Test Plan

Objectives

- Verify that all system functionalities related to user registration, car rental booking, news article commenting, and administrator content management are working as expected.
- Ensure that the system handles errors gracefully and provides users with clear instructions for resolving issues.

Scope

- The test will cover all steps outlined in the Use Cases for User Registration, Car Rental Booking, News Article Commenting, and Administrator Content Management.
- Both success and non-success scenarios will be tested.

Use Cases and Test Cases

UC	TC	Name	Pre-condition	Test Data	Expected result
UC1	TC1.1	Successful User Registration	Follow the steps outlined in the Use Case.	All fields and actions valid.	The user receives a confirmation message and can log in.
UC1	TC1.2	Invalid Email Format	Follow the registration steps but enter an invalid email.	Invalid email format.	The system displays an error message indicating the issue.
UC1	TC1.3	Password Too Short	Enter a password shorter than the system's minimum.	Short password.	An error message indicating the password is too short.
UC2	TC2.1	Successful Car Rental Booking	Follow the steps outlined in the Use Case.	All fields and actions valid.	The booking is completed successfully, and the user receives a confirmation.

UC2	TC2.2	Invalid Rental Data	Enter incorrect rental data (e.g., invalid dates).	Invalid rental data.	The system displays an error message indicating the issue.
UC3	TC3.1	Successful Commenting on News Article	Follow the steps outlined in the Use Case.	All fields and actions valid.	The comment is posted successfully under the article.
UC3	TC3.2	Comment with Prohibited Content	Enter a comment with prohibited content.	Prohibited content.	The system displays an error message indicating the issue.
UC4	TC4.1	Admin - Add New Car	Follow the steps outlined in the Use Case.	All fields and actions are valid.	The new car is added successfully without errors.
UC4	TC4.2	Admin - Invalid Car Data	Enter car data in an incorrect format.	Incorrect car data.	The system displays an error message indicating the issue.
UC5	TC5.1	Admin - Post New News Article	Enter car data in an incorrect format.	All fields and actions are valid.	The new article is posted successfully without errors.
UC5	TC5.2	Admin - Invalid Article Data	Enter news article data in an incorrect format.	Incorrect car data.	The system displays an error message indicating the issue.
UC6	TC6.1	Admin - Update Personal Information	Follow the steps outlined in the Use Case.	All fields and actions are valid.	The updated information is saved successfully.
UC6	TC6.2	Admin - Invalid Personal Data	Enter personal information in an incorrect format.	Incorrect car data.	The system displays an error message indicating the issue.