[Conduit] Test plan

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
Conduit header logo	User Logged in/User logged out	User can reload the site be clicking 'Conduit' link
'Home' link	User Logged in/User logged out	User can be redirected to 'Home' page by clicking 'Home' link
'Sign In' link	User Logged out	User can be redirected to 'Sign in' page by clicking 'Sign In' link
'Sign Up'	User Logget out	User can be redirected to 'Sign up' page by clicking 'Sign up' link
[Like] button	User Logged in/User logged out	User can like the article by clicking [Like]
'User' link	User Logged in/User logged out	User can be redirected to 'User' page by clicking 'User' link

'Article' link	User Logged in/User logged out	User can be redirected to 'Article' page by clicking 'Article link
'Read More' link	User Logged in/User logged out	User can be redirected to 'Article' page by clicking 'Read More'
Popular tags section	User Logged in/User logged out	User can be redirected to 'Article' page by clicking [Article]
[Page] button	User Logged in/User logged out	User can be redirected to next page by clicking [Page]
'Sign In' page	User logged out	User can log in by fill 'Email' and 'Password' fields with valid data and clicking [Sign In]
'Need an account' link	User logged out	User can be redirected to 'Sign Up' page by clicking 'Need an account' link
'Sign Up' page	User logged out	User can registrate the account by filling 'Username' 'Email' and 'Password' fields and Clicking the [Sign Up]
'Have an account' link	User logged out	User can be redirected to 'Sign In' page by clicking 'Have an account' link
Conduit footer logo	User Logged in/User logged out	User can be redirected to main page by clicking 'Conduit' link

'Thrinkster' link	User Logged in/User logged out	User can be redirected to 'Thrinkster' site by clicking 'Thrinkster' link
'New article' link	User Logged in	User can be redirected to 'New article' link by clicking 'New article' link
Publish Article	User Logged in	User can publish the article by filling 'Article Title' 'What's this article about?' 'Write your article (in markdown)' and 'Enter tags' and clicking [Publish article]
'Settings' link	User Logged in	User can be redirected to 'Your Settings' page by clicking 'Settings' link
Update settings	User Logged in	User can update the settings by filling the 'URL of profile picture' 'Short bio about you' 'New password' 'Username' and 'Email' link and clicking the [Update settings]
'Your page' link	User Logged in	User can be redirected to the 'Your page' page by clicking 'Your page' link

1.1.2 Feature not to be tested

- User Interfaces
- Hardware Interfaces
- Software Interfaces
- Communications Interfaces
- Website Security and Performance

1.2 Test type

In the project 'Conduit' these types of testing will be used:

- Functional Testing of all features
- Usability Testing
- Ad-hoc Testing

1.3 Risk and issues

Risk	Mitigation
The internet connection is dropped	Go to the nearest cafe and find the wifi
Not enough time to complete task	Discuss it with mentors and find the solution
Poor knowledge for complete the task	Ask mentors or classmates

1.4 Test logistics

1.4.1 Who will test?

Mate academy team

1.4.2 When will the test occur?

The team wil start the testing after:
- Customization the VPN to connect to the test server
- Creating decomposition,decision table,state transition diagram
- All contracts details will be signed by stakeholders

2. Test objective

The test objectives are to verify the functionality 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 team members report that there are 30% of test cases failed or at least one blocker is detected,suspend testing until the development team fixes all the bags.

3. 2 Exit criteria

The test will continuing within the project. The test execution will be stopped on the last day of deadline.If the necessary documentation is created and test execution is finished,testing is completed.
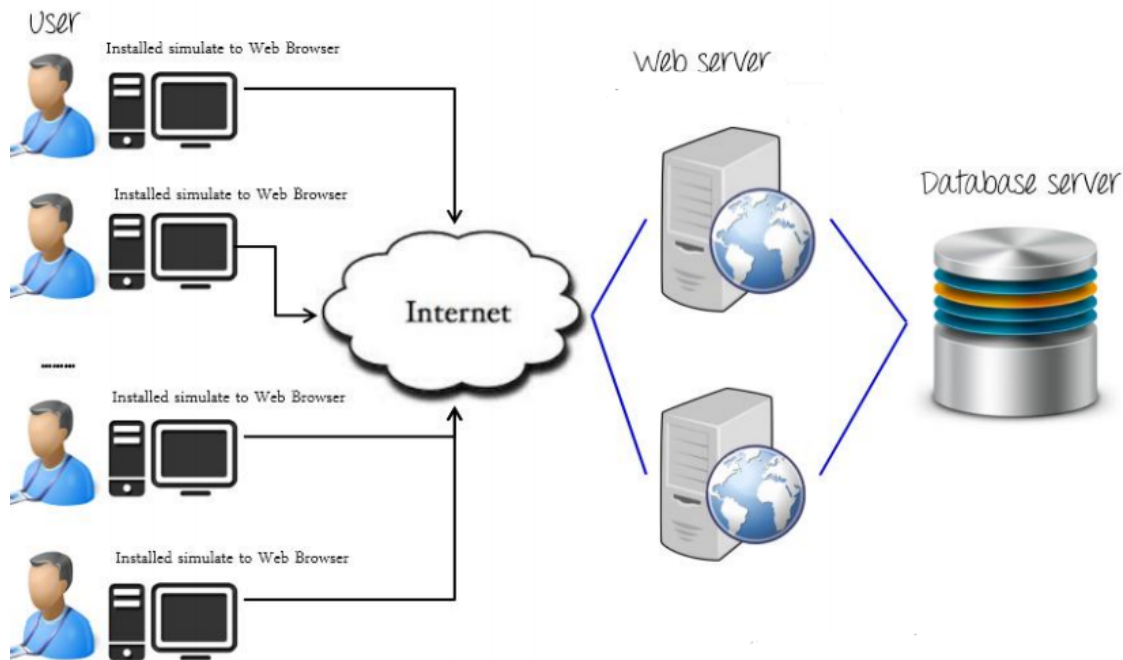
4. Resource planning

4.1 System resource

No.	Resources	Description
1	Network	Stable wifi
2	Browser	Google Chrome,Microsoft Edge
3	Computer	Asus TUF Gaming 2021 Laptop
4	Phones	Iphone 13 Samsung Galaxy S8
5	Docker	To run the app locally for working with DB

4.2 Human resource

No.	Member	Tasks
1	Qa Team	- Manage the whole project - Create decomposition,atate transition diagram,a permission table - Create checklists,test cases, bug reports - Writing test results

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 decomposition	Kristian Vintse	1 man - hour
Creating permission table	Bohdan Hrytsiuk	4 man - hour
Creating state transition diagram	Tetyana Boiko	3 man - hour
Writing checklists	Yevhen Stepanenko	1 man - hour
Writing bug reports	Serhii Dziuba	1 man - hour

Writing test cases	Kristian Vintse	1 man - hour

6.2 Schedule to complete these tasks

Task Name	Monday	Tuesday	Wednesday	Thursday	Friday
Creating decomposition	+				
Creating permission table	+				
Creating state transition diagram	+				
Writing checklists		+			
Writing bug reports		+			
RTM			+		
Writing test cases			+		

7. Test deliverables

Test deliverables are provided below.

7.1 Before testing phase

- Test plan document
- Test cases documents
- State transition diagram
- Permission table
- RTM

7.2 During the testing

- Test data
- RTM
- Error logs

7.3 After the testing cycle is over

- Test Result