

**Test Plan for:**

Thread

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# **1. Introduction**

## **1.1 Purpose**

The purpose of this test plan is to describe the testing process of Thread SPA. The document allows to get an idea of the planned work on project testing.

## **1.2 Source data**

**Thread** is a client-server application in which the client is a Single Page Application (SPA), and the backend is a web service.

## **1.3 Scope**

The purpose of testing the Thread SPA is to check the correct operation of all its functions with typical use cases. A fraction of the time (20%) will be used to test atypical / potentially error-prone usage scenarios.

**The following components and functions would be tested:**

- Registration
- Login and password recovery
- Create a tweet
- Commenting on a tweet
- Update user profile

**The result of the testing process will be the following materials:**

§ report of the testing team regarding the general state, giving the developers and managers of this product a picture of the app's correct operation;

§ documented bugs in the bug tracker of the customer;

Testing will be done manually, by the ad-hoc testing method from the perspective of the end user of the app.

## **2. Conditions for testing**

The app should meet the needs of users related to: the ability to create a posts, commenting on a posts, the ability to like and dislike the post.

## **3. Testing strategy**

The following test plan is formal, as understanding of the current state of the project is needed to build a detailed plan. As a result of the first run of functional tests, changes and improvements will be made to the test plan. The first run of the functional tests will give a clear idea of the level of stability of the system and the set of tests that will be performed in each configuration will be clearly defined.

This approach will give an opportunity to get a detailed report on the product being tested and to focus maximum attention on narrow places.

The customer will be provided with daily reports on the progress of testing, defects found, suggestions for improving the work of the product and its design. All detected defects will be reported to the customer's tracker as separate tickets for subsequent correction.

In the process of testing the Thread app ad-hoc testing will be applied due to the lack of strict specification, as well as due to limited resources for the formalization of tests.

### **Stages of the testing process:**

§ the first stage is to analyze the technical requirements, develop a test plan, and run the functional tests partially;

§ the second stage is to test the product design with a description of the defects found.

§ the third stage will be devoted to a detailed run of the functional tests with the detection and description of defects;

§ the fourth stage is to check the bugs fixed by the developers and conduct regression testing;

Thus, maximum detailing of the testing depth is achieved, which, in turn, allows to determine the spent resources more accurately, as well as allows project developers to correct defects at the earliest stages.

## **3.1 Testing types**

### **3.1.1 Functional testing**

#### **Objective:**

Identify functional errors, inconsistencies with the requirements and expectations of the user through the implementation of standard as well as non-trivial test scenarios.

#### **Process description:**

##### **Registration / Authorization**

- § User registration
- § User authorization
- § Anonymous login
- § Password recovery

##### **Profile**

- § Profile creating
- § Profile updating
- § Deletion of the profile
- § User status view function
- § User logout from personal account

##### **Post Interaction**

- § Like/Dislike the post
- § Update post
- § Delete post

##### **Comment Interaction**

- § Update comment
- § Delete comment
- § Like/Dislike the comment

##### **Post and Comment Display**

- § Filter
- § Display who liked/disliked the post
- § Display who liked/disliked a comment

### **3.1.2 Cross-browser testing**

- § Google Chrome 120.0.6099.131

§ Microsoft Edge 120.0.2210.91

§ Mozilla Firefox 120.0.1

§ Safari 17.2

### **3.1.3 Regression testing and verification of fixed defects**

#### **Objective:**

Checking the changes made on the site in order to make sure that the new version does not contain errors in the already tested parts of the site.

In the course of regression testing, the following types of tests will be conducted:

§ Verification Tests

§ Version testing

§ Testing related functionality

### **3.1.4 Testing the design**

#### **Objective:**

Verification of product design compliance with specifications

§ Process description

§ Main page of the site

§ Registration form

§ Profile page

## **4. Resources**

### **4.1 Tools**

The following tools will be used for this project:

<b>Name of process</b>	<b>Tool</b>
Defect Tracking	Jira

Test Cases	Testrail
Screenshots / Video capture	Snagit

## 4.2. OS, approved for testing

§ Windows 11

§ MAC OS 10.14.6 Mojave

## 4.3. The list of the browsers

§ Google Chrome 120.0.6099.131

§ Microsoft Edge 120.0.2210.91

§ Mozilla Firefox 120.0.1

§ Safari 17.2

## 5. Testing schedule

Task	Workload	Start date	Expiration date
Making a test plan	12 hours	27.12.2023	29.12.2023
Check list	12 hours	3.01.2024	05.01.2024
Test execution			
Test Analysis			
Summarizing			

## 6. Final results

### 6.1 Resume

The final result of the testing should be the complete summary consequence of testing process with the described defects and recommendations for the improvement of the product from the perspective of the end user.