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| **UC** | **TC** | **Name** | **Pre-condition** | **Test Data** | **Expected result** | **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. | Yes |
| **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. | Yes |
| **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. | Yes |
| **UC2** | **TC2.1** | Successful Car Selection | Follow the steps outlined in the Use Case. | Member navigates to the Car Market page, browses cars, selects a car, and proceeds to the Details page. | The system displays the selected car information on the Details page. | Yes |
| **UC2** | **TC2.2** | No Cars Match Filters | Set filters that do not match any cars. | Filters: Brand: Nonexistent, Price Range: $0-$10 | The system displays a message indicating no cars match the selected filters. | Yes |
| **UC3** | **TC3.1** | Successful Car Rental Booking | Follow the steps outlined in the Use Case. | Car: Toyota Rav4, Rental Duration: 5 days, Start Date: 2024-11-10, End Date: 2024-11-15 | The booking is completed successfully, and the user is redirected to a congratulation page. | Yes |
| **UC3** | **TC3.2** | Invalid Rental Dates | Enter invalid rental dates (e.g., end date before start date). | Car: Toyota Rav4, Rental Duration: 5 days, Start Date: 2024-07-15, End Date: 2024-07-10 | The system alerts the user with error messages and prompts to correct the errors. | Yes |
| **UC4** | **TC4.1** | 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 under the article, and the member sees their comment live. | Yes |
| **UC4** | **TC4.2** | Comment with Prohibited Content | Enter a comment with prohibited content. | Article: BMW M8,  Comment: "This is a spam comment with offensive language" | The adfmin rejects the comment and it does not display on the article’s page. | Yes |
| **UC5** | **TC5.1** | Admin - Post New News Article | Follow the steps outlined in the Use Case. | 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. And the list in CarNews page is updated with the new car. | Yes |
| **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. | Yes |
| **UC6** | **TC6.1** | 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. And the list in Car Controls page is updated with the new car. | Yes |
| **UC6** | **TC6.2** | 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. | Yes |
| **UC7** | **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. And new admin information is loaded in Admin page. | Yes |
| **UC7** | **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. | Yes |