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| amblem | **ÇANKAYA UNIVERSITY**  **Software Engineering Department** | **A circular logo with colorful arrows  Description automatically generated** |

**SENG 303 Term Project**

**Test Plan and Test Design**

**Specifications**

**Udemy Sign-Up Page**

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**Version 1.5**

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# TEST PLAN IDENTIFIER

UdemySignupTestPlan\_V1

# INTRODUCTION

The purpose of this test plan is to verify the correctness and usability of the Udemy sign-up process. This testing process ensures that the user registration functionality works as expected and provides a consistent experience across different input scenarios.

The scope of this test plan includes testing key elements of the sign-up process including input fields for email, password and full name.

This test plan is created according to the IEEE 829-2008 standard and has a systematic approach to test execution, defect logging, and reporting.

By following this structured approach, the goal is to identify defects, ensuring that the Udemy sign-up process is reliable, user-friendly, and functional under various input conditions.

## Version Control

|  |  |  |
| --- | --- | --- |
| **Version No** | **Description of Changes** | **Date** |
| 1.0 | Initial Version | Dec. 28, 2024 |
| 1.1 | Updated to version 1.1 | Dec. 29, 2024 |
| 1.2 | Updated to version 1.2 | Dec. 30, 2024 |
| 1.3 | Updated to version 1.3 | Jan. 01, 2025 |
| 1.4 | Updated to version 1.4 | Jan. 02, 2025 |
| 1.5 | Updated to version 1.5 | Jan. 03, 2025 |

## Overview

Features to be tested:

* Input field of Full Name
* Input field of E-mail
* Input field of Password

## Scope

This test plan focuses on the testing of the Udemy sign-up process to ensure its functionality, security, and compatibility. The scope includes:

* Validating the functionality of input fields: full name, email, password.
* Ensuring proper error handling for invalid inputs.
* Verifying email format validation and duplication checks.
* Observing compatibility testing across various web browsers to ensure consistent user experience.

## Terminology

|  |  |
| --- | --- |
| **Term/Abbreviation** | **Definition** |
| IEEE 829-2008 | A standardized framework for test documentation that ensures consistency and completeness in test planning, design, and reporting |
| Test Plan | A formal document that outlines the scope, approach, resources, and schedule for testing activities to verify the quality of the System Under Test (SUT). |
| Test Case | A specific set of inputs, conditions, and expected outcomes created to validate the functionality of a specific feature of the SUT. |
| Defect | A deviation between the expected result and the actual result during testing, indicating an issue or flaw in the SUT. |
| Priority Levels | The urgency of executing a test case or fixing a defect. Common levels include High, Medium, and Low. |
| Defect Severity | The impact level of a defect on the system, classified as Critical, Major, Minor, or Trivial. |
| SUT | System Under Test: Refers to the Udemy sign-up process being evaluated in this project. |
| Validation | The process of ensuring the SUT meets its functional and non-functional requirements, such as input validation and error handling. |
| Browser Compatibility | The ability of the Udemy sign-up process to function consistently across different web browsers, including Chrome, Firefox, Safari, and Edge. |
| Redirection | The process of automatically navigating the user to a specific page based on certain conditions, such as successful sign-up or error handling. |
| Error Message | A message displayed to the user when an issue occurs during the sign-up process, such as invalid input or a missing required field. |
| Password Masking | A security feature that hides the characters entered in a password field, typically using asterisks (\*) or dots (•). |
| Real-Time Validation | A dynamic feedback mechanism where user inputs are checked and validated as they are typed, providing immediate guidance. |
| HTTPS | HyperText Transfer Protocol Secure: A protocol used for secure communication over the internet, ensuring data encryption. |
| Secure Data Transmission | The process of transferring data between the client and server in an encrypted format to prevent unauthorized access or interception. |
| Sensitive Data | Any user information that must be protected, such as passwords, email addresses, or personally identifiable information. |
| Session Termination | The secure ending of a user's session to prevent unauthorized access to the system. |
| Test Environment | The hardware, software, network, and tools required to execute test cases effectively and simulate real-world conditions. |
| Bug/Defect Log | A document or tool used to record all identified defects, including their descriptions, severity, and resolution status. |
| Exploratory Testing | An informal testing approach where testers actively explore the system to identify defects that may not be captured by predefined test cases. |
| Cross-Browser Testing | The process of testing the functionality and appearance of a web application across different web browsers. |
| Regression Testing | Testing conducted to ensure that recent changes or fixes have not negatively affected existing functionality. |
| Performance Testing | Testing performed to evaluate the system's responsiveness, stability, and scalability under specific load conditions. |
| TC | Test Case: A unique identifier for each test case created for this project. |
| UD | Udemy: Refers to the online learning platform whose sign-up process is being tested. |

# TEST ITEMS

The following features of the Udemy sign-up process will be tested:

1. **Input Fields**
   * Email address field (including format validation).
   * Password field (including strength requirements).
   * Name field (first name and last name).
2. **Sign-Up Button**
   * Functionality of the "Sign Up" button for submitting the form.
3. **Error Messages**
   * Display and accuracy of error messages for invalid inputs, such as:
     + Incorrect email format.
     + Missing required fields.
     + Weak or invalid passwords.
4. **Validation Checks**
   * Duplication check for email addresses.
   * Real-time feedback for required fields.
5. **Page Redirection**
   * Successful redirection to the welcome page after valid sign-up.
6. **Browser Compatibility**
   * Testing the sign-up process on different web browsers (Chrome, Firefox, Safari, Edge).

# FEATURES TO BE TESTED

The following features and their combinations will be tested as part of the Udemy sign-up process. Each feature is associated with specific Test Design Specifications (TDS) to ensure thorough coverage.

## Feature 1: Input Fields

* Validation and functionality of the Full Name field:
  + Ensures the field accepts valid input (letters only, with or without spaces).
  + Verifies that the field cannot be left empty.
* Validation and functionality of the Email field:
  + Ensures correct format (user@example.com).
  + Verifies duplication check for already registered email addresses.
  + Ensures the field cannot be left empty.
* Validation and functionality of the Password field:
  + Checks for strength requirements (minimum length, inclusion of uppercase letters, numbers, or symbols).
  + Ensures the field cannot be left empty.

## Feature 2: Sign-Up Button

* Ensures that clicking the "Sign Up" button submits the form with valid input and skips to next step.
* Verifies that clicking the button without completing required fields triggers error messages.

## Feature 3: Error Messages

* Checks the display and accuracy of error messages for invalid input in each field.
* Verifies that error messages are clear and relevant to error they represent.

## Feature 4: Validation Checks

* Ensures real-time feedback for required fields (validation while typing).
* Verifies the duplication check for existing (already registered by another account) email addresses.

## Feature 5: Page Redirection

* Confirms redirection to a welcome page upon successful registration.
* Ensures no redirection occurs for incomplete or invalid form submissions.

## Feature 6: Browser Compability

* Tests the sign-up process across different web browsers, including Chrome, Firefox, Safari, and Edge, to verify consistent functionality.

# FEATURES NOT TO BE TESTED:

The following features and combinations of features will not be included in the scope of this test plan due to their dependency on external systems, time constraints, or irrelevance to the user-facing sign-up process:

* Backend Validation and Security
* Server-side data validation and processing
* Database operations and storage
* Server-side encryption mechanisms
* Authentication and authorization logic
* API endpoint security testing
* Server configuration and infrastructure security
* Backend performance testing
* Database security testing
* Integration with External Systems
* Integration with email servers for sending confirmation emails.
* Rationale: The testing scope is limited to validating the user interface and does not include third-party system interactions.
* Load and Performance Testing
* Stress testing the sign-up process under heavy traffic conditions.
* Rationale: Performance testing requires specialized tools and is not part of the functional testing focus of this test plan.
* Mobile Responsiveness
* Testing the sign-up process on mobile devices or tablets.
* Rationale: The current scope is limited to desktop web browsers. Mobile testing may be conducted as part of a separate test plan.
* Localization and Internationalization
* Testing the sign-up process in languages other than English.
* Rationale: The scope of this test plan is limited to the English version of the sign-up form.

# APPROACH

The testing strategy for the Udemy sign-up process will involve a combination of manual functional, compatibility, and usability testing to ensure the system meets its intended requirements. A manual and black box approach will be conducted through the testing process. The testing approach includes:

* **Functional Testing**
  + Verify that all form elements, such as input fields and buttons, work as expected.
  + Ensure that validations (email format, password strength) are correctly implemented.
  + Test error messages for clarity and accuracy when invalid inputs are provided.
* **Security Testing (Client-Side only)**
  + Conduct basic checks to ensure sensitive data, such as passwords, is handled securely at the front-end level (e.g., no visible data leakage in the browser console).
* **Compatibility Testing**
  + Test the sign-up process across different web browsers, including Chrome, Firefox, Safari, and Edge, to confirm consistent functionality and UI display.
* **Test Case Execution**
  + Execute predefined test cases to validate each feature systematically.
  + Log actual results and compare them to expected outcomes to determine pass/fail status.
* **Defect Reporting**
  + Document any defects encountered during the testing process, including detailed steps to reproduce, and assign priority levels.
* **Environment Setup**
  + Use a desktop environment with stable internet access for testing.
  + Test on updated versions of the target web browsers to ensure compatibility.
* **Testing Scope Control**
  + Focus solely on the user interface and client-side functionality of the sign-up process, excluding backend systems and external integration.

# ITEM PASS/FAIL CRITERIA

The following criteria will determine whether each test case passes or fails:

1. **Pass Criteria**
   * The feature being tested behaves as expected and meets the requirements outlined in the test plan.
   * All input validations (email format, password strength) work correctly, and error messages are displayed as intended for invalid inputs.
   * The "Sign Up" button functions properly by submitting the form with valid inputs and redirecting the user to the correct page.
   * No unhandled exceptions or crashes occur during the testing process.
   * The functionality is consistent across all supported browsers (Chrome, Firefox, Safari, Edge).
2. **Fail Criteria**
   * The feature being tested does not behave as expected or deviates from the requirements.
   * Input validations fail to detect incorrect data or produce incorrect error messages.
   * The "Sign Up" button does not submit the form, or it submits it with invalid inputs.
   * Redirection does not occur, or the user is redirected to an incorrect page after successful form submission.
   * Significant inconsistencies or malfunctions are observed across supported browsers.
   * Any defect that impacts the usability, security, or functionality of the sign-up process is identified.

By adhering to these criteria, each test case will be evaluated objectively to ensure the overall quality of the Udemy sign-up process.

# SUSPENSION CRITERIA AND RESUMPTION

## **Suspension Criteria**

Testing activities will be temporarily suspended under the following conditions:

1. **System Unavailability**:
   * The Udemy sign-up page becomes inaccessible due to server downtime or maintenance.
2. **Hardware or Network Issues**:
   * The testing environment is compromised due to hardware failures, unstable internet connectivity, or power outages.
3. **Critical Defects Identified**:
   * Critical defects are discovered during testing that prevent further test execution, such as the sign-up form not loading or the "Sign Up" button being non-functional.
4. **External Dependencies**:
   * Required resources ( test environment, tools) are not available or functioning properly.

## **Resumption Criteria**

Testing activities will resume under the following conditions:

1. **Resolution of Issues**:
   * The root causes of the suspension (server downtime, hardware failures) have been resolved, and the system is functional again.
2. **Critical Defects Fixed**:
   * Critical defects that halted testing have been resolved and verified as fixed.
3. **Environment Readiness**:
   * All testing resources, tools, and the test environment are restored and operational.

## **Repeatable Testing Activities**

* Any incomplete test cases or activities at the time of suspension will be re-executed from the beginning to ensure consistency and accuracy of results.

# TEST DELIVERABLES

The following deliverables will be produced as part of this test plan for the Udemy sign-up process:

1. **Test Cases**
   * A detailed description of each test case, including test inputs, execution steps, expected results, and actual outcomes.
2. **Defect Logs**
   * A log of any defects encountered during test execution, including a description, severity, and steps to reproduce the issue.
3. **Test Summary Report**
   * A concise summary of the testing results, including:
     + Total number of test cases executed
     + Number of test cases passed, failed, or blocked
     + Observations and recommendations based on the test outcomes

# TESTING TASKS

## **Preparation Tasks**

1.1. **Understand Requirements**

* Review the functionality and expected behavior of the Udemy sign-up process.
* Identify features to be tested based on the scope of the test plan.

1.2. **Setup Test Environment**

* Prepare desktop systems with stable internet connectivity.
* Install and configure required browsers (Chrome, Firefox, Safari, Edge).
* Verify accessibility of the Udemy sign-up page.

1.3. **Design Test Cases**

* Define test cases for key scenarios, including:
  + Valid inputs (correctly formatted email and strong passwords).
  + Invalid inputs (missing fields, incorrect email format).
  + Duplication checks for email addresses.
* Create test cases that include preconditions, input data, execution steps, and expected results.

## **Execution Tasks**

2.1. **Execute Test Cases**

* Perform tests manually according to the designed test cases.
* Record actual results for each test case and compare them to expected results.

2.2. **Log Defects**

* Document any defects encountered during testing, including:
  + Steps to reproduce the defect.
  + Defect severity (e.g., critical, minor).
  + Observations regarding the defect's impact on functionality.

## **Post-Execution Tasks**

3.1. **Consolidate Results**

* Summarize test execution outcomes, including pass/fail status of each test case.
* Analyze defect trends and their severity.

3.2. **Prepare Deliverables**

* Compile test cases, defect logs, and the test summary report as part of the Test Plan Document.

By breaking down the tasks into these phases, the testing process remains structured and manageable, ensuring the objectives of the test plan are met efficiently.

# ENVIRONMENTAL NEEDS

The following environmental requirements are essential to ensure the smooth execution of the Udemy sign-up process testing:

* **Hardware Requirements**
  + - **Desktop/Laptop Computers:**
      * Minimum specifications:
        + Processor: Intel i3 or equivalent.
        + RAM: 4 GB or higher.
        + Storage: 20 GB free disk space.
      * Operating Systems: Windows 10/11, macOS 11.0 or higher.
    - **Network Connectivity:**
      * Stable internet connection with a minimum speed of 10 Mbps.
* **Software Requirements:**
  + - **Browsers:**
      * Google Chrome (latest stable version).
      * Mozilla Firefox (latest stable version).
      * Safari (latest stable version for macOS).
      * Microsoft Edge (latest stable version).
* **Testing Support Tools:**
  + - Browser developer tools (console and network debugging).
    - Screen recording software for capturing issues during test execution.
    - Documentation tools (Microsoft Word)
* **Additional Needs:**
  + - Test accounts for Udemy with varying levels of access.
    - Test data including:
      * Valid and invalid email addresses
      * Passwords of different strengths
      * Access to relevant project documentation and team approvals.

# RESPONSIBILITIES

To ensure an organized and efficient testing process, the following roles and responsibilities have been assigned:

## Test Management

* **Test Lead:**
  + **Responsibilities:**
    - Oversee the entire testing process.
    - Ensure adherence to the IEEE 829-2008 standard.
    - Approve test cases, test plans, and execution schedules.
    - Monitor test progress and address any roadblocks.
    - Review and validate test summary reports.
  + **Assigned People:**
    - **İlke Durmaz**
    - **Duru Karacan**
    - **Dilara Çağla Banko**

## Test Execution

* **Testers:**
  + **Responsibilities:**
    - Execute test cases according to the approved test plan.
    - Record actual results and compare them with expected outcomes.
    - Identify and log any defects encountered during the testing process.
    - Provide feedback on system usability and re-test resolved defects.
  + **Assigned People:**
    - **Duru Karacan**
    - **Dilara Çağla Banko**
    - **İlke Durmaz**

## Documentation

* **Documentation Specialist:**
  + **Responsibilities:**
    - Compile and organize all test artifacts, including the test plan, test cases, defect logs, and summary reports.
    - Maintain version control of all documents and ensure accessibility to relevant stakeholders.
    - Prepare and finalize the test summary report.
  + **Assigned Persons:**
    - **Dilara Çağla Banko**
    - **İlke Durmaz**
    - **Duru Karacan**

## Approval

* **Approval Authority:**
  + **Responsibilities:**
    - Review and approve the finalized test plan, test cases, and test summary report.
    - Provide formal acceptance of the testing deliverables.
  + **Assigned Person:**
    - **Sevgi Koyuncu Tunç**

# STAFFING AND TRAINING NEEDS

To ensure the successful execution of the Udemy sign-up process testing, the required staffing and training needs are outlined below:

## Staffing Requirements

The team will consist of the following roles, with the corresponding skill levels and responsibilities:

|  |  |  |  |
| --- | --- | --- | --- |
| **Role** | **Number of Staff** | **Skill Level** | **Responsibilities** |
| Test Lead | 3 | Intermediate | Manage overall testing process, monitor progress, and report outcomes. |
| Testers | 3 | Intermediate | Execute test cases and log defects. |
| Documentation Specialist | 3 | Intermediate | Document test plans, results, and defect logs. |
| Approval Authority | 1 | Senior | Review and approve the test report. |

## Required Skills

The following skills are necessary for each role:

* **Test Lead:**
  + Strong understanding of the IEEE 829-2008 testing standard.
  + Experience in managing functional and compatibility testing projects.
* **Testers:**
  + Familiarity with manual testing tools and processes.
  + Basic understanding of browser compatibility testing.
* **Documentation Specialist:**
  + Skilled in creating clear and concise documentation.
  + Knowledge of version control for documentation.
* **Approval Authority:**
  + Review and approve the test plan, test cases, and test summary reports.

## Training Needs

* An introduction to IEEE 829-2008 test documentation standards.
* Guidance on logging defects and writing clear test cases.

# SCHEDULE

The schedule for the Udemy sign-up process testing project is designed to ensure timely and efficient completion of all testing tasks. The timeline includes key milestones, estimated durations for each task, and dependencies to maintain proper workflow.

## Test Milestones

The following are the major milestones for the project:

|  |  |  |
| --- | --- | --- |
| **Milestone** | **Description** | **Estimated Completion Date** |
| Test Plan Preparation | Creation and finalization of the test plan, including scope and objectives. | Dec 19, 2024 |
| Test Case Design | Development of detailed test cases covering all defined features. | Dec 24, 2024 |
| Test Environment Setup | Configuration of the necessary tools, software, and hardware. | Dec 26, 2024 |
| Test Execution (Phase 1) | Execution of initial test cases to identify major defects. | Dec 31, 2024 |
| Defect Logging and Fixing | Logging defects and retesting resolved issues. | Jan 2, 2025 |
| Documentation and Reporting | Compilation of test results and preparation of the test summary report. | Jan 2, 2025 |
| Final Review | Review and finalization of all deliverables for submission. | Jan 3, 2025 |

## Testing Task Breakdown and Timeline

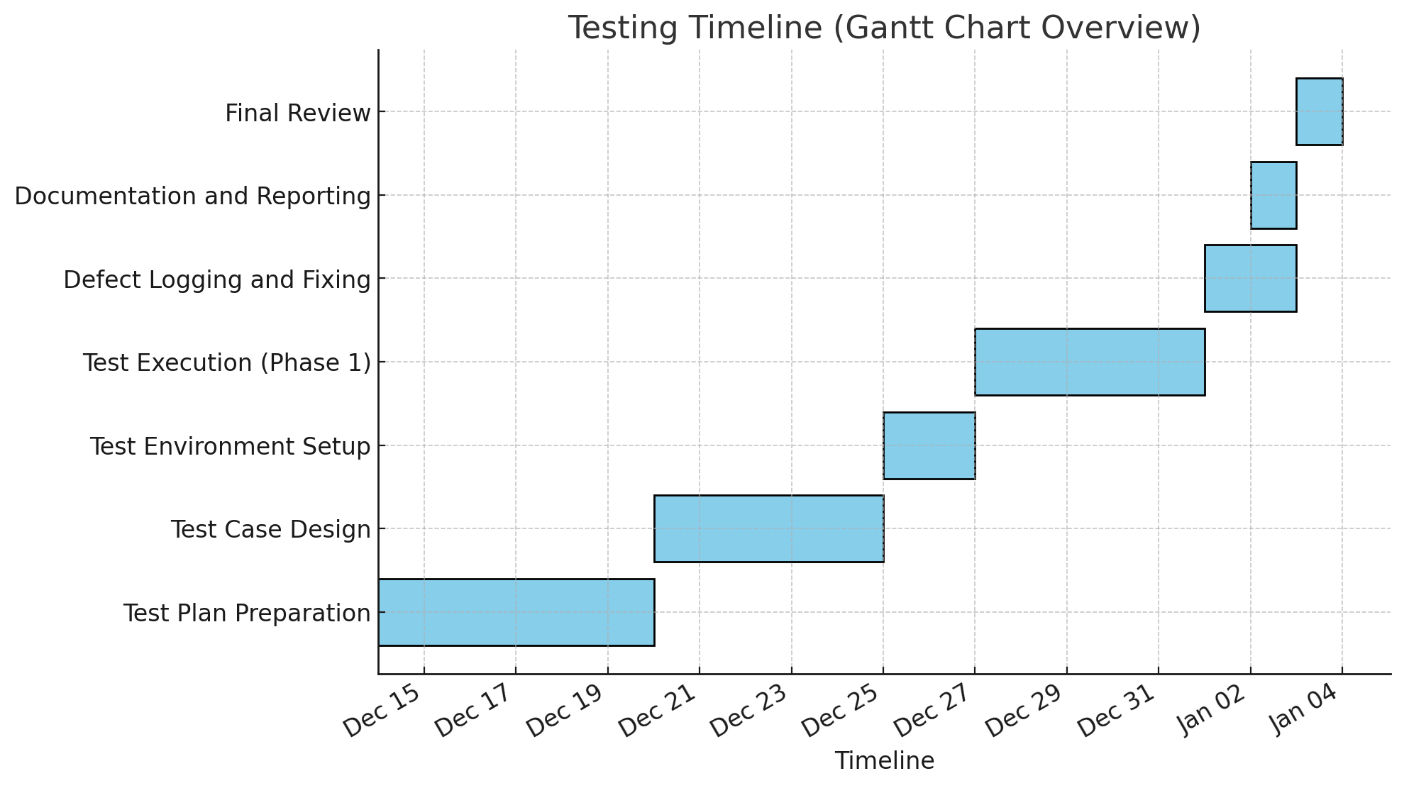
The tasks are broken down into smaller steps with estimated durations for each:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task** | **Duration** | **Dependencies** | **Start Date** | **End Date** |
| Test Plan Preparation | 5 days | None | Dec 14, 2024 | Dec 19, 2024 |
| Test Case Design | 5 days | Completion of Test Plan | Dec 20, 2024 | Dec 24, 2024 |
| Test Environment Setup | 2 days | Completion of Test Plan | Dec 25, 2024 | Dec 26, 2024 |
| Test Execution (Phase 1) | 5 days | Test Environment Setup | Dec 27, 2024 | Dec 31, 2024 |
| Defect Logging and Fixing | 2 days | Test Execution (Phase 1) | Jan 1, 2025 | Jan 2, 2025 |
| Documentation and Reporting | 1 day | Defect Logging and Fixing | Jan 2, 2025 | Jan 2, 2025 |
| Final Review | 1 day | Documentation and Reporting | Jan 3, 2025 | Jan |
| Task | Duration | Dependencies | Start Date | End Date |
| Test Plan Preparation | 5 days | None | Dec 14, 2024 | Dec 19, 2024 |
| Test Case Design | 5 days | Completion of Test Plan | Dec 20, 2024 | Dec 24, 2024 |

## Dependencies

* **Test Case Design:** Dependent on the completion and approval of the test plan to ensure alignment with scope and objectives.
* **Test Environment Setup:** Requires the finalized test plan to configure necessary tools and resources properly.
* **Test Execution (Phase 1):** Dependent on the successful setup of the test environment to ensure all tools and systems are functional.
* **Defect Logging and Fixing:** Can only begin after executing test cases in Phase 1 and identifying defects.
* **Documentation and Reporting:** Requires the completion of defect logging and fixing to compile accurate and comprehensive test results.
* **Final Review:** Dependent on the completion of all documentation and reporting to finalize deliverables for submission.

## Timeline (Gantt Chart Overview)



# RISKS AND CONTINGENCIES

The following section identifies potential risks that could impact the testing process and provides contingency plans to mitigate these risks.

## High-Risk Assumptions and Their Contingencies

|  |  |  |  |
| --- | --- | --- | --- |
| **Risk** | **Impact** | **Likelihood** | **Contingency Plan** |
| Network Failures | Delays in test execution | Medium | Use a backup internet connection or mobile hotspot. |
| Email Validation Issues | Incorrect defect logging and missed errors | High | Test email validation scenarios early and use diverse test data (valid/invalid/duplicates). |
| Browser Compatibility Problems | Inconsistent user experience across browsers | High | Conduct compatibility tests on all major browsers (Chrome, Firefox, Safari, Edge). |
| Limited Testing Time | Inability to cover all test scenarios | Medium | Prioritize high-risk test cases and schedule buffer time for unexpected delays. |
| Defect Fix Delays | Incomplete re-testing | Medium | Focus on critical defect fixes and document unresolved issues clearly in reports. |

## General Contingency Measures

* Conduct regular check-ins to monitor progress and address issues early.
* Ensure access to alternative tools or systems in case of technical failures.
* Allocate additional time for high-priority tests if delays occur.

# REFERENCES

1. Dr. Ican Doit, “METU-ONLINE” Specifications”, May 3, 2002

# APPROVALS

The following individuals are responsible for reviewing and approving the test plan, ensuring it meets the project requirements and adheres to the IEEE 829-2008 standard. Approval is mandatory before proceeding with the execution phase.

|  |  |  |
| --- | --- | --- |
| **Name** | **Role** | **Responsibility** |
| Sevgi Koyuncu Tunç | Instructor | Final approval of the test plan, test cases, and summary reports. |
| İlke Durmaz | Test Lead | Ensures the plan meets the defined objectives and standards. |
| Duru Karacan | Tester | Confirms test case alignment with test objectives. |
| Dilara Çağla Banko | Documentation Specialist | Validates documentation accuracy and completeness. |

# TEST DESIGN SPECIFICATIONS

## Feature 1: Input Fields

### Subfeatures to be tested

1. **Full Name Field:**

* Accepts valid input (letters only, with or without spaces).
* Does not accept invalid characters (numbers, symbols).
* Cannot be left empty (mandatory field validation).

1. **Email Field:**

* Accepts valid email formats (e.g., user@example.com).
* Detects invalid email formats (e.g., missing "@", missing domain).
* Validates duplication of already registered email addresses.
* Cannot be left empty (mandatory field validation).

1. **Password Field:**

* Ensures password strength requirements:
  + Minimum length (8 characters).
  + Inclusion of uppercase letters, numbers, and special characters.
* Does not allow empty submissions (mandatory field validation).

### Subfeatures not to be tested

1. **Backend Validation of Inputs:**

* Rationale: Focus is on front-end validation, and backend validation falls outside the scope.

1. **Password Encryption or Storage:**

* Rationale: Testing is limited to user-facing features, not server-side security implementations.

1. **Input Field Styling:**

* Rationale: Visual aspects (e.g., font size, color) are not part of functional testing.

### Approach

* **Refinements to Test Plan:**
  + Focus on black-box testing for input fields.
  + Combine functional testing with boundary value analysis to validate edge cases (e.g., maximum input length, empty fields).
* **Deviations:**
  + Browser-specific validations (if differing behaviors are observed) will be logged but not resolved.

### Item Pass/Fail Criteria

* **Pass:**
  + The input fields accept valid inputs and reject invalid ones.
  + Relevant error messages are displayed for invalid or empty inputs.
  + All input validations are consistent across supported browsers.
* **Fail:**
  + Invalid inputs are accepted without displaying error messages.
  + The system crashes or behaves unexpectedly during field validation.

### Environmental Needs

* **Test Data:**
  + Valid full name examples (e.g., "Dilara Çağla Banko").
  + Valid and invalid email formats.
  + Password examples meeting and failing strength requirements.
* **Tools:**
  + Browser developer tools for debugging validation errors.
  + Testing environment configured with stable internet and supported browsers.

### Test Cases

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| |  | | --- | | TC001 | | |  |  | | --- | --- | |  | Full Name Field Validation | | |  |  | | --- | --- | | High |  | | |  | | --- | | Verify the field accepts valid full names and rejects invalid inputs. | |
| |  | | --- | | TC002 | | |  |  | | --- | --- | |  | Email Format Validation | | |  |  | | --- | --- | | High |  | | |  | | --- | | Ensure only valid email formats are accepted; invalid ones trigger errors. | |
| |  | | --- | | TC003 | | |  |  | | --- | --- | |  | Password Strength Validation | | |  |  | | --- | --- | | High |  | | |  | | --- | | Validate that passwords meet strength criteria (length, characters). | |
| |  | | --- | | TC004 | | |  |  | | --- | --- | |  | Email Duplication Check | | |  |  | | --- | --- | | High |  | | |  | | --- | | Confirm duplication check for already registered email addresses. | |
| |  | | --- | | TC005 | | |  | | --- | | Sign Up Button Verification | | |  |  | | --- | --- | | High |  | | |  | | --- | | Verify the "Sign Up" button is disabled until all mandatory fields are filled. | |

## Feature 2: Sign-Up Button

### Subfeatures to be tested

1. **Form Submission:**
   * Successful submission when all input fields contain valid data.
   * Prevention of submission when required fields are invalid or empty.
2. **Error Handling:**
   * Display of appropriate error messages when submission fails due to invalid or missing inputs.
3. **Loading Indicator:**
   * If applicable, verify that a loading indicator is displayed during submission.
4. **Redirection:**
   * Ensure proper redirection to the "Welcome" page after a successful submission.

### Subfeatures not to be tested

1. **Server-Side Form Processing:**

* Rationale: Focus is on client-side functionality; backend processing falls outside the test scope.

1. **UI Styling of the Button:**

* Rationale: Visual styling (e.g., button size, color) is not part of functional testing.

1. **Timeout Handling:**
   * Rationale: Handling of server-side timeouts is not included in front-end-focused testing.

### Approach

1. **Refinements to Test Plan:**
   * Black-box testing will focus on how the button interacts with the form and its validations.
   * Functional testing will be supplemented with exploratory testing to identify edge cases.
2. **Deviations:**
   * Any unexpected behaviors related to backend server responses will be logged for informational purposes but not tested further.

### Item Pass/Fail Criteria

* **Pass:**
  + The "Sign Up" button submits the form successfully with valid data.
  + The button is disabled until all required fields are filled with valid inputs (if implemented).
  + Error messages are displayed accurately for invalid submissions.
  + Successful submission redirects the user to the correct page.
* **Fail:**
  + The button submits the form with invalid or incomplete data.
  + No error messages are displayed for invalid submissions.
  + The button does not function as intended (e.g., no response on click).

### Environmental Needs

* **Test Data:**
  + - Fully filled forms with valid data for successful submissions.
    - Partially filled or invalid forms for testing error handling.
* **Tools:**
  + - Browser developer tools for monitoring form submissions and redirection.
    - Logging tools (if available) to track front-end submission requests.
* **Environment:**
  + - Stable internet connection and updated browsers to ensure reliable testing.

### Test Cases

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| |  | | --- | | TC006 | | |  |  | | --- | --- | |  | Successful Form Submission | | |  |  | | --- | --- | | High |  | | |  | | --- | | Verify the form submits successfully with valid inputs and redirects to the Welcome page. | |
| |  | | --- | | TC007 | | |  |  | | --- | --- | |  | Incomplete Form Submission | | |  | | --- | | High | | |  | | --- | | Ensure the button does not submit the form if required fields are empty. | |
| |  | | --- | | TC008 | | |  |  | | --- | --- | |  | Invalid Input Handling | | |  |  | | --- | --- | | High |  | | |  | | --- | | Validate that appropriate error messages are displayed for invalid inputs. | |
| |  | | --- | | TC009 | | |  |  | | --- | --- | |  | Loading Indicator Display | | |  | | --- | | Medium | | |  | | --- | | Confirm a loading indicator is shown while the form is being submitted (if applicable). | |
| |  | | --- | | TC010 | | |  |  | | --- | --- | |  | Redirection Validation | | |  |  | | --- | --- | | Medium | . | | |  | | --- | | Ensure the user is redirected to the correct page upon successful submission. | |

## Feature 3: Error Messages

### Subfeatures to be tested

1. **Field-Specific Error Messages:**

* Ensure error messages are displayed when required fields are left empty.
* Verify field-specific error messages for invalid inputs (e.g., incorrect email format, weak passwords).

1. **Clear and Informative Messaging:**

* Validate that error messages are easy to understand and relevant to the error encountered.
* Ensure no technical jargon is used in error messages.

1. **Real-Time Validation Messages:**

* Confirm real-time feedback is provided as the user types (e.g., password strength indicators, email format validation).

1. **Multiple Error Message Handling:**

* Verify that multiple error messages are displayed simultaneously if multiple fields contain invalid data.

### Subfeatures not to be tested

1. **Styling of Error Messages:**
   * Rationale: Visual aspects (e.g., font size, color) are not part of functional testing.
2. **Error Messages for Backend Issues:**
   * Rationale: Messages triggered by server-side validation are not within the scope of client-side testing.

### Approach

* **Refinements to Test Plan:**
  + Black-box testing to verify error messages are triggered under appropriate conditions.
  + Usability testing to assess clarity and helpfulness of the messages.
* **Deviations:**
  + Messages related to backend issues will be logged as informational but not tested directly.

### Item Pass/Fail Criteria

* **Pass:**
  + Error messages are displayed under the correct conditions (e.g., empty fields, invalid inputs).
  + Messages are clear, concise, and provide actionable guidance to the user.
  + Multiple error messages are displayed without overlap or confusion.
  + Real-time validation feedback updates dynamically based on user input.
* **Fail:**
  + Error messages are missing, unclear, or incorrect.
  + Messages are displayed for valid inputs or fail to appear for invalid ones.
  + Real-time feedback does not function as intended.

### Environmental Needs

* **Test Data:**
  + Test cases involving empty fields, invalid email formats, and weak passwords.
  + Multiple invalid input scenarios to test simultaneous error handling.
* **Tools:**
  + Browser developer tools to inspect the presence and content of error messages.
  + Screen recording software for capturing real-time validation feedback.
* **Environment:**
  + Configured test environment with supported browsers and reliable internet connectivity.

### Test Cases

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| TC011 | Empty Field Error Message | High | Verify error messages appear when required fields are left empty. |
| TC012 | Invalid Email Format Message | High | Validate error messages for invalid email formats. |
| TC013 | Weak Password Error Message | High | Ensure the error message is shown for passwords failing strength requirements. |
| TC014 | Multiple Errors Handling | Medium | Confirm multiple error messages are displayed for multiple invalid fields. |
| TC015 | Real-Time Feedback | Medium | Validate that real-time feedback is updated dynamically as the user types. |

## Feature 4: Page Redirection

### Subfeatures to be tested

1. **Successful Registration Redirection:**

* Ensure the user is redirected to the "Welcome" page after completing the sign-up process with valid data.

1. **Invalid Registration Handling:**
   * Verify that the user remains on the sign-up page when the input data is invalid or incomplete.
2. **Error Page Handling:**
   * Ensure the user is redirected to an appropriate error page when a critical system failure occurs.
3. **Redirection Timing:**
   * Verify that redirection occurs without significant delays (within acceptable load time limits).

### Subfeatures not to be tested

1. **Backend Page Redirection Logic:**
   * Rationale: Backend-specific redirects are outside the scope of front-end testing.
2. **Redirection for Non-Sign-Up Pages:**
   * Rationale: This test plan is focused only on the sign-up process.

### Approach

* **Refinements to Test Plan:**
  + Perform black-box testing for redirection behaviors triggered by user actions.
  + Include boundary testing for conditions like very slow inputs or simultaneous submissions.
* **Deviations:**
  + External factors like network speed will not be accounted for unless they directly impact redirection within the controlled test environment.

### Item Pass/Fail Criteria

* **Pass:**
  + The user is redirected to the "Welcome" page upon successful registration.
  + The user remains on the sign-up page when invalid inputs are provided, with error messages displayed.
  + Error pages are displayed when the system encounters critical issues.
  + Redirection occurs within the expected time frame (e.g., under 5 seconds).
* **Fail:**
  + Redirection does not occur or takes significantly longer than the expected time.
  + The user is redirected to an incorrect page after valid or invalid input.
  + Error pages fail to display when necessary.

### Environmental Needs

* **Test Data:**
  + Forms with valid and invalid input scenarios.
  + Mock configurations to simulate critical system errors.
* **Tools:**
  + Browser developer tools to monitor redirection behaviors and network requests.
  + Performance testing tools to measure redirection timing.
* **Environment:**
  + Stable and consistent test environment with supported browsers and network connectivity.

### Test Cases

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| TC016 | Successful Redirection | High | Verify redirection to the "Welcome" page upon successful sign-up. |
| TC017 | Invalid Input Handling | High | Ensure the user remains on the sign-up page when inputs are invalid. |
| TC018 | Critical Error Handling | Medium | Confirm redirection to an error page when a system failure occurs. |
| TC019 | Redirection Timing | Medium | Validate that all redirections occur within acceptable time limits. |
| TC020 | Edge Case Redirections | Low | Test redirection behavior under edge cases like slow submissions. |

## Feature 5: Browser Compatibility

### Subfeatures to be tested

1. **Form Functionality Across Browsers:**

* Validate the form's functionality (input fields, buttons, validations) in supported browsers.

1. **Error Message Display:**

* Ensure error messages are displayed correctly in each browser for invalid inputs.

1. **Redirection Consistency:**

* Verify that redirections (e.g., to the "Welcome" page or error page) function as intended across browsers.

1. **UI and Layout:**

* Confirm that the layout and alignment of elements (e.g., fields, buttons, error messages) remain consistent.

1. **JavaScript Execution:**

* Ensure client-side scripts (e.g., real-time validations, password strength indicators) execute without issues.

### Subfeatures not to be tested

1. **Browser-Specific Security Features:**
   * Rationale: Security settings and behaviors vary between browsers and are outside the scope of functional testing.
2. **Deprecated Browser Versions:**

* Rationale: Testing is limited to the latest stable versions of supported browsers.

### Approach

* **Refinements to Test Plan:**
  + Conduct functional and UI testing in each browser using predefined test cases.
  + Include exploratory testing to identify unique browser-specific behaviors.
* **Deviations:**
  + Testing will focus on supported browsers only (Chrome, Firefox, Safari, Edge).

### Item Pass/Fail Criteria

* **Pass:**
  + All input fields, buttons, and validations work consistently across all supported browsers.
  + Error messages and redirections function as expected in each browser.
  + Layout and alignment are visually consistent across browsers.
* **Fail:**
  + Any browser-specific issues that affect form functionality, validation, or user experience.
  + UI inconsistencies or misalignments impacting usability in specific browsers.

### Environmental Needs

* **Test Data:**
  + Valid and invalid input scenarios to test consistency across browsers.
* **Tools:**
  + Latest versions of Chrome, Firefox, Safari, and Edge.
  + BrowserStack or similar cross-browser testing tools for expanded coverage.
* **Environment:**
  + Stable internet connection and systems configured for multi-browser testing.

### Test Cases

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| TC021 | Form Functionality in Chrome | High | Validate form inputs, buttons, and validations in Chrome. |
| TC022 | Error Messages in Firefox | High | Ensure error messages are displayed correctly in Firefox. |
| TC023 | Redirection in Safari | Medium | Confirm successful redirection after valid sign-up in Safari. |
| TC024 | Layout Consistency in Edge | Medium | Verify layout and alignment consistency in Edge. |
| TC025 | JavaScript Execution Across Browsers | High | Ensure real-time validation scripts run without errors in all browsers. |

## Feature 6: Security and Privacy

### Subfeatures to be tested

1. **Password Masking:**

* Verify that the password input field masks user entries (e.g., replacing characters with dots or asterisks).

1. **Secure Data Transmission:**

* Ensure data entered in the form is transmitted securely using HTTPS.

1. **Form Validation Security:**

* Check that no sensitive information (e.g., passwords) is exposed in browser developer tools or network logs.

1. **Session Security:**

* Confirm that user sessions are terminated securely after the sign-up process (if applicable).

1. **Error Message Privacy:**

* Verify that error messages do not expose sensitive system details.

### Subfeatures not to be tested

1. **Backend Security Measures:**
   * Server-side input validation
   * Database security
   * Server-side encryption
   * Authentication mechanisms
   * Session management on server
   * API security
   * Server configuration
   * Backend logging and monitoring
2. Network Security:

* Server firewall configuration
* Network layer security
* Load balancer security
* Database connection security

1. Infrastructure Security:

* Server hardening
* Cloud security configurations
* Container security
* Deployment security

### Approach

* **Refinements to Test Plan:**
  + Conduct manual testing to verify that sensitive data is handled securely on the front end.
  + Use automated tools to inspect network traffic and ensure secure data transmission.
* **Deviations:**
  + Backend-specific security measures and advanced penetration testing are not covered.

### Item Pass/Fail Criteria

* **Pass:**
  + Passwords are masked in the input field during entry.
  + All form data is transmitted securely over HTTPS.
  + No sensitive data is visible in browser developer tools or logs.
  + Error messages do not reveal technical details about the system.
* **Fail:**
  + Passwords are displayed in plain text while being entered.
  + Data is transmitted over unsecured connections (e.g., HTTP).
  + Sensitive data is accessible through browser developer tools.
  + Error messages expose internal system details.

### Environmental Needs

* **Test Data:**
  + Sample passwords and form inputs to verify data masking and secure transmission.
* **Tools:**
  + Browser developer tools to inspect network activity and console logs.
  + Security testing tools (e.g., OWASP ZAP, Burp Suite) for validating HTTPS and data privacy.
* **Environment:**
  + A test environment with HTTPS enabled and no access to production databases.

### Test Cases

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| TC026 | Password Masking | High | Verify that password characters are properly masked in the input field |
| TC027 | HTTPS Verification | High | Verify that the form submission URL uses HTTPS protocol. |
| TC028 | Error Message | Medium | Verify that client-side error messages don't expose technical details. |
| TC029 | Browser Security | High | Verify no sensitive data is exposed in browser console/network tab. |
| TC030 | Form Validation | High | Verify client-side validation prevents submission of malicious inputs. |

# APPENDICES

## Appendix 1: Test Execution Results

### Execution Result of TC001

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC001 |
| Description | Verify the Full Name field accepts valid input and rejects invalid input. |
| Objective | Ensure the Full Name field correctly validates user input for allowed characters and move to next input field. |
| Precondition | The Udemy sign-up page is accessible, and the Full Name input field is visible. |
| Input Data | - Valid Input: Duru Karacan  - Invalid Input: Duru123! |
| Execution Steps | 1. Navigate to the Udemy sign-up page.  2. Enter Duru Karacan into the Full Name field.  3. Verify no error message appears.  4. Enter Duru123! into the Full Name field.  5. Move to the next field.  6. Verify an error message is displayed. |
| Expected Result | - For Duru Karacan: The input is accepted without errors.  - For Duru123!: An appropriate error message is displayed. |
| Actual Result | - For Duru Karacan: The input is accepted without errors.  - For Duru123!: The input is accepted without errors. |
| Postcondition | User is still in the sign-up page and moves to next input by clicking on e-mail field using cursor. |
| Priority Level | High |
| Status (Pass/Fail/Blocked) | Fail |
| Test Date | Dec 27, 2024 |
| Who Tested It? | İlke Durmaz |
| Remarks |  |

### Execution Result of TC002

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC002 |
| Description | Verify the Email field accepts valid input and rejects invalid input. |
| Objective | Ensure the Email field correctly validates user input for proper email format. |
| Precondition | The Udemy sign-up page is accessible, and the Email input field is visible. |
| Input Data | - Valid Input: testuser@example.com  - Invalid Input: testuser.com |
| Execution Steps | 1. Navigate to the Udemy sign-up page.  2. Enter a name “İlke Durmaz”  3. Enter testuser@example.com into the Email field.  4. Verify no error message appears.  5. Enter testuser.com into the Email field.  6. Click on “Sign Up” button.  7. Verify an error message is displayed. |
| Expected Result | - For testuser@example.com: The input is accepted without errors.  - For testuser.com: An appropriate error message is displayed. |
| Actual Result | - For testuser@example.com: The input is accepted without errors.  - For testuser.com: An appropriate error message is displayed.  “Lütfen e-posta adresine bir "@" işareti ekleyin. "testuser.com" adresinde "@" eksik.” |
| Postcondition | User is still in the sign-up page. |
| Priority Level | High |
| Status (Pass/Fail/Blocked) | Pass |
| Test Date | Dec 27, 2024 |
| Who Tested It? | İlke Durmaz |
| Remarks |  |

### Execution Result of TC003

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC003 |
| Description | Verify the Password field enforces security rules (e.g., minimum length, complexity). |
| Objective | Ensure the Password field validates input against security requirements. |
| Precondition | The Udemy sign-up page is accessible, and the Password input field is visible. An valid full name and e-mail is entered. |
| Input Data | - Valid Input: P@ssw0rd123  - Invalid Input: pass |
| Execution Steps | 1. Navigate to the Udemy sign-up page.  2.Enter a valid full name “İlke Durmaz” and a valid unregistered e-mail adress.  2. Enter P@ssw0rd123 into the Password field.  3. Verify no error message appears.  4. Enter pass into the Password field.  5. Verify an error message is displayed. |
| Expected Result | - For P@ssw0rd123: The input is accepted without errors.  - For pass: An appropriate error message is displayed. |
| Actual Result | - For P@ssw0rd123: The input is accepted without errors.  - For pass: An appropriate error message is displayed.  “Lütfen bu metni 6 karakter veya daha fazla olacak şekilde uzatın (şu anda 4 karakter kullanıyorsunuz).” |
| Postcondition | User is still in the sign-up page. |
| Priority Level | High |
| Status (Pass/Fail/Blocked) | Pass |
| Test Date | Dec 27, 2024 |
| Who Tested It? | İlke Durmaz |
| Remarks |  |

### Execution Result of TC004

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC004 |
| Description | Verify that attempting to sign up with an already registered email displays an error message. |
| Objective | Ensure the system prevents duplicate email registrations and displays appropriate feedback. |
| Precondition | The Udemy sign-up page is accessible, and the email registered@example.com is already in use. |
| Input Data | - Email: dilaracaglasarisu@hotmail.com |
| Execution Steps | 1. Navigate to the Udemy sign-up page.  2. Enter dilaracaglasarisu@hotmail.com into the Email field.  3. Fill in all other fields with valid inputs.  4. Click the "Sign Up" button.  5. Verify that an error message is displayed indicating the email is already registered. |
| Expected Result | An error message appears, stating: "This email is already registered. Please log in or use a different email.” |
| Actual Result | An error message appears, stating: "The email you entered is already in use. Please try logging in.” |
| Postcondition | User is still in the sign-up page. And can’t sign up with used e-mail. |
| Priority Level | High |
| Status (Pass/Fail/Blocked) | Pass |
| Test Date | Dec 27, 2024 |
| Who Tested It? | Dilara Çağla Banko |
| Remarks |  |

### Execution Result of TC005

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC005 |
| Description | Verify the "Sign Up" button is disabled until all mandatory fields are filled. |
| Objective | Ensure that the "Sign Up" button remains inactive until all required inputs are provided. |
| Precondition | The Udemy sign-up page is accessible, and no fields are pre-filled. |
| Input Data | - Valid inputs for all required fields: Name, Email, Password. |
| Execution Steps | 1. Navigate to the Udemy sign-up page.  2. Leave all fields empty and observe the "Sign Up" button.  3. Fill each field incrementally and check the state of the "Sign Up" button.  4. Ensure the button becomes active only after all mandatory fields are filled |
| Expected Result | - The "Sign Up" button is disabled when any required field is empty.  - The button becomes enabled only when all fields are correctly filled. |
| Actual Result | The sign up button is always enabled when all/some required fields are empty. |
| Postcondition | User is still in the sign-up page. |
| Priority Level | Medium |
| Status (Pass/Fail/Blocked) | Fail |
| Test Date | Dec 27, 2024 |
| Who Tested It? | Dilara Çağla Banko |
| Remarks |  |

### Execution Result of TC006

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC006 |
| Description | Verify the form submits successfully with valid inputs and redirects to the Welcome page. |
| Objective | Ensure the "Sign Up" button functions correctly with valid data. |
| Precondition | The Udemy sign-up page is accessible, and all required fields are filled with valid data. |
| Input Data | - Name: Dilara Çağla Banko  - Email: dcaglasarisu@gmail.com  - Password: P@ssword123 |
| Execution Steps | 1. Navigate to the Udemy sign-up page.  2. Enter valid data into all required fields.  3. Click the "Sign Up" button.  4. Verify the form submits successfully.  5. Check if the user is redirected to the Welcome page. |
| Expected Result | The form submits successfully, and the user is redirected to the Welcome page. |
| Actual Result | The form submits successfully, and the user is redirected to the Welcome page. |
| Postcondition | User stays logged-in in welcome page. |
| Priority Level | High |
| Status (Pass/Fail/Blocked) | Pass |
| Test Date | Dec 27, 2024 |
| Who Tested It? | Duru Karacan |
| Remarks |  |

### Execution Result of TC007

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC007 |
| Description | Ensure the button does not submit the form if required fields are empty. |
| Objective | Verify the "Sign Up" button remains inactive with incomplete form inputs. |
| Precondition | The Udemy sign-up page is accessible, and some required fields are empty. |
| Input Data | - Name: Ilke Durmaz  - Email: (empty)  - Password: P@ssword123 |
| Execution Steps | 1. Navigate to the Udemy sign-up page.  2. Enter incomplete data into the fields.  3. Attempt to click the "Sign Up" button.  4. Verify the form is not submitted. |
| Expected Result | The "Sign Up" button remains inactive, and the form does not submit. |
| Actual Result | The "Sign Up" button is active, and the form does not submit. |
| Postcondition | User is still in the sign-up page. |
| Priority Level | High |
| Status (Pass/Fail/Blocked) | Fail |
| Test Date | Dec 27, 2024 |
| Who Tested It? | İlke Durmaz |
| Remarks |  |

### Execution Result of TC008

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC008 |
| Description | Validate that appropriate error messages are displayed for invalid inputs. |
| Objective | Ensure the form provides clear feedback for invalid data inputs. |
| Precondition | The Udemy sign-up page is accessible, and invalid data is entered into required fields. |
| Input Data | - Name: Duru123  - Email: invalid\_email  - Password: pass |
| Execution Steps | 1. Navigate to the Udemy sign-up page.  2. Enter invalid data into required fields.  3. Click the "Sign Up" button.  4. Verify error messages are displayed for invalid fields. |
| Expected Result | Appropriate error messages are displayed for each invalid input. |
| Actual Result | An error message is displayed only for E-mail field. |
| Postcondition | User is still in the sign-up page. |
| Priority Level | High |
| Status (Pass/Fail/Blocked) | Fail |
| Test Date | Dec 27, 2024 |
| Who Tested It? | Duru Karacan |
| Remarks |  |

### Execution Result of TC009

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC009 |
| Description | Confirm a loading indicator is shown while the form is being submitted (if applicable). |
| Objective | Ensure the user sees feedback during the form submission process. |
| Precondition | The Udemy sign-up page is accessible, and valid data is entered into all fields. |
| Input Data | - Name: Duru Karacan  - Email: durukaracan@gmail.com  - Password: P@ssword123 |
| Execution Steps | 1. Navigate to the Udemy sign-up page.  2. Enter valid data into all fields.  3. Click the "Sign Up" button.  4. Observe the loading indicator (if implemented). |
| Expected Result | A loading indicator is displayed during form submission. |
| Actual Result | A loading indicator is displayed during form submission. |
| Postcondition | User stays logged in. |
| Priority Level | Medium |
| Status (Pass/Fail/Blocked) | Pass |
| Test Date | Dec 27, 2024 |
| Who Tested It? | Duru Karacan |
| Remarks |  |

### Execution Result of TC010

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC010 |
| Description | Ensure the user is redirected to the correct page upon successful submission. |
| Objective | Verify proper redirection to the Welcome page after successful form submission. |
| Precondition | The Udemy sign-up page is accessible, and valid data is entered into all fields. |
| Input Data | - Name: Duru Karacan  - Email: durukaracan@gmail.com  - Password: P@ssword123 |
| Execution Steps | 1. Navigate to the Udemy sign-up page.  2. Enter valid data into all fields.  3. Click the "Sign Up" button.  4. Verify the user is redirected to the Welcome page. |
| Expected Result | The user is redirected to the Welcome page after successful form submission. |
| Actual Result | The user is redirected to the Welcome page after successful form submission. |
| Postcondition | User stays logged in. |
| Priority Level | Medium |
| Status (Pass/Fail/Blocked) | Pass |
| Test Date | Dec 28, 2024 |
| Who Tested It? | Duru Karacan |
| Remarks |  |

### Execution Result of TC011

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC011 |
| Description | Verify error messages appear when required fields are left empty. |
| Objective | Ensure error messages are correctly triggered for empty required fields. |
| Precondition | The Udemy sign-up page is accessible, and all required fields are initially empty. |
| Input Data | - All fields left blank. |
| Execution Steps | 1. Navigate to the Udemy sign-up page.  2. Attempt to click the "Sign Up" button without filling any fields.  3. Verify error messages appear for all required fields. |
| Expected Result | Error messages such as "Name is required," "Email is required," and "Password is required" are displayed. |
| Actual Result | Only a warning message is displayed for Full Name field. |
| Postcondition | User is still in the sign-up page. |
| Priority Level | High |
| Status (Pass/Fail/Blocked) | Fail |
| Test Date | Dec 28, 2024 |
| Who Tested It? | İlke Durmaz |
| Remarks |  |

### Execution Result of TC012

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC012 |
| Description | Validate error messages for invalid email formats. |
| Objective | Ensure the email field provides accurate error messages for invalid email formats. |
| Precondition | The Udemy sign-up page is accessible, and the Email field is visible |
| Input Data | - Email: invalid\_email |
| Execution Steps | 1. Navigate to the Udemy sign-up page.  2. Enter invalid\_email into the Email field.  3. Attempt to click the "Sign Up" button.  4. Verify the error message for the Email field. |
| Expected Result | Error message: "Please enter a valid email address." |
| Actual Result | Error message: "Please enter a valid email address." |
| Postcondition | User is still in the sign-up page. |
| Priority Level | High |
| Status (Pass/Fail/Blocked) | Pass |
| Test Date | Dec 28, 2024 |
| Who Tested It? | İlke Durmaz |
| Remarks |  |

### Execution Result of TC013

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC013 |
| Description | Ensure the error message is shown for passwords failing strength requirements. |
| Objective | Verify the password field provides feedback for weak passwords. |
| Precondition | The Udemy sign-up page is accessible, and the Password field is visible. |
| Input Data | - Password: pass |
| Execution Steps | 1. Navigate to the Udemy sign-up page.  2. Enter pass into the Password field.  3. Attempt to click the "Sign Up" button.  4. Verify the error message for the Password field. |
| Expected Result | Error message: "Password must be at least 6 characters" |
| Actual Result | Error message: "Password must be at least 6 characters" |
| Postcondition | User is still in the sign-up page. |
| Priority Level | High |
| Status (Pass/Fail/Blocked) | Pass |
| Test Date | Dec 28, 2024 |
| Who Tested It? | Duru Karacan |
| Remarks |  |

### Execution Result of TC014

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC014 |
| Description | Confirm multiple error messages are displayed for multiple invalid fields. |
| Objective | Verify that error messages appear for all invalid fields simultaneously. |
| Precondition | The Udemy sign-up page is accessible, and multiple fields contain invalid data. |
| Input Data | - Name: 123  - Email: invalid\_email  - Password: pass |
| Execution Steps | 1. Navigate to the Udemy sign-up page.  2. Enter invalid data into multiple fields.  3. Attempt to click the "Sign Up" button.  4. Verify that error messages are displayed for all invalid fields. |
| Expected Result | Error messages for all invalid fields are displayed simultaneously without overlapping or missing any field. |
| Actual Result | Error message is displayed only for e-mail field. |
| Postcondition | User is still in the sign-up page. |
| Priority Level | Medium |
| Status (Pass/Fail/Blocked) | Fail |
| Test Date | Dec 28, 2024 |
| Who Tested It? | Duru Karacan |
| Remarks |  |

### Execution Result of TC015

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC015 |
| Description | Validate that real-time feedback is updated dynamically as the user types. |
| Objective | Ensure real-time validation messages are displayed as the user types in the input fields. |
| Precondition | The Udemy sign-up page is accessible, and the input fields support real-time validation. |
| Input Data | - Email: dilaracagla@banko (invalid, then corrected to dilaracaglabanko@gmail.com) |
| Execution Steps | 1. Navigate to the Udemy sign-up page.  2. Begin typing dilaracagla@banko into the Email field.  3. Observe the real-time feedback.  4. Correct the input to dilaracaglabanko@gmail.com.  5. Verify the real-time feedback updates dynamically. |
| Expected Result | - For dilaracagla@banko: Error message: "Please enter a valid email address."  - For dilaracaglabanko@gmail.com: No error message is displayed. |
| Actual Result | No error message displayed for both inputs. |
| Postcondition | User is still in the sign-up page. |
| Priority Level | Medium |
| Status (Pass/Fail/Blocked) | Fail |
| Test Date | Dec 28, 2024 |
| Who Tested It? | Dilara Çağla Banko |
| Remarks |  |

### Execution Result of TC016

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC016 |
| Description | Verify redirection to the "Welcome" page upon successful sign-up. |
| Objective | Ensure users are correctly redirected to the "Welcome" page after providing valid inputs. |
| Precondition | The Udemy sign-up page is accessible, and valid data is entered into all fields. |
| Input Data | - Name: Duru Karacan  - Email: durukaracan@gmail.com  - Password: P@ssword123 |
| Execution Steps | 1. Navigate to the Udemy sign-up page.  2. Enter valid data into all required fields.  3. Click the "Sign Up" button.  4. Verify that the user is redirected to the "Welcome" page. |
| Expected Result | The user is redirected to the "Welcome" page without any issues. |
| Actual Result | The user is redirected to the "Welcome" page without any issues. |
| Postcondition | User is still in the sign-up page. |
| Priority Level | High |
| Status (Pass/Fail/Blocked) | Pass |
| Test Date | Dec 28, 2024 |
| Who Tested It? | Dilara Çağla Banko |
| Remarks |  |

### Execution Result of TC017

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC017 |
| Description | Ensure the user remains on the sign-up page when inputs are invalid. |
| Objective | Verify the user is not redirected when invalid or incomplete inputs are provided. |
| Precondition | The Udemy sign-up page is accessible, and invalid data is entered into one or more fields. |
| Input Data | - Name: Duru123  - Email: invalid\_email  - Password: pass |
| Execution Steps | 1. Navigate to the Udemy sign-up page.  2. Enter invalid data into required fields.  3. Click the "Sign Up" button.  4. Verify that the user remains on the sign-up page and error messages are displayed. |
| Expected Result | The user remains on the sign-up page, and error messages are displayed for invalid inputs. |
| Actual Result | Error message is displayed only for e-mail field. |
| Postcondition | User is still in the sign-up page. |
| Priority Level | High |
| Status (Pass/Fail/Blocked) | Fail |
| Test Date | Dec 28, 2024 |
| Who Tested It? | Duru Karacan |
| Remarks |  |

### Execution Result of TC018

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC018 |
| Description | Confirm redirection to an error page when a system failure occurs. |
| Objective | Ensure that critical errors result in redirection to an appropriate error page. |
| Precondition | The Udemy sign-up page is accessible, and a simulated system failure occurs during submission. |
| Input Data | Mock configuration simulating a critical system failure. |
| Execution Steps | 1. Navigate to the Udemy sign-up page. 2. Fill in all fields with valid inputs. 3. Simulate a system failure during form submission. 4. Click the "Sign Up" button. 5. Verify that the user is redirected to an error page with appropriate messaging. |
| Expected Result | The user is redirected to an error page displaying a message like: "An error occurred. Please try again later." |
| Actual Result | Test not executed due to inability to simulate a system failure. |
| Postcondition | No changes made as the test could not be executed. |
| Priority Level | Medium |
| Status (Pass/Fail/Blocked) | Blocked |
| Test Date | Dec 28, 2024 |
| Who Tested It? | Dilara Çağla Banko |
| Remarks | The test case is blocked because the tester cannot simulate a system failure. Coordination with the development team is required to enable simulation of system failures or mock configurations. |

### Execution Result of TC019

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC019 |
| Description | Validate that all redirections occur within acceptable time limits. |
| Objective | Ensure redirection times meet performance requirements (e.g., under 5 seconds). |
| Precondition | The Udemy sign-up page is accessible, and valid data is entered into all fields. |
| Input Data | - Name: Duru Karacan  - Email: durukaracan@gmail.com  - Password: P@ssword123 |
| Execution Steps | 1. Navigate to the Udemy sign-up page. 2. Enter valid data into all required fields. 3. Click the "Sign Up" button. 4. Measure the time taken for redirection to the "Welcome" page. |
| Expected Result | Redirection occurs within 5 seconds or less. |
| Actual Result | Redirection occurs within 5 seconds or less. |
| Postcondition | User stays logged in and remains in welcome page. |
| Priority Level | Medium |
| Status (Pass/Fail/Blocked) | Pass |
| Test Date | Dec 28, 2024 |
| Who Tested It? | Dilara Çağla Banko |
| Remarks |  |

### Execution Result of TC020

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC020 |
| Description | Test redirection behavior under edge cases like slow submissions. |
| Objective | Verify that the system handles edge cases during redirection without failing. |
| Precondition | The Udemy sign-up page is accessible, and a controlled slow network environment is simulated. |
| Input Data | - Name: Duru Karacan  - Email: durukaracan@gmail.com  - Password: P@ssword123 |
| Execution Steps | 1. Navigate to the Udemy sign-up page. 2. Simulate a slow network connection. 3. Enter valid data into all fields. 4. Click the "Sign Up" button. 5. Verify the redirection to the "Welcome" page occurs successfully. |
| Expected Result | The redirection to the "Welcome" page occurs successfully, even under slow network conditions. |
| Actual Result | The redirection to the "Welcome" page occurs successfully, even under slow network conditions. |
| Postcondition | User stays logged in and remains in welcome page. |
| Priority Level | Low |
| Status (Pass/Fail/Blocked) | Pass |
| Test Date | Dec 28, 2024 |
| Who Tested It? | Duru Karacan |
| Remarks |  |

### Execution Result of TC021

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC021 |
| Description | Validate form inputs, buttons, and validations in Chrome. |
| Objective | Ensure the form functions correctly in the Chrome browser. |
| Precondition | The Udemy sign-up page is accessible in Chrome, and all required fields are visible. |
| Input Data | - Name: Duru Karacan  - Email: durukaracan@gmail.com  - Password: P@ssword123 |
| Execution Steps | 1. Open the Udemy sign-up page in Chrome. 2. Fill in all fields with valid inputs. 3. Attempt submission with valid and invalid inputs. 4. Verify validations and button behavior. |
| Expected Result | Form inputs, buttons, and validations function same as previous test cases in Chrome. |
| Actual Result | Form inputs, buttons, and validations function same as previous test cases in Chrome. |
| Postcondition | Chrome browser remains running. |
| Priority Level | High |
| Status (Pass/Fail/Blocked) | Pass |
| Test Date | Dec 29, 2024 |
| Who Tested It? | İlke Durmaz |
| Remarks |  |

### Execution Result of TC022

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC022 |
| Description | Ensure error messages are displayed correctly in Firefox. |
| Objective | Verify the display and functionality of error messages in the Firefox browser. |
| Precondition | The Udemy sign-up page is accessible in Firefox, and invalid data is entered. |
| Input Data | - Name: Duru123 - Email: invalid\_email - Password: pass |
| Execution Steps | 1. Open the Udemy sign-up page in Firefox. 2. Enter invalid data into fields. 3. Attempt to submit the form. 4. Verify error messages are displayed correctly. |
| Expected Result | Error messages are displayed accurately and clearly in Firefox. |
| Actual Result | Error messages are displayed accurately and clearly in Firefox. |
| Postcondition | Firefox browser remains running. |
| Priority Level | High |
| Status (Pass/Fail/Blocked) | Pass |
| Test Date | Dec 29, 2024 |
| Who Tested It? | Dilara Çağla Banko |
| Remarks |  |

### Execution Result of TC023

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC023 |
| Description | Confirm successful redirection after valid sign-up in Safari. |
| Objective | Ensure redirection to the "Welcome" page works as expected in Safari. |
| Precondition | The Udemy sign-up page is accessible in Safari, and all required fields are filled with valid data. |
| Input Data | - Name: Duru Karacan  - Email: durukaracan@gmail.com  - Password: P@ssword123 |
| Execution Steps | 1. Open the Udemy sign-up page in Safari. 2. Enter valid data into all fields. 3. Submit the form. 4. Verify the user is redirected to the "Welcome" page. |
| Expected Result | Successful redirection to the "Welcome" page occurs in Safari. |
| Actual Result | Successful redirection to the "Welcome" page occurs in Safari. |
| Postcondition | Safari browser remains running. |
| Priority Level | Medium |
| Status (Pass/Fail/Blocked) | Pass |
| Test Date | Dec 29, 2024 |
| Who Tested It? | Duru Karacan |
| Remarks |  |

### Execution Result of TC024

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC024 |
| Description | Verify layout and alignment consistency in Edge. |
| Objective | Ensure UI elements are aligned and displayed consistently in the Edge browser. |
| Precondition | The Udemy sign-up page is accessible in Edge. |
| Input Data |  |
| Execution Steps | 1. Open the Udemy sign-up page in Edge. 2. Inspect the alignment of input fields, buttons, and error messages. 3. Compare the layout with other browsers. |
| Expected Result | The Udemy sign-up page is accessible in Edge browser and layout and alignment are visually consistent between different browsers. |
| Actual Result | The Udemy sign-up page is accessible in Edge browser and layout and alignment are visually consistent between different browsers. |
| Postcondition | User remains in Udemy sign-up page and Edge browser remains running. |
| Priority Level | Medium |
| Status (Pass/Fail/Blocked) | Pass |
| Test Date | Dec 29, 2024 |
| Who Tested It? | İlke Durmaz |
| Remarks |  |

### Execution Result of TC025

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC025 |
| Description | Ensure real-time validation scripts run without errors in all browsers. |
| Objective | Verify JavaScript-based client-side validations work consistently across all supported browsers. |
| Precondition | The Udemy sign-up page is accessible in Chrome, Firefox, Safari, and Edge. |
| Input Data | Name: Dilara Cagla Banko - Email: invalid\_email - Password: pass |
| Execution Steps | 1. Open the Udemy sign-up page in each supported browser. 2. Enter invalid data into fields. 3. Verify real-time validation feedback is provided (e.g., password strength, email format). |
| Expected Result | Real-time validation scripts execute without errors, and feedback is consistent across all browsers. |
| Actual Result | Feedback is consistent across all browsers. But real-time validation scripts are not displayed in any of them. |
| Postcondition |  |
| Priority Level | High |
| Status (Pass/Fail/Blocked) | Fail |
| Test Date | Dec 29, 2024 |
| Who Tested It? | Duru Karacan |
| Remarks | Feedback is consistent across all browsers. But similar to results of TC015, real-time validation error messages are not display. Hence status are considered as fail. |

### Execution Result of TC026

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC026 |
| Description | Verify that password characters are properly masked in the input field. |
| Objective | Ensure the password input field masks user entries (e.g., replaces characters with dots or asterisks). |
| Precondition | The Udemy sign-up page is accessible, and the Password input field is visible. |
| Input Data | - Password: P@ssw0rd123 |
| Execution Steps | 1. Navigate to the Udemy sign-up page. 2. Enter P@ssw0rd123 into the Password field. 3. Observe the masking behavior of the input field. |
| Expected Result | Password characters are masked as dots or asterisks while typing. |
| Actual Result | Password characters are masked as dots or asterisks while typing. |
| Postcondition | User remains in the Udemy sign-up page. |
| Priority Level | High |
| Status (Pass/Fail/Blocked) | Pass |
| Test Date | Dec 29, 2024 |
| Who Tested It? | Dilara Çağla Banko |
| Remarks |  |

### Execution Result of TC027

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC027 |
| Description | Verify that the form submission URL uses HTTPS protocol. |
| Objective | Ensure all form data is transmitted securely using HTTPS. |
| Precondition | The Udemy sign-up page is accessible, and the form is ready for submission. |
| Input Data | - (Not applicable as focus is on secure transmission, not specific inputs.) |
| Execution Steps | 1. Navigate to the Udemy sign-up page. 2. Submit the form using any valid or invalid data. 3. Inspect the network request using developer tools. 4. Verify that the protocol is HTTPS. |
| Expected Result | The form submission URL begins with https://, indicating secure transmission. |
| Actual Result | The form submission URL begins with https://, indicating secure transmission. |
| Postcondition |  |
| Priority Level | High |
| Status (Pass/Fail/Blocked) | Pass |
| Test Date | Dec 30, 2024 |
| Who Tested It? | Dilara Çağla Banko |
| Remarks |  |

### Execution Result of TC028

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC028 |
| Description | Verify that client-side error messages don't expose technical details. |
| Objective | Ensure error messages are user-friendly and do not reveal sensitive technical information. |
| Precondition | The Udemy sign-up page is accessible, and invalid data is entered into required fields. |
| Input Data | - Name: Duru123 - Email: invalid\_email - Password: pass |
| Execution Steps | 1. Navigate to the Udemy sign-up page. 2. Enter invalid data into fields. 3. Attempt to submit the form. 4. Verify the content of error messages. |
| Expected Result | Error messages are clear and user-friendly, such as "Please enter a valid email address," without exposing technical system details. |
| Actual Result | Error messages are clear and user-friendly without exposing technical system details. |
| Postcondition | User remains in the Udemy Sign-up page. |
| Priority Level | Medium |
| Status (Pass/Fail/Blocked) | Pass |
| Test Date | Dec 29, 2024 |
| Who Tested It? | Dilara Çağla Banko |
| Remarks |  |

### Execution Result of TC029

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC029 |
| Description | Verify no sensitive data is exposed in browser console or network tab. |
| Objective | Ensure no sensitive user data (e.g., passwords) is visible in browser developer tools. |
| Precondition | The Udemy sign-up page is accessible, and the form is ready for submission. |
| Input Data | - Name: İlke Durmaz  - Email: di86623@gmail.com  - Password: P@ssword123\* |
| Execution Steps | 1. Navigate to the Udemy sign-up page. 2. Fill in all fields with valid inputs. 3. Use browser developer tools to inspect console logs and network activity. |
| Expected Result | No sensitive data is displayed in the console or network logs. |
| Actual Result | No sensitive data is displayed in the console or network logs. |
| Postcondition | No sensitive data is displayed in the console or network logs after user is redirected to the welcome page after succesfully signing up. |
| Priority Level | High |
| Status (Pass/Fail/Blocked) | Pass |
| Test Date | Dec 30, 2024 |
| Who Tested It? | İlke Durmaz |
| Remarks |  |

### Execution Result of TC030

|  |  |
| --- | --- |
| **FIELD** | **VALUE** |
| Test Case ID | TC030 |
| Description | Verify client-side validation prevents submission of malicious inputs. |
| Objective | Ensure client-side validations handle and block malicious inputs effectively. |
| Precondition | The Udemy sign-up page is accessible, and the form fields are ready for input. |
| Input Data | - Name: <script>alert('XSS')</script> - Email: durukaracan@gmail.com - Password: P@ssw0rd123\* |
| Execution Steps | 1. Navigate to the Udemy sign-up page. 2. Enter malicious input into the Name field. 3. Attempt to submit the form. 4. Verify that the form submission is blocked, and an appropriate error message is displayed. |
| Expected Result | The submission is blocked, and an error message indicates invalid input. |
| Actual Result | “Sorry, something went wrong.” Error message is displayed. |
| Postcondition | User remains in the Udemy Sign-Up page. |
| Priority Level | High |
| Status (Pass/Fail/Blocked) | Pass |
| Test Date | Dec 31, 2024 |
| Who Tested It? | İlke Durmaz |
| Remarks |  |

## Appendix 2: Test Summary

|  |  |
| --- | --- |
| **Metric** | **Value** |
| Total Test Cases | 30 |
| Passed | 20 |
| Failed | 9 |
| Defect Trends | **6 Critical** (TC001, TC005, TC007, TC008, TC011, TC017) , **1 Major** (TC014), **2 Minor** (TC015, TC025) |