Coursera Testing Project Requirements Document

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1. Introduction

This document defines the **functional** and **non-functional requirements** for the Coursera web automation testing project.
The goal is to ensure that critical site features — such as search, filters, navigation, and course browsing — work reliably and deliver a smooth user experience.

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2. Functional Requirements

Feature	Description	Expected Behavior	Priority
Search Courses	Users can search for courses by keywords.	Relevant courses appear based on entered keyword(s).	High
Filter Results	Filters by topic, level, language, and duration.	Selected filters refine the results correctly.	High
Sort Courses	Sort results by relevance, rating, or popularity.	Sorting updates course listings instantly.	Medium
Course Details Page	Displays course overview, syllabus, instructor info, and ratings.	Course details load correctly with no missing info.	High
Category Navigation	Allows browsing by domain (e.g., Data Science, Business).	Clicking categories loads the correct course list.	Medium
Responsive Design	Site adapts to different screen sizes.	Layout remains functional and visually correct on all devices.	Medium

Accessibility Features	Supports screen readers and keyboard navigation.	All major sections accessible via keyboard and ARIA tags.	Low

3. Non-Functional Requirements

Category	Requirement	Expected Behavior
Performance	Pages should load within 3 seconds under normal conditions.	Quick and smooth browsing experience.
Reliability	Search and filter functions must work consistently without errors.	No failures in course display or filtering.
Usability	Navigation and user actions should be intuitive.	Minimal user effort to find courses.
Compatibility	Should function correctly on Chrome, Edge, and Firefox.	Consistent layout and behavior across browsers.
Security	Site should handle HTTPS correctly and not expose sensitive data.	Secure communication and error-free HTTPS setup.
Scalability	Should handle large course lists without lag.	Smooth scrolling and loading of many courses.

4. User Stories & Use Cases

User Story	As a...	I want to...	So that I can...
US-01	Visitor	Search for a course using a keyword.	Quickly find relevant learning materials.
US-02	Visitor	Filter courses by topic or difficulty.	Narrow down my choices.
US-03	Visitor	View detailed information about a course.	Decide if it matches my interests.
US-04	Visitor	Navigate to courses by category.	Explore courses within a field.

US-05	QA Tester	Validate that filters and search work as expected.	Ensure the system provides correct results.

5. Expected Behavior Summary

- Search returns relevant and properly formatted results.

- Filters apply correctly without resetting existing selections.

- Course detail pages load quickly and display full information.

- Navigation between pages is consistent and error-free.

- The website performs well under moderate load.

6. Deliverable

A documented list of **functional and non-functional requirements**, **user stories**, and **expected behaviors** for Coursera's main workflows (search, filter, and navigation).
This document will serve as the baseline for creating **manual and automated test cases**.