

# Software Test Design

**IMDB**

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## 1. Introduction

### a. Document overview

The Software Test Plan (STP) outlines the testing approach, objectives, and methodologies for the Quality Assurance (QA) automation testing of the IMDb website. IMDb is a popular online database for movies, TV shows, and video games, providing users with information about cast, crew, plot summaries, and reviews.

### b. Project overview

The IMDb website is a critical platform for users to access and discover information about a wide range of media content. The STP aims to ensure that the IMDb website functions effectively, providing users with a seamless and reliable experience. It defines the scope of testing, identifies testing objectives, and outlines the testing approach to be followed.

### c. project references

The purpose of this STP is to:

Define the scope and objectives of the QA automation testing for the IMDb website.

Identify the roles and responsibilities of the testing team.

Outline the testing approach and methodologies to be used.

Specify the test environment, including hardware, software, and network configurations.

Detail the test deliverables, including test cases and defect reports.

Establish a timeline for testing activities.

Identify potential risks and mitigation strategies.

Define metrics for measuring the effectiveness of the testing process.

## 2. Tests basic preparations

### a. Hardware basic preparation

- i. **System Requirements Check:** Verify that your PC meets the system requirements specified for IMDb. Check for minimum hardware specifications such as CPU, RAM, and disk space.
- ii. **Web Browser Installation:** Ensure that you have the latest versions of popular web browsers (e.g., Chrome, Firefox, Safari) installed on your PC. IMDb testing may involve cross-browser compatibility checks.
- iii. **Network Connectivity:** Confirm that your PC has a stable internet connection. IMDb is an online platform, and network stability is crucial for testing functionalities like search and content retrieval.
- iv. **User Account Access:** If your testing involves user authentication scenarios, ensure you have valid user accounts to log in and test features that require authentication.
- v. **Data Setup:** If IMDb testing involves specific data scenarios, ensure that you have the necessary test data available or create sample data that represents different use cases.

#### b. Software basic preparation

- i. **Web Browsers:** Install the latest versions of popular web browsers (e.g., Chrome, Firefox, Safari) to ensure compatibility testing. IMDb should function correctly across different browsers.
- ii. **Integrated Development Environment (IDE):** If you're involved in automation testing, install a suitable IDE such as PyCharm.
- iii. **Documentation Tools:** Use documentation tools (e.g., Microsoft Word, Google Docs) to create and maintain test plans, test cases, and other testing documentation.
- iv. **Password Managers:** Consider using password managers to securely store and manage login credentials used during testing.

### C. Data preparation

- i. Understand Data Requirements: Gain a clear understanding of the data requirements for testing IMDb. This includes information about movies, TV shows, actors, user accounts, and any other relevant data.
- ii. Identify Test Scenarios: Based on the testing scope, identify test scenarios that require specific data. For example, scenarios involving search functionality, user reviews, or personalised recommendations.
- iii. Create or Extract Sample Data: Generate or extract sample data that represents a variety of test scenarios. This may include movie details, user profiles, reviews, and other relevant information.
- iv. Prepare User Accounts: If user authentication and account-related functionalities are part of your testing scope, prepare valid user accounts with different roles and permissions.

### 3. Test scenarios

- a. Home page
  - i. Menu
    - Most Popular Movies
      - a. Number of Rating
    - Top 250 TV Shows
      - a. Rate
  - ii. Search
    - All
      - a. Search movie
      - b. Rate the movie
    - Celebs (people)
  - iii. Watchlist
    - Adding movie
    - Deleting movie
  - iv. Sign in
    - login with an imdb account
    - sign in with google
  - v. Language
    - English
    - Français (France)
  - vi. Browser trailers
    - Play a video
    - Mute a video
    - Unmute the video
    - Fullscreen
  - vii. Social media apps
    - Go to Instagram
    - Go to YouTube

#### 4. Test case steps

a. Test Case Title: Verify Successful Sign-In with valid Gmail account

i. Preconditions:

- The user has a valid Gmail account.
- The user is on the application's sign-in page.

ii. Steps:

1. Enter a valid Gmail account username.
2. Click on the "Next" button.
3. Enter the corresponding valid password.
4. Click on the "Sign In" or "Next" button.
5. Verify that the user is successfully logged in.
6. Check if the user is redirected to the expected landing page/dashboard.
7. Confirm that the user's profile information is displayed correctly.
8. Log out of the account.

Expected Result: User should be successfully signed in, redirected to the dashboard, and their profile information should be accurate.

b. Test Case Title: Verify Successful Sign-In with valid IMDb account

i. Preconditions:

- The user has a valid IMDb account.
- The user is on the IMDb website.

ii. Steps:

- Navigate to the IMDb website.
- Locate and click on the "Sign In" button.
- Enter valid credentials (username and password).
- Click on the "Sign In" or "Log In" button.
- Verify that the user is successfully logged in.
- Check if the user is redirected to the expected landing page/dashboard.
- Confirm that the user's profile information is displayed correctly.

Expected Result: User should be successfully signed in, redirected to the dashboard, and their profile information should be accurate.

c. Test Case Title: Add Movie to Watchlist on IMDb

i. Preconditions:

- The user has a valid IMDb account.
- The user is logged in to the IMDb website.

ii. Steps:

- Navigate to the IMDb website.
- Search and locate the desired movie title.
- Click on the movie title to open its details page.
- Look for the "Add to Watchlist" or similar button.
- Click on the "Add to Watchlist" button.
- Verify that the movie is successfully added to the user's watchlist.
- Navigate to the user's profile or watchlist section to confirm the addition.
- Optionally, check for any confirmation message indicating successful addition.

Expected Result: The selected movie should be successfully added to the user's watchlist, and the user should see a confirmation of the addition in the watchlist section of their IMDb account.

d. Test Case Title: Remove Movie from Watchlist on IMDb

i. Preconditions:

- The user has a valid IMDb account.
- The user is logged in to the IMDb website.
- The selected movie is already added to the user's watchlist.

ii. Steps:

- Navigate to the IMDb website.
- Go to the user's profile or watchlist section.
- Locate the added movie in the watchlist.
- Look for the "Remove from Watchlist" or similar button.
- Click on the "Remove from Watchlist" button.
- Verify that the movie is successfully removed from the user's watchlist.
- Optionally, check for any confirmation message indicating successful removal.

Expected Result: The selected movie should be successfully removed from the user's watchlist, and the user should see a



confirmation of the removal in the watchlist section of their IMDb account.

e. Test Case Title: Search for a Movie on IMDb

i. Preconditions:

- The user has access to the IMDb website.
- The user is on the IMDb homepage or search page.

ii. Steps:

- Navigate to the IMDb website.
- Locate the search bar at the top of the page.
- Enter the name or keywords of the desired movie in the search bar.
- Press the "Enter" key or click on the search icon.
- Observe the search results page for the presence of the movie.

Expected Result: The search results page should display relevant movies matching the entered keywords or movie name. The desired movie should be included in the search results.

f. Test Case Title: Search for Celebrities on IMDb

i. Preconditions:

- The user has access to the IMDb website.
- The user is on the IMDb homepage or search page.

ii. Steps:

- Navigate to the IMDb website.
- Locate the search bar at the top of the page.
- Enter the name or keywords of the desired celebrity in the search bar.
- Press the "Enter" key or click on the search icon.
- Observe the search results page for the presence of the celebrity.

Expected Result: The search results page should display relevant celebrities matching the entered keywords or celebrity name. The desired celebrity should be included in the search results, along with relevant information about their filmography and other details.

g. Test Case Title: Rate TV Show on IMDb's Top 250 TV Shows

- i. Preconditions:
  - The user has a valid IMDb account.
  - The user is logged in to the IMDb website.
  - The user is on the IMDb Top 250 TV Shows page.
- ii. Steps:
  - Navigate to the IMDb website.
  - Locate and click on the "Top Rated Shows" or similar menu option.
  - Browse the list and select a TV show to rate.
  - Click on the selected TV show to open its details page.
  - Look for the "Rate This" or similar button.
  - Click on the "Rate This" button.
  - Choose a rating from the available options (e.g., 1 to 10 stars).
  - Optionally, provide a written review or comment.
  - Click on the "Submit" or "Rate" button to submit the rating.

Expected Result: The user's rating and any additional comments should be successfully submitted. The TV show's overall rating should reflect the user's input. Optionally, verify that the user's rating and comments are visible on the TV show's details page.

## 5. Requirements Traceability

ID	Main Requirements	Sub Requirements	Description	Ass. ID	Test Case	Purpose
1	Sign In	Login with IMDb Account	Log in with a valid IMDb account	TC_SI01	Login with IMDb Account with Valid Login Credentials	Confirm successful login with IMDb account
2	Sign In	Sign In with Google	Log in with a Google account	TC_SG01	Successful Sign In with Google	Confirm successful login with Google account
3	Watchlist	Adding Movie	Add a movie to the watchlist	TC_WA01	Add Movie to Watchlist Successfully	Ensure successful addition to watchlist
4	Watchlist	Deleting Movie	Remove a movie from watchlist	TC_WD01	Remove Movie from Watchlist Successfully	Ensure successful removal from watchlist
5	Menu	Most Popular Movies	Access most popular movies section	TC_MP01	Navigate to Most Popular Movies	Ensure successful access to the section
6	Most Popular	Number of	Sort ratings	TC_NR01	Sort by Highest	Validate the

	Movies	Ratings	for a popular movies		Ratings	accuracy of ratings
7	Menu	Top 250 TV Shows	Access Top 250 TV shows section	TC_TT01	Navigate to Top 250 TV Shows Section	Ensure successful access to the section
8	Top 250 TV Shows	Rate a movie or TV show	Rate a movie or TV show	TC_R01	Successfully Rate a TV Show	Test the functionality of rating
9	Search	All	Search for a specific movie	TC_S01	Search for an Existing Movie	Confirm the functionality of movie search
10	Search	calabs	Search for a specific people	TC_SM01	Search for an Existing Person	Confirm the functionality of general search
11	Language	Change to English	Change website language to English	TC_L01	Change Website Language from Default	Confirm successful language change to English
12	Language	Change to Français (France)	Change website language to Français	TC_L02	Change Website Language from Default to Français (France)	Confirm successful language change to

			(France)			Français
13	Browser Trailers		Play a video	TC_BT01	Successfully Play a Video	Test the functionality of playing a video
14	Browser Trailers		Mute the video	TC_BT02	Successfully Mute a Video	Confirm successful video muting
15	Browser Trailers		Unmute the video	TC_BT03	Successfully unmute a Video	Confirm successful video unmuting
16	Browser Trailers		Enter fullscreen mode	TC_BT04	Successfully Fullscreen a Video	Confirm successful entry into fullscreen mod
17	Social Media Apps	Go to Instagram	Open Instagram page	TC_SA01	Check for Instagram Link in the Navigation Menu	Confirm successful navigation to Instagram
18	Social Media Apps	Go to YouTube	Open YouTube page	TC_SA02	Check for YouTube Link in the Navigation Menu	Confirm successful navigation to YouTube