

# 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, the resources and 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	<p>The user can see in the main menu the “Your Feed” and “Global Feed” buttons. On the right, you can see popular tags. And on top, there are like "Home", "New Article" "Settings" and "My Profile" buttons.</p> <p>The user can see in the main menu the “Global Feed” buttons. On the right, you can see popular tags. And on top, there are "Home", "Sign in", and "Sign UP".</p>
Home	Logged in Logged out	<p>The user can see in the main menu the “Your Feed” and “Global Feed” buttons. On the right, you can see popular tags. And on top, there are like "Home", "New Article"</p>

		<p>"Settings" and "My Profile" buttons.</p> <p>The user can see in the main menu the "Global Feed" buttons. On the right, you can see popular tags. And on top, there are "Home", "Sign in", and "Sign UP".</p>
Sign in	Logged out	<p>The user sees at the top the capital text "Sign in", a link to register "Need an account?" Below are fields for filling in your email and password.</p>

### 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	Offer daily mini-courses to help employees develop new skills and knowledge.
Not enough time to test all browsers and OS.	Identify the most charming browser and OS test them and use pairwise testing
Not enough time to execute all test scenarios.	Test the most critical areas using Smoke testing
A member of the team has got sick	Redistribute critical tasks among team

	members, prioritize key activities, and maintain clear communication to ensure project continuity.
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## 1.4 Test Logistics

### 1.4.1 Who will test?

- QA Engineers
- Developers
- User Acceptance Testers

### 1.4.2 When will the testing occur?

The team will start the testing after:

- Ensure that all project requirements are clearly defined and understood.
- Confirm that the acceptance criteria are established and agreed upon.
- Complete the implementation of all critical features and functionalities.
- Ensure that the initial development cycle is finished and the codebase is stable.
- Conduct thorough code reviews to ensure code quality and adherence to standards.
- Integrate the code into the main codebase and resolve any merge conflicts.

## 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

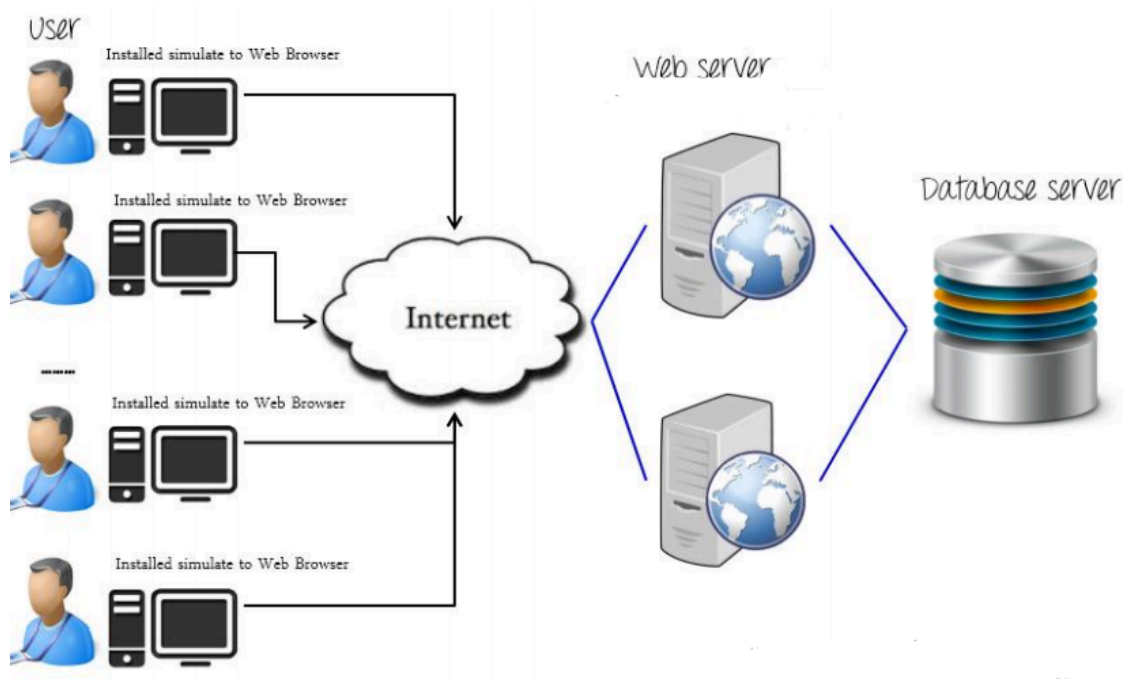
No.	Resources	Description
1	Browser	Google Chrome, Opera, Mozilla Firefox
2	Network	Stable wifi with a speed of at least 10 Mbps
3	Computer	5 personal computers

### 4.2 Human resources

No.	Resources	Description of tasks
1	QA members	<ul style="list-style-type: none"><li>• Manage the whole project</li><li>• Create RTM</li><li>• Work with Scrum</li><li>• Create test cases</li><li>• Create bug report</li></ul>
2	Mentors	<ul style="list-style-type: none"><li>• Mentor and help with emerging problems during the processes of the project itself</li></ul>

## 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	Project Managers	2 man-hour
Create Test cases	QA members	2 man-hur
Review Test cases	Mentors	1 man-hour
Test cases execution	QA members	3 man-hour
Create Bug reports	QA members	5 man-hour
Writing test report	QA members	3 man-hour

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

## 7. Test deliverables

### 7.1 Before the testing phase

- Test Plans document
- Test Cases documents
- Test Decomposition
- State Transition
- RTM

### 7.2 During the testing

- Test Data
- RTM
- Error logs

### 7.3 After the testing cycle is over

- Bug Report
- RTM
- Test Result