Assignment 8

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Batch :- CSE

Subject :- Software testing for business management

1 Case study of test case for IRCTC portal.

A) Functional Test Cases :-

1) User Registration :-

→ Test Case: Verify that a new user can successfully register on the IRCTC portal.

→ Expected Outcome: User should receive a confirmation message and be able to login with the newly created credentials

2) Train Search and Booking :-

→ Test Case: Search for available trains between two cities on a specific date and book a ticket.

→ Expected outcome: A list of available trains should be displayed, and the user should be able to successfully book a ticket.

3) Ticket Cancellation :-

→ Test Case :- Cancel a booked ticket within the Cancellation window

→ Expected outcome :- The ticket should be Canceled, and the refund process should be initiated.

4) Seat Availability:

→ Test Case: Check the availability of seats on a specific train for a specific class.

→ Expected Outcome: The portal should display the current availability of seats in the chosen class

Non-Functional Test Cases:

1) Usability:

→ Test Case: Evaluate the user-friendliness of the IRCTC portal by a new user.

→ Expected Outcome: The portal should have an intuitive and easy-to-use interface that allows the user to navigate and perform tasks without confusion.

2) Performance - Response Time:-

→ Test Case: Simulate a high number of concurrent users searching for trains, and measure the system's response time.

→ Expected Outcome:- The response time should within an aceptable range even under heavy load.

3) Security -login:-

→ Test Case: Test the security of the login process by attempting to log in with incorrect credentials.

→ Expected outcome: the system should not allow unauthorized access and should provide appropriate error messages.

4) Availability :-

→ Test Case : Simulate server downtime and check the system's response.

→ Expected Outcome : The system should provide a user-friendly error message indicating that the service is temporarily unavailable.

5) Scalability :-

→ Test case :- Test the system's ability to handle a sudden surge in users during peak booking times.

→ Expected Outcome :- The system should be able to scale up resources to accommodate the increased user load without performance degradation.