

# Conduit Test plan

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# Introduction

The “Conduit” app is designed as an open source to train software developing and testing skills. The main functionality of the website includes registration and sign-in, posting articles on different topics, reading articles, the ability to like an article, to post a comment, to follow a user. 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 Scope of testing

#### 1.1.1 Feature to be tested

Module name	Login type	Description
New Article	User Logged in	User can publish article by filling out all required fields.
Your feed	User Logged in	User can see the list of articles added by him
Global feed	User Logged in / Logged out	User can see the list of articles added by all users
Settings	User Logged in	User can add his URL profile picture. User can change his username, email and password. User can add or change Short bio. User can update settings. User can log out.
Profile	User Logged in / Logged out	Users can view posts added by the selected user, liked posts by the selected user, and add the selected user to their followers
Sign in	User Logged out	User can enter email and

		password to log in.
Sign up	User Logged out	User can create an account by filling all fields.
Article	User Logged in	User can add article to favourite. User can follow the author of the article. User can add comment to an article.
Article	User Logged out	User can read full article and comments.
Tags	User Logged in / Logged out	The user can select any tag by clicking on it. The user can see the articles containing the selected tag.

### 1.1.2 Feature not to be tested

Home page and menu will be tested by an outside company.

## 1.2 Test type

Test team will **conduct**:

- **Smoke testing** to ensure key modules are working properly
- **Compatibility testing** to ensure that the site works properly across different browsers, devices and screen sizes.
- **Performance tests** to ensure that it loads in an acceptable time.

Test team will **not conduct**:

- **Usability testing** will be carried out by a third-party UI and UX company.
- **Localization Testing** due to site will be used locally.
- **Security testing** will be outsourced.

## 1.3 Risk and issues

Risk	Mitigation
<b>Lack of a test administrator in the team.</b>	Hire a test administrator or provide training to current members
<b>Computer breaks down</b>	Provide 1 more computer
<b>First project of new test leader</b>	Provide team management training to the leader

## 1.4 Test logistics

### 1.4.1 Who will test?

The project will be tested by two test teams. The first test team consists of: test leader, test analyst and four testers. The second test team is an external company.

### 1.4.2 When will the test occur?

The testing team will start conducting tests when:

- a test environment is built
- the requirements from the customer are delivered
- the test plan will be completed
- Test administrator will be in the team

## 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 own 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

If the test team members report that 30% of the test cases fail or any of the smoke tests fail the tests will be suspended until all reported bugs are fixed.

### 3.2 Exit criteria

- Run rate must be 100%
- Pass rate shall be 90%
- All critical and high level errors will be fixed

## 4. Resource planning

### 4.1 System resource

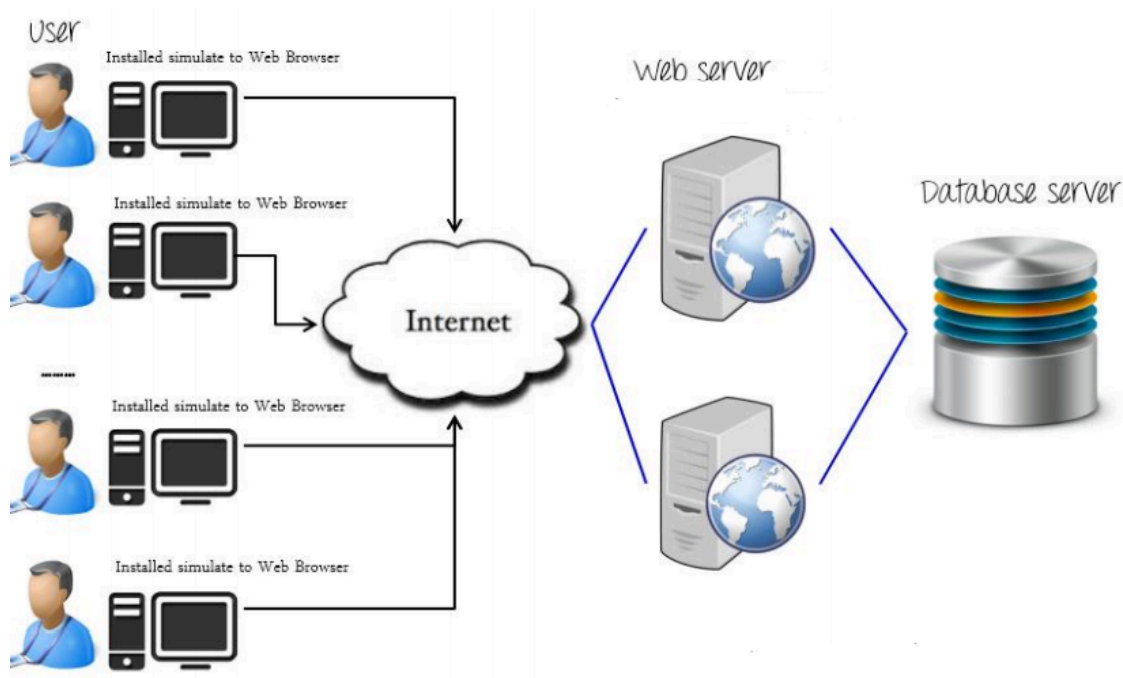
No.	Resources	Description
1.	Server	Database storage and backend hosting
2.	Computer	7 computers performing high-speed computing
3.	Test tools	Software that provides the ability to emulate different systems, connection speeds, resolutions

### 4.2 Human resource

No.	Member	Tasks
1.	Test leader	Managing the test plan, its implementation, assigning tasks. Creating test cases, executing tests, reporting errors.
2.	Test analyst	Writing and updating test documentation, ensuring test case execution, pass rate and completion rate. Creating and updating test report
3.	4 testers	Creating test cases, executing tests, reporting errors.
4.	Test administrator	Builds test environment, provides hardware support

## 5. Test environment

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

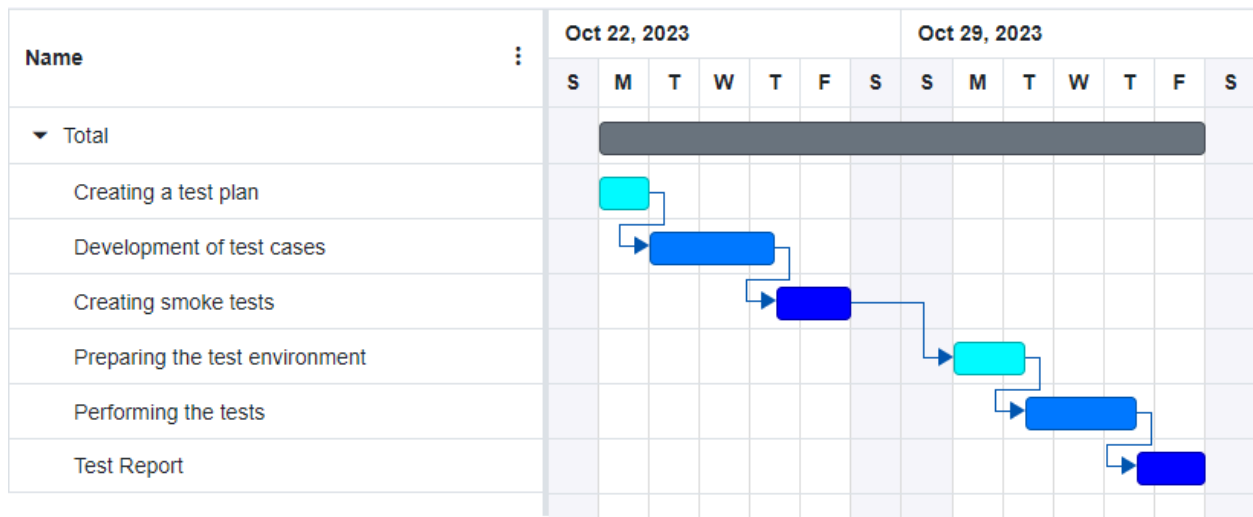


## 6. Schedule & estimation

### 6.1 All project tasks and estimation

Task	Members	Estimate effort
Creating a test plan	Test leader	8 man-hour
Development of test cases	Test leader, testers	20 man-hour
Creating smoke tests	Test leader, testers	12 man-hour
Preparing the test environment	Test Administrator	10 man-hour
Performing the tests	Test leader, testers	20 man-hour
Test Report	Test analyst	10 man-hour
<b>Total</b>		<b>80 man-hour</b>

## 6.2 Schedule to complete these tasks



## 7. Test deliverables

### 7.1 Before testing phase

- Test Plan document
- Test Cases
- Requirements
- Configured environment

### 7.2 During the testing

- Test data
- Requirements Traceability Matrix
- Execution logs
- Bug reports

### 7.3 After the testing cycles is over

- Bug reports
- Test results
- Test report