

Conduit Test Plan

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Introduction

The “Conduit” application is designed as an open-source application to train software development and testing skills. The main website functionality includes registration and sign-in, posting articles on different topics, reading articles, the ability to like an article, posting a comment, and following users.

The Test Plan is designed to prescribe the scope, approach, resources, and schedule of all testing activities of the “Conduit” website.

The plan identifies the features to be tested, the types of testing to be performed, and the resources and the schedule required to complete testing, and the risks associated with the plan.

1. Test strategy

1.1 Testing scope

1.1.1 Features to be tested

Module name	Login type	Description
Conduit logo	Logged in Logged out	Verify that clicking the logo redirects to the Home page.
Home	Logged in Logged out	Display of global feed, personal feed, and the ability to like/unlike articles. Display of global feed only. No like button should be available.
Sign in	Logged out	Ability to enter valid credentials and log in; error shown for invalid data.
Sign up	Logged out	User can register with valid data; proper error handling for duplicates/empty fields.
Profile	Logged in	User profile info is visible, including published articles and favorites.

New Article	Logged in	Ability to create and publish an article with title, body, tags.
Article view	Logged in Logged out	Viewing articles, comment section available; only logged-in users can comment.
Settings	Logged in	Ability to update user info, bio, email, and log out.

1.1.2 Out of test scope

These areas are out of scope for this testing cycle:

- Website Security
- Website Performance
- Website API testing
- Test Automation

1.2 Test types

In this testing cycle, the Conduit website will be tested using the next testing types:

- System testing: all the testing will be conducted on a complete, integrated system to evaluate the system's compliance with its specified requirements.
 - Exploratory testing.
 - Smoke testing for each new build.
 - Functional testing of all the features
 - GUI testing
 - Compatibility testing: test only Windows and MacOS browsers

1.3 Risks and Issues

Risk	Mitigation
Team members lack the required skills for website testing	Assign a mentor or senior QA to support team members; provide focused training or documentation.
Not enough time to test all browsers and OS.	Prioritize testing on the most commonly used browsers based on user analytics; apply risk-based testing.

Not enough time to execute all test scenarios.	Prioritize test cases by business value and risk; focus on smoke, sanity, and high-priority flows.
A member of the team has got sick	Distribute their tasks among available team members; maintain up-to-date documentation so others can step in.

1.4 Test Logistics

1.4.1 Who will test?

Testing will be conducted by:

- **O. Stolyarenko** – responsible for creating test cases, executing manual testing, reporting defects, and documenting test results.
- **Mentor** – provides guidance, reviews test cases and results, and gives feedback on the overall testing process.

This setup simulates a real QA environment and allows me to apply learned theory in practice under the supervision of an experienced specialist.

1.4.2 When will the testing occur?

The team will start the testing after:

Testing will begin once the following **Entry Criteria** are met:

- The Conduit application is accessible and functional in the test environment.
- User Stories and Acceptance Criteria are available or clearly understood.

- Test cases for key functionalities are written.
- Tools for test documentation and bug tracking (e.g., Google Docs, Sheets, or Jira if used) are set up.

Testing will take place according to the training plan, and will include:

- **Feature testing** based on the previously prepared decomposition.
- **Bug reporting** during the execution phase.
- **Mentor review sessions** to evaluate the testing quality and progress.

2. Test objective

The test objectives are to verify the functionality and API of the Conduit app. The testing should be focused on the flow of publishing articles and sharing information between members. The main features are authorization, posting new articles, following members, saving favorite articles on their pages, adding likes, and writing comments. Testing should be done on preselected versions of browsers and mobile devices described in the "System resource" section.

3. Test criteria

3.1 Suspension criteria

- 10% of P0/P1 tests failed, which should lead to the testing suspension until the development team fixes all the corresponding bugs.
- 30% of P2/P3 tests failed, which should lead to the testing suspension until the development team fixes all the corresponding bugs.

3.2 Exit criteria

The test execution will be stopped no later than the last day of the sprint. The exit criteria should be met to complete the testing cycle:

- The mandatory Execution rate is 95%.
- The mandatory Pass rate is 100% for P0/P1 tests.
- The mandatory Pass rate is 80% for P2/P3 tests.
- All necessary artifacts collected: test cases, and bug reports.
- The product should not have known bugs with severity Critical and Major and bugs with Priority High at the time of finishing testing.
- The list of allowed bugs is agreed upon with the developers and managers.

4. Resource planning

4.1 System resources

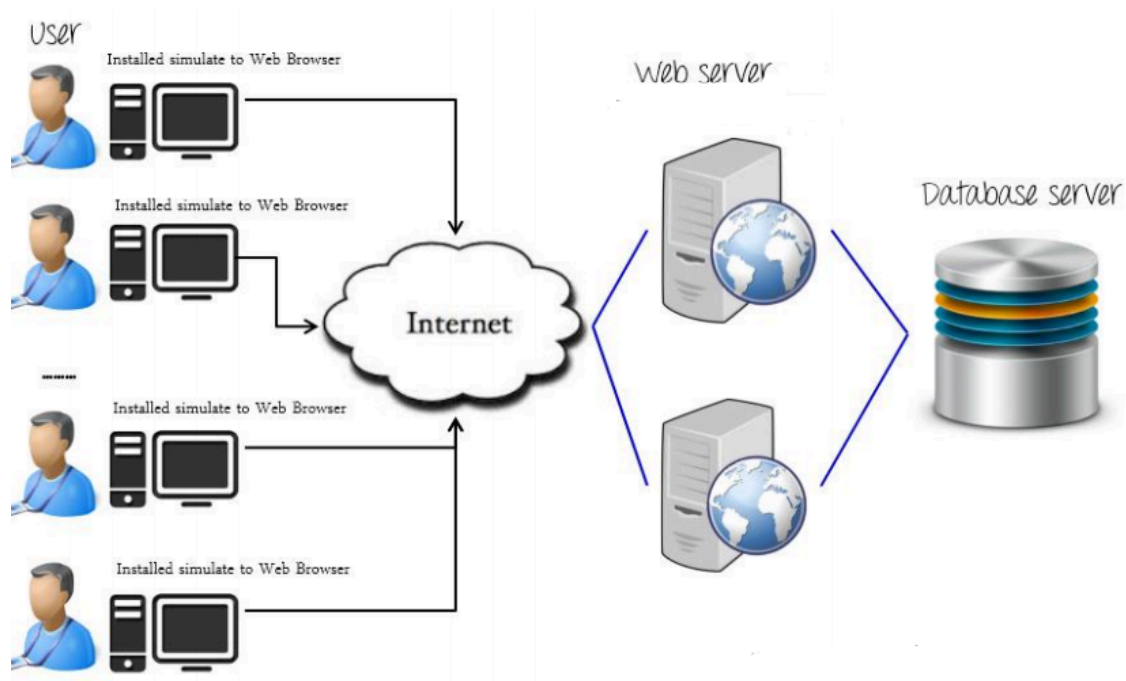
No.	Resources	Description
1	Browser	Google Chrome (latest version)
2	Network	Windows 10
3	Computer	Aspire-A315

4.2 Human resources

No.	Resources	Description of tasks
1	QA members	<ul style="list-style-type: none">• Prepare and execute manual test cases
2	Mentors	<ul style="list-style-type: none">• Review test cases and bug reports• Provide feedback on the quality of testing• Ensure the student follows correct testing methodology

5. Test environment

Testing should be conducted in the production environment. To run the app locally for working with DB we will use Docker.



6. Schedule & estimation

6.1 All project tasks and estimation

Task	Members	Estimate effort
Create Test plan	QA members	3 man-hour
Create decomposition, decision table, state transition diagram	QA member (student)	4 man-hours
Create Test cases	QA member (student)	5 man-hours
Review Test cases	Mentors	1.5 man-hours
Test cases execution	QA member (student)	6 man-hours
Create Bug reports	QA member (student)	2 man-hours
Writing test report	QA member (student)	2 man-hours

6.2 Schedule to complete these tasks

Task	1-st Sprint	2-nd Sprint	3-rd Sprint
Create Test plan	<input checked="" type="checkbox"/>		
Create decomposition, decision table, state transition diagram	<input checked="" type="checkbox"/>		
Create Test cases		<input checked="" type="checkbox"/>	
Review Test cases		<input checked="" type="checkbox"/>	
Test cases execution		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Create Bug reports		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Writing and preparing test results			<input checked="" type="checkbox"/>

7. Test deliverables

7.1 Before the testing phase

- Test Plan
- Feature Decomposition
- Decision Table
- State Transition Diagram
- Test Cases
- Test Environment Setup

7.2 During the testing

- Test Execution Results
- Bug Reports
- Session Notes
- Test Evidence (optional)

7.3 After the testing cycle is over

- Test Summary Report
- Lessons Learned / Improvement Notes
- Mentor Feedback