**Coursera Testing Project**

**Requirements Document**

**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.

**2. Functional Requirements**

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| --- | --- | --- | --- |
| **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**

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| --- | --- | --- |
| **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**

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| --- | --- | --- | --- |
| **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**.