

LAB WORK - 09

On the basis of required validation map the different test cases to handle all possible critical cases which may arise during the life cycle of the software.

Validating a Book recommendation System like Open Book Circle involves ensuring that it provides accurate recommendations, handles user interaction smoothly.

Here are some critical test cases covering various aspect of the software lifecycle.

1- Input Validation

- Verify that the System handles various input format correctly (e.g ISBN, Book titles, author name).
- Test how the system responds to invalid input such as special characters, empty fields.

2- Recommendation Accuracy:-

- Test the accuracy of recommendation by providing different user profiles with varying interests and preferences.

3. Performance Testing-

Measure system response time for generating recommendation, especially as the user database grows.

4. User Interaction:-

- Ensure smooth handling of user interaction such as search queries, filtering options, and profile updates.

5. Algorithm performance:-

- Test Case: Evaluate the performance of the collaborative filtering algorithm in terms of accuracy, speed, and scalability with different size of datasets.

6. Model Training:-

Test case: Verify that the machine learning model is trained properly on the training dataset.

7. Error Handling:-

- Test Case: Verify that appropriate error handling mechanisms are in place, providing informative message to user in case of failure exception.

These test cases cover critical aspects of the Open Book Circle ~~web~~