

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.	Username: johndoe, Email: johndoe@example.com, Password: Password, Driving License: 123456789	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.	Username: johndoe, Email: johndoeexample.com, Password: Password, Driving License: 123456789	The system displays an error message indicating the issue.
UC1	TC1.3	Password Too Short	Enter a password shorter than the system's minimum.	Username: johndoe, Email: johndoeexample.com, Password: Pass, Driving License: 123456789	An error message indicating the password is too short.
UC2	TC2.1	Successful Car Rental Booking	Follow the steps outlined in the Use Case.	Car: Toyota Rav4, Rental Duration: 5 days, Start Date: 2024-07-10, End Date: 2024-07-15	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).	Car: Toyota Rav4, Rental Duration: 5 days, Start Date: 2024-07-10, End Date: 2024-07-05	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.	Article: BMW M8, Comment: "Great article on the new car!"	The comment is posted successfully under the article.
UC3	TC3.2	Comment with Prohibited Content	Enter a comment with prohibited content.	Article: BMW M8, Comment: ""	The system displays an error message indicating the issue.
UC4	TC4.1	Admin - Add New Car	Follow the steps outlined in the Use Case.	Brand: Tesla, Model: Model S, Price: \$80000, Color: Blue, VIN: HJ544634K6 Specifications: Electric, Range: 400 miles, Images: tesla_model_s.jpg	The new car is added successfully without errors.
UC4	TC4.2	Admin - Invalid Car Data	Enter car data in an incorrect format.	Brand: Tesla, Model: Model S, Price: \$80000, Color: Blue, VIN: HJ544634K6 Specifications: Electric, Range: 400 miles, Images: invalid_image.txt	The system displays an error message indicating the issue.
UC5	TC5.1	Admin - Post New News Article	Enter car data in an incorrect format.	Title: "New Tesla Model S Released", Content: "Tesla has released the new Model S with a range of 400 miles.", Images: tesla_news.jpg	The new article is posted successfully without errors.
UC5	TC5.2	Admin - Invalid Article Data	Enter news article data in an incorrect format.	Title: "New Tesla Model S Released", Content: "", Images: tesla_news.jpg,	The system displays an error message indicating the issue.
UC6	TC6.1	Admin - Update Personal Information	Follow the steps outlined in the Use Case.	Name: John Doe, Contact: JD@example.com, Password: Password	The updated information is saved successfully.

UC6	TC6.2	Admin - Invalid Personal Data	Enter personal information in an incorrect format.	Name: John Doe, Contact: JD@example.com, Password: Pass	The system displays an error message indicating the issue.
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