

User Requirement Specifications (URS) Document

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# Introduction

# This section presents an overview of the project, detailing its objectives, scope, and stakeholders.

# The project aims to offer a comprehensive solution tailored to the needs of the automotive community. It seeks to enhance user experience and operational efficiency by addressing three key areas: implementing a robust car news platform, developing a seamless car rental system, and providing effective management tools for both users and administrators.

# Client Agreement

1. The project focuses on delivering systems to enhance various aspects:
2. Management of car inventory and operations.
3. Efficiency of automotive community members.
4. Tracking and analyzing statistics related to user interactions and platform administration.
5. The objective is to deliver a complete software solution within the designated timeline outlined in the project plan.

# General Requirements

1) The system should allow users to easily find information related to cars.

2) The system should allow users to browse and rent a car easily.

# Functional Requirements

1. **Users**
2. They should be able to leave comments under car news.
3. Are able to choose and rent a car.
4. Should be able to log into their accounts.
5. **Administrators**
   * 1. Must oversee all users’ details.
     2. Should be able to manage the car news.
     3. Should be able to manage the replies on the news.
     4. Should be able to manage the available cars for rent.
     5. Should be able to manage the contact information on the website.
6. **Data Management**
   * 1. Specify data handling, storage, and backup procedures.
     2. Establish guidelines for data accuracy and consistency.

# Non-Functional Requirements

1. The system must be user-friendly and accessible.
2. Compliance with relevant legal and ethical standards.
3. The system should ensure data security and privacy.
4. System Performance Requirements:
5. Define performance metrics:
   * 1. Acceptable load time and response time.
     2. Ensure system scalability and reliability.
6. Ensure system performance quality for web application.
7. Ensure system performance quality for both desktop application.
8. Security Requirements:
   1. Detail authentication.
   2. Authorization measures.
   3. Outline data encryption
   4. Protection strategies.
   5. Administrators being the only ones with capabilities to access desktop app.

# Use Cases

**Use Case 1:** User Registration (1.1; 2.3)

Actor: New User

Description: A new user intends to register an account to access additional features and services within the automotive community platform.

**Steps:**

1) The visitor accesses the automotive community platform.

2) They locate and select the "Sign Up" option.

3) The system prompts them to complete a registration form, providing essential details such as username, email, and password.

1. Upon form submission, the system validates the provided information.
2. If the information is valid, the system generates a new user account for the visitor.
3. The visitor receives a confirmation message and gains access to their newly created account.

**Non-success scenario:**

6a. If the provided information is invalid (e.g., invalid email format, password too weak), the system prompts the visitor with error messages indicating the fields requiring correction.

6b. The visitor revises the invalid information and resubmits the form.

6c. Steps 5 and 6 are repeated until all provided information is valid.

**Use Case 2:** Car Rental Booking (2.1)

Actor: Logged-in User

Description: A logged-in user wishes to book a car rental online through the automotive community platform.

**Steps:**

1. The user logs into their account on the automotive community platform.
2. They navigate to the car rental section.
3. The system displays available car rental options, presenting details such as vehicle types, rental duration, and pricing.
4. The user selects their desired car rental option and proceeds to the booking page.
5. They provide necessary booking information and initiate the reservation.

**Non-success scenario:**

5a. If the provided booking information is invalid (e.g., incomplete details, conflicting dates), the system alerts the user with error messages specifying the issues.

5b. The user corrects the booking information and resubmits the form.

5c. Steps 4 and 5 are repeated until valid booking information is provided.

**Use Case 4:** Content Management (3.\*)

Actor: Platform Administrator

Description: The platform administrator aims to manage and oversee content within the automotive community platform.

**Steps:**

The administrator accesses their administrative account on the automotive community platform.

They navigate to the content management section or dashboard.

The system presents an overview of available content, including articles, news updates, and user-generated posts.

The administrator can add new content, edit existing content, or remove outdated material as required.

They may also moderate user-generated content, ensuring adherence to community guidelines and standards.

**Non-success scenario:**

4a. If issues arise during content management (e.g., technical errors, content moderation disputes), the system notifies the administrator and provides guidance on resolution steps.

4b. The administrator addresses the encountered issues and takes appropriate actions to mitigate or resolve them.

4c. Steps 3 and 4 are repeated until content management tasks are successfully completed.