



## Detailed Test Plan - TED.com Website

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## Document History

### Revision History

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| V 0.1          | Jan 01, 2026  | Initial Version                                     | Layal      |
| V 1.0          | Jan 03, 2026  | Final version after review and adding all sections. | Layal      |
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### Reviewer

| Name  | Position/ Department | Version | Review Date  |
|-------|----------------------|---------|--------------|
| layal | QA Tester            | 1.0     | Jan 03, 2026 |
| Sara  | QA Lead              | 1.0     | Jan 04, 2026 |

### Approvals

| Name | Position/ Department | Version | Approve Date |
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| Sara | QA Lead              | 1.0     | Jan 05, 2026 |

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## 1 Introduction

### 1.1 Background

TED is a non-profit educational platform that provides lectures, videos, and TED Talks across a wide range of topics including technology, entertainment, design, science, business, and global issues.

The website aims to inspire, educate, and share innovative ideas with a global audience.

The platform offers multiple features such as:

- Video playback with subtitles in various languages
- Search functionality to find talks by topic, speaker, or keyword
- Navigation through categories and curated playlists
- User interaction features like sharing, bookmarking, and commenting

This test plan focuses on validating the core functionalities, usability, and responsiveness of the TED website to ensure that users can access content seamlessly, interact with the platform effectively, and experience a consistent and bug-free interface.

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### 1.2 Testing Objectives

The objectives of testing are as follows:

Functional Testing:

- a. Verify that all main functions website work correctly
- b. Ensure all internal and external links navigate to correct destination
- c. Check that search engine return accurate results
- d. Verify that video content can be played, paused, and stopped without errors

User Interface & Navigation:

- e. Ensure the navigation bar works correctly across all pages.
- f. Confirm that the user interface is clean, and responsive on desktop, tablet, and mobile devices.
- g. Check that all buttons, icons, and interactive elements function as intended.

Content Verification:

- h. Confirm that all statements, headings, and labels are correctly placed and readable.

Exploratory Testing:

- i. Identify and document any bugs or undesired behavior during testing.

Smoke Testing:

- j. Perform smoke testing to verify that main functions of the TED website are working before detailed testing.

### 1.3 Roles and Responsibilities

| Role      | Name  | Email/ Telephone       | Responsibilities  |
|-----------|-------|------------------------|---|
| QA Tester | Layal | Layalfrh2016@gmail.com | Create detailed test plan<br>Designing and executing test cases.<br>Reporting and documenting defects.<br>Preparing the final Test Summary Report |
| QA Lead   | sara  | Saramoh23@gmail.com    | Reviewing and approving the Test Plan<br>Providing guidance and oversight.<br>Assisting in defect prioritization                                  |

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### 1.4 Definition and Acronyms

This section provides information regarding the Acronyms and terminology specifically used in this document.

**Table 2: Definitions and Acronyms**

| Acronym | Definition          |
|---------|---------------------|
| TC      | Test Case           |
| Bug     | Bug / Defect Report |
| FA      | Functional Area     |
| HRD     | Header              |
| SRC     | Search              |
| TS      | Test Scenario       |
| UI      | User Interface      |

## 2 Testable Items

### 2.1 In Scope

This test activity focuses on the following:

- a. Homepage – verify main sections load correctly
- b. Responsive UI \_ ensure proper display on desktop, tablet, and mobile devices.
- c. Search engine \_ validate search functionality and results.
- d. Navbar – ensure menu items and dropdowns function correctly.
- e. verify video playback, pause, stop, and subtitle options
- f. Hyper links and buttons \_ ensure all clickable elements navigate to the correct destinations.

#### 2.1.1 Functional Scope

To list all functional area and description that will be in scope of testing.

Table 3: Functional

| Functional Area | Functional Sub Area   | Description  |
|-----------------|-----------------------|--|
| Header          | Navbar                | The main navigation bar (Watch, Discover, Attend, Participate, About, Sign in) is present and visible at the top of the page |
| Header          | Navbar links          | All links navigate to desired destination  |
| Header          | Dropdown Menus        | Menu items with dropdowns (like Discover) expand on hover/click and their links work.  |
| Header          | Buttons action        | Membership button is functional and opens Membership page  |
| Header          | Sign In Button        | The "Sign In" button in the header is functional and opens the login page  |
| Header          | Search Functionality  | The search icon opens the search bar entering a keyword and pressing Enter initiates a search.                               |
| Search          | No Results Found      | The system displays a message when no results are found.   |
| Search          | Search result         | The system displays relevant TED Talks based on the search keyword   |
| Homepage Body   | Video Card display    | Videos cards on the home page display title ,speaker ,duration ,topic and publication information                            |
| Homepage Body   | Video Card Navigation | Clicking on any video card navigates the user to the correct video player page.  |
| Homepage Body   | Section Navigation    | Clicking on "Browse all." or "See all" links for sections (e.g., Popular, Newest) navigates to the correct category page     |
| Homepage Body   | trending tedx ideas   | All cards within the "Trending TEDx ideas" section navigate to the correct video page.                                       |
| Video Player    | Playback Controls     | The video player has functional controls: play, pause, and stop  |
| Video Player    | Transcription         | The video transcription enabled and is synchronized with the video   |

|        |                         |  |
|--------|-------------------------|--|
| Footer | Footer Links Navigation | All links within the footer navigate to their correct respective pages.            |
| Footer | Footer Links Navigation | All footer icons navigate to the correct external sites ex .(instgram ,twitter ..) |
| Footer | Newsletter Subscription | The user can enter an email and subscribe to the newsletter.                       |

### 2.1.2 Non Functional Scope

To list all non functional area and description that will be in scope of testing.

**Table 4: Non Functional**

| Non Functional Requirement | Description   |
|----------------------------|---|
| Performance                | The home page must load within 4 seconds under normal network conditions                      |
| Compatibility              | The website must support many different browsers ( chrome ,edge ,safari ,firefox ..)          |
| Responsiveness             | The website must be adaptable and useable on different screen sizes (mobile, tablet, desktop) |
| Accessibility              | All interactive elements must be accessible via keyboard                                      |
| Usability                  | The interface must be intuitive and easy to use for first time users                          |

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### 2.2 Out of Scope

**Table 5: Out of Scope Content**

| Item | Description   |
|------|---|
| 1    | External video content  |
| 2    | Mobile applications   |
| 3    | Advanced security testing (penetration testing, vulnerability scanning) |
| 4    | Payment gateway integration   |
| 5    | Maintainability/internal code structure                                 |

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### 2.3 Testing Exclusions

The following items will not be tested in this test plan due to limitations in testing environment and access:

- a. Email notifications and newsletters, as they require user account registration and email verification.
- b. Membership confirmation emails, as they require email access and account verification
- c. Email-based features due to lack of test accounts
- d. Third-party services managed outside TED's control

## 2.4 Risk and Assumptions

### Assumptions:

- a. The website will remain stable and accesable throughout the scheduled testing period and without any changes
- b. The required test environments (specified operating systems, browsers, and devices) will be available for testing.

### Risks :

- a. Changes on TED.com during testing could affect results.
- b. The TED.com website might undergo a major, unannounced update during the testing period, which could invalidate some test cases and require rework
- c. Limited access to a wide range of real mobile devices may result in some device specific bugs not being discovered.

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### 3 Detailed Test Approach

This section outlines the strategy and key activities that will be used to test <https://www.ted.com/> website using manual testing approach, focusing on validating core functionalities, usability, exploratory testing and non-functional requirements defined in this test plan, considering the website is a live, publicly available platform.

#### Test levels and types :

- a. To freely navigate the website without predefined test cases in order to identify defects that may not be covered by formal testing.
- b. Smoke testing : to perform a quick check on critical functionalities before detailed testing start
- c. Functional Testing : Ensure all functionality in scope work correctly and meet requirements
- d. UI and Usability testing : To ensure that the user interface is clear, consistent, and easy to use
- e. Responsive Testing : To verify that the website adapts correctly to different screen sizes (desktop, tablet, and mobile)
- f. Compatibility Testing: To confirm proper functionality across major browsers (Chrome, Edge, Firefox, Safari).
- g. Accessibility Testing : To verify that all essential features are accessible using keyboard navigation

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#### 3.1 Naming Conventions for Function Groups and Functions

To ensure clarity and consistency, all test artifacts will follow a standardized naming convention.

Test Case ID Convention :

Test Case ID will use the prefix TC for this format TC\_FA\_xxx

Example: TC\_HDR\_001 - Verify clicking the "Watch" link navigates to the correct page

Test Scenario ID Convention :

Test scenario ID will use the prefix TS for this format TS\_FA\_xxx

Example: TS\_HDR\_001 - Verify Header Navigation

Bug ID Convention :

Bug ID will use the prefix BUG for this format BUG-FA-XXX

Example: BUG\_HDR\_001 - "Watch" link is broken and navigates to a 404 page

FA :A short code representing the functional area being tested

<##> :A unique 3-digit sequential number

| Functional Area | Code | Test Case ID | Test Scenario ID | Bug ID      |
|-----------------|------|--------------|------------------|-------------|
| Header          | HDR  | TC_HDR_001   | TS_HDR_001       | BUG_HDR_001 |
| search          | SRC  | TC_SRC_001   | TS_SRC_001       | BUG_SRC_001 |

### 3.2 Test Case Design

This section describes the techniques that will be used to design effective test cases for the TED.com website.

Test cases will be designed based on functional and non-functional requirements and features in the scope. The goal is to maximize defect detection and ensure comprehensive test coverage.

The following test design techniques will be used :

a. Use Case and User Journey Testing: Designing end-to-end test scenarios that simulate real user behavior and workflows.

Example: A test will simulate a user's journey from landing on the homepage, searching for a topic, selecting and playing a video, and interacting with the player controls.

b. Equivalence Partitioning :Dividing input data (e.g., in search fields) into partitions of equivalent data from which test cases can be derived.

Example: The search functionality will be tested with partitions for valid keywords (e.g., "business"), non-existent keywords (e.g., "asdfghj"), and empty inputs.

c. Exploratory Testing: Freely navigating the website without predefined scripts to identify unexpected defects and usability issues based on the tester's intuition.

Example: A session will be dedicated to testing unconventional user paths, such as rapidly clicking multiple links or using browser navigation (back/forward) extensively.

#### Test Coverage Goal

Our goal is to achieve 100% coverage of the functional requirements defined in the scope (Table 3). Each functional requirement will be mapped to at least one test scenario to ensure that all specified features are tested.

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### 3.3 Test Scheduling

**Table 6:**

| Phase                 | Description  | duration |
|-----------------------|--|----------|
| Requirements analysis | Understand requirements ,define scope (In-Scope & Out-of-Scope) , Identify potential risks and areas of focus  | 5 hours  |
| Test plan             | Prepare and write the detailed Test Plan document ,Define test strategy, deliverables, and schedule ...  | 2 days   |
| Test design           | Design and write high-level Test Scenarios Write detailed, step-by-step Test Cases for all features in scope.  | 3-4 days |
| Test Execution        | Perform Smoke Test to ensure site stability. Execute all functional and UI test cases systematically Perform non-functional tests (Compatibility, Responsiveness, Accessibility). Conduct Exploratory Testing sessions. Log all defects found (Defect Management is ongoing) | 3-4 days |

|              |  |       |
|--------------|--|-------|
| Test Closure | Analyze final test results and defect metrics.<br>Prepare and deliver the final Test Summary Report. | 1 day |
|--------------|--|-------|

### 3.4 Data Build

Test data will be prepared based on functional requirements defined in the scope. Data will include:

- a. Keywords for search testing (valid and invalid)
- b. URLs for hyperlink verification
- c. Interactive elements for buttons
- d. Screen sizes for responsive testing
- e. User credentials (valid and invalid) for login testing

The data will be manually extracted from the TED.com home page and organized in a test data sheet for each test scenario.

### 3.5 Results/Sign-Off

#### 3.5.1 Suspension/Resumption Criteria

Testing will halt for a particular project item (or function) when:

- a. a Blocker defect is found. For example, if the TED.com homepage does not load at all, or if the video player fails to load for all videos.
- b. The test regions or test environment are not available (for any reason).
- c. If the test environment (e.g., internet connection, testing device) becomes unstable or unavailable.
- d. Testing will resume once the blocking issue has been resolved (e.g., the website is back online) and a smoke test confirms that the core functionality is stable again.

#### Entry and Exit criteria

This section defines the criteria for starting, completing, and pausing the test execution phase.

##### Entry Criteria :

The test execution phase will begin once the following criteria are met:

- a. This Test plan completed and approved
- b. Requirements are pre defined
- c. All test cases and test scenarios are designed and documented
- d. The test environment (specified browsers on desktop/mobile) is set up and ready.
- e. The TED.com website is online and accessible

##### Exit Criteria :

The test execution phase will be considered complete when the following criteria are met:

- a. All planned test cases executed at least once
- b. All discovered defects have been documented and reported.
- c. There are ZERO open "Critical" or "Blocker" severity defects.
- d. All "High" severity defects have a documented workaround if they are not fixed.
- e. The final Test Summary Report has been prepared and delivered.

## 4 Test Environments

This section specifies the target environments for testing the TED.com website. The goal is to ensure a consistent and functional experience across the most common platforms used by the target audience.

### 1. Operating Systems

- a. Windows 10 / 11
- b. macOS (latest version)
- c. iOS (latest version, for mobile testing)
- d. Android (latest version, for mobile testing)

### 2. Browsers

The TED.com website must be compatible and fully functional on the following browsers:

- a. Google Chrome
- b. Mozilla Firefox
- c. Microsoft Edge
- d. Safari (latest version)

### 3. Devices / Screen Sizes (for responsive testing)

- a. Desktop (1920x1080)
- b. Tablet (iPad or similar, 768x1024)
- C. Mobile (iPhone, Android devices, 375x667)

## 5 Test Deliverables

- a. Test Plan
- b. Test Cases
- c. Bug Reports
- d. Tracability Matrix
- e. Summary Report