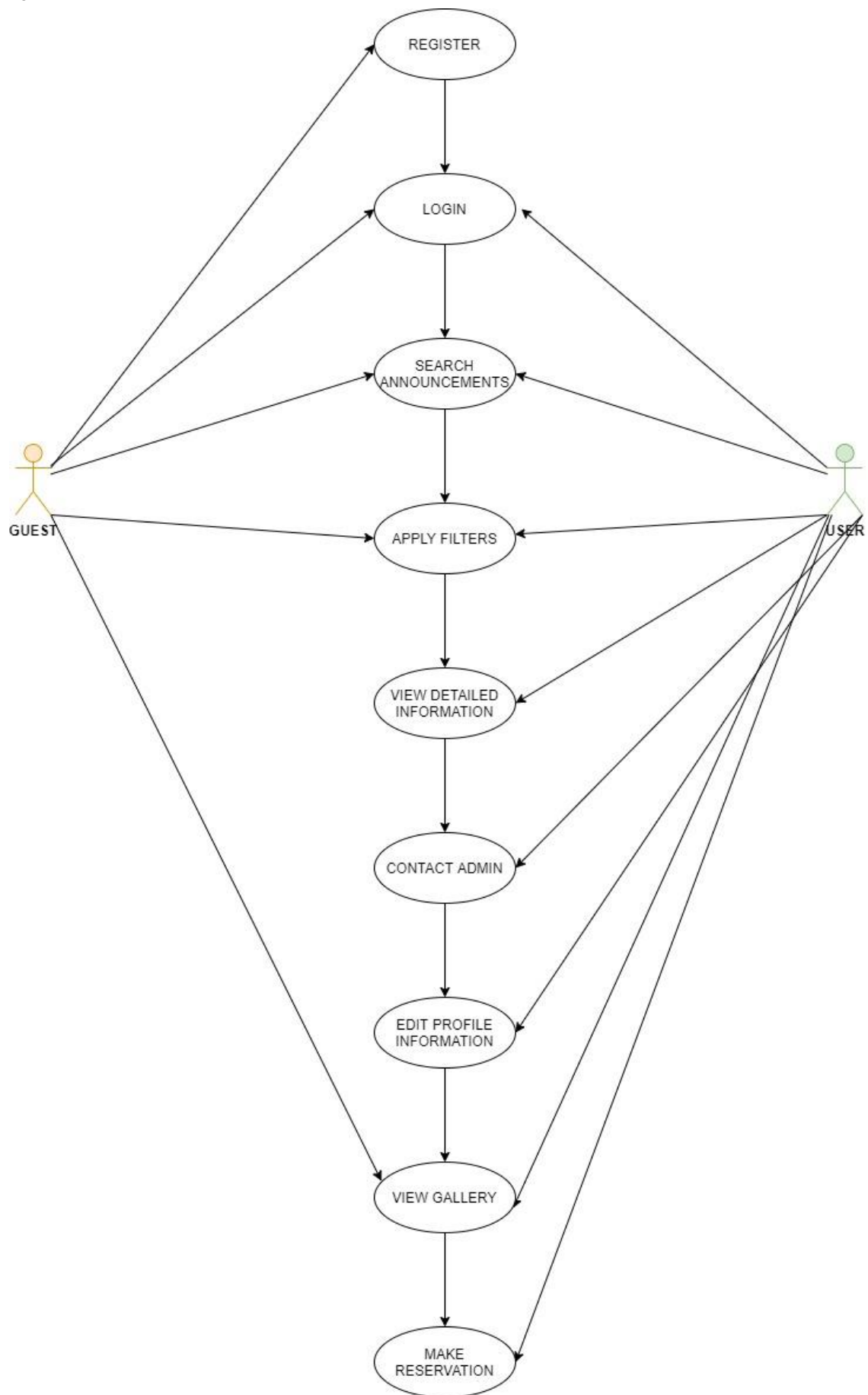
John contacted the dealer and arranged a meeting in the showroom and actually he ended up renting this car after a test drive.”

6. Use cases

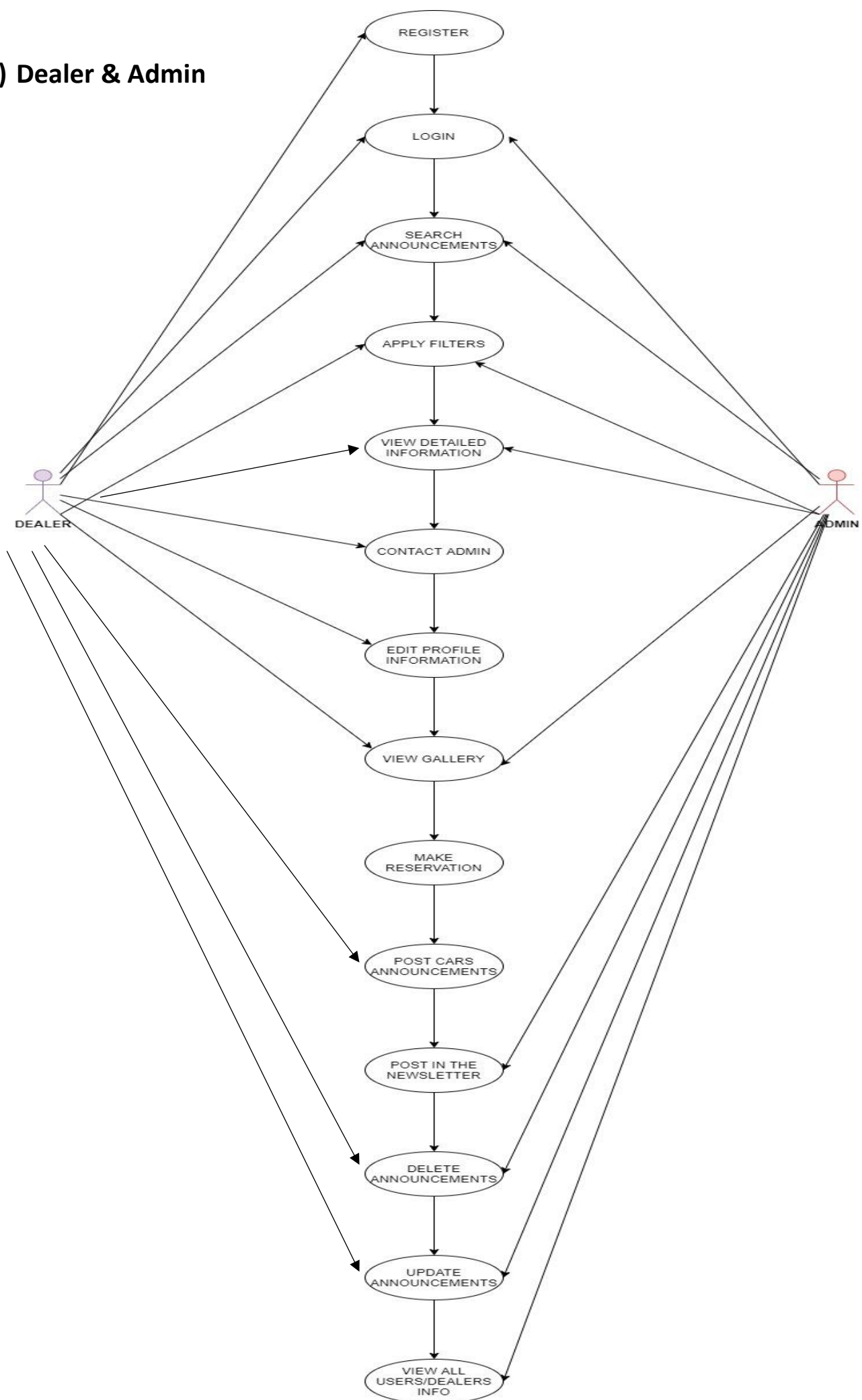
- The system displays different announcements about cars that can be rented
 - The guest registers a new account and logins
 - The user chooses the required filters to find the ideal car for him
 - The system is filtering out the results and is displaying only the models in which the user is interested
 - The user can check the full history and specification of a vehicle
 - The user can reserve the specific car in the showroom or can contact directly the dealer using the displayed number
 - The user is ending up by renting the car
-
- The user wants to send a message to the admin because he finds out that a car announcement is wrong, regarding the engine on a specific car, because that model was never produced, so the data is wrong and should be corrected

7. Use cases diagrams

a) Guest & User



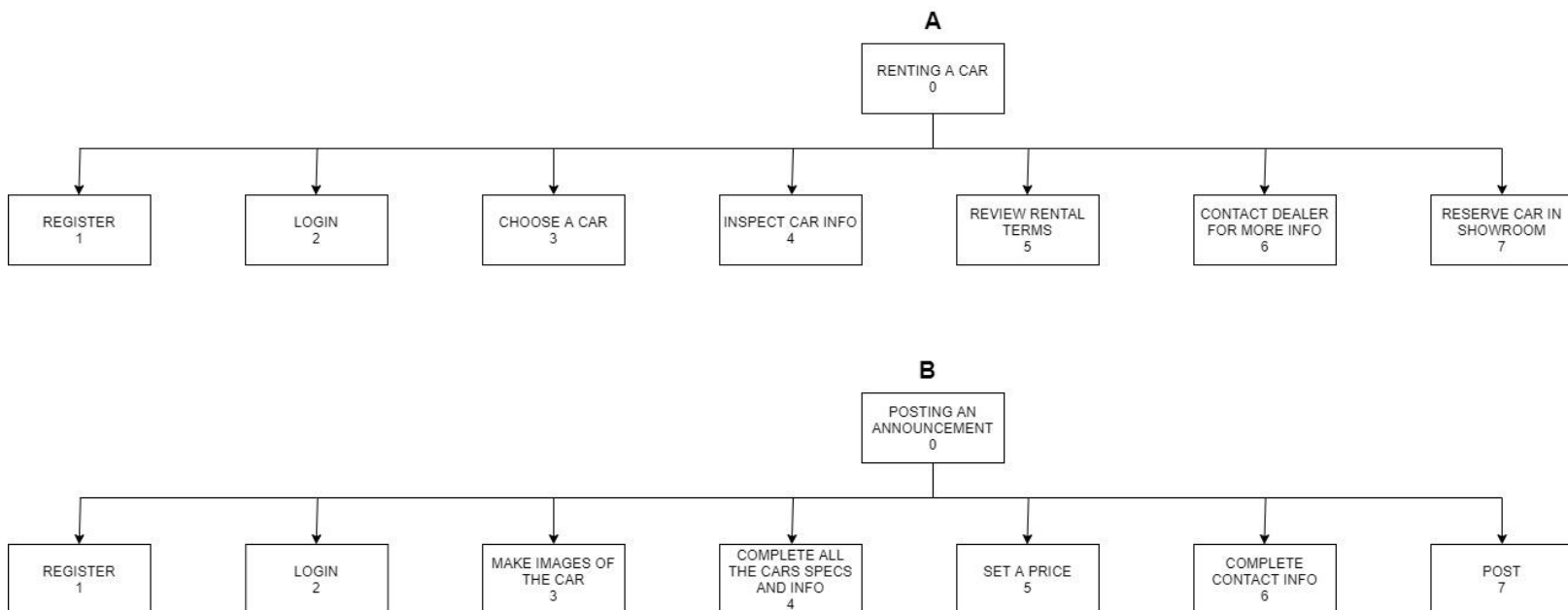
a) Dealer & Admin



c) Essential use case

User Intention	System Responsibility
Wants to rent a car	Displays all the cars in the showroom
Choose some filters	Displays the cars according to the filters
Choose a wanted car	Offering option to reserve the car or call the dealer
Wants to reserve the car	The car was reserved successfully

9. Hierarchical task analysis



- **Guest: A** 0-1-2-3-4-5-6-7
- **Regular User: A** 0-2-3-4-7
- **New Dealer: B** 0-1-2-3-4-5-6-7
- **Regular Dealer: B** 0-2-3-4-5-7

10. Personas

	<p>Name: Chris</p> <p>Age: 30</p> <p>Title: Software Developer</p> <p>Industry: IT</p>	<p>Motivation</p> <ul style="list-style-type: none">- Not depend on a specific place- Not maintain the car everyday- More cars in a short period of time	<p>Frustrations</p> <ul style="list-style-type: none">- Travelling in other cities and not having a car- Time management
<p>Description</p> <p>Chris is a software developer at his own startup company and he travel a lot with business purposes in order to get more clients, and he wants to be able of renting cars where ever he goes in order to be more efficient. Hobbies: Hiking, Swimming, Fishing</p>	<p>Goals</p> <ul style="list-style-type: none">- to buy a house in Maldives- to expand his business in more countries- to spend more time with family	<p>Motto</p> <p>"Do what you can, with what you have, where you are." – Theodore Roosevelt</p>	

	<p>Name: Amanda</p> <p>Age: 20</p> <p>Title: Sales Assistant</p> <p>Industry: Marketing</p>	<p>Motivation</p> <ul style="list-style-type: none">- Doesn't know about cars maintenance- Wants a smaller car	<p>Frustrations</p> <ul style="list-style-type: none">- Her family car is to big and old- Forgets to pay car and rent taxes on time
<p>Description</p> <p>Amanda is Sales Assistant that graduated the Financial Management Faculty and now is studying a Master Degree in Finances. She likes to do make ups and to dress with style. Hobbies: Make up, travelling, interacting with peoples</p>	<p>Goals</p> <ul style="list-style-type: none">- to start her own make up saloon- to travel in other countries- to get married	<p>Motto</p> <p>"If you can dream it, you can do it." – Walt Disney.</p>	



Name: Jake

Age: 34

Title: Tech Lead

Industry: IT

Motivation

- Always on the run
- Wants to drive exotic cars
- Wants to participate to car racings

Frustrations

- Cars Maintenance
- Specific supercars are more hard to find

Description

Jake is a Tech Lead at Google being a high value person in his social circle. He wants to not depend on a specific place, always traveling and exploring the unknown.
Hobbies: Swimming, Racing, Yachting, Basketball

Goals

- to move in the Caribbean
- to spend more time with his 6 years old daughter
- to make a second child
- to explore the nature

Motto

"Trust yourself that you can do it and get it." – Baz Luhrmann.