**Test plan for**

**TUBTRUNK**

*ChangeLog*

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Change Date** | **By** | **Description** |
| version number | Date of Change | Name of person who made changes | Description of the changes made |
| 1.0 | 2/25/2021 | Trung Nguyen | Add current test plan |
|  |  |  |  |

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# Introduction

Brief introduction of the test strategies, process, workflow and methodologies used for the project

## Scope

### In-Scope

All the major features in the application are considered in scope and will be tested. The features are namely

* Focus timer
* Reward System
* Statistics
* Networking
* Leaderboard/Achievement

### Out-of-Scope

Functional features that we are not planning to test

* Tablet compatibility: the application is currently only targeted at smartphone users, so we are not testing for tablet compatibility for now
* Screen orientation: the application currently only supports portrait mode

## Quality Objective

Overall, what we want to achieve with testing is to ensure the quality of the product and the satisfaction of our customers. We have broken this overarching objective into smaller, more concrete objectives to help us get there, they are

* Ensure the Application Under Test (AUT) conforms to functional and non-functional requirements
* Ensure the AUT meets the quality specifications defined by the client
* Ensure the AUT achieves satisfactory performance
* Ensure the AUT is usable and intuitive for any end-users using our application for the first time
* Ensure the AUT has a consistently look, feel, behavior and experience
* Bugs/issues are identified and fixed before go live

## Roles and Responsibilities

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Net ID** | **GitHub username** | **Role** |
| Anh Nguyen | nguyenda | tsonga12 | Developer/QA Tester |
| Quoc Nguyen | nguyenvq | quocvinguyen | Developer/QA Tester |
| Thai Nguyen | nguyend1 | thain-gd | Developer/QA Tester |
| Trung Nguyen | nguyent2 | tg106 | Developer/QA Tester |
| Tuan Ngo | ngoa2 | tuanngo1001 | Developer/QA Tester |

# Test Methodology

## Overview

Our development model is an iterative one, hence our testing approach is to have new modules implemented within an interation be tested, as well as testing the entire system all together at the end of each iteration.

## Test Levels

Tests are categorized and written according to the follow levels

* Unit tests
* Integration tests
* System tests
* Acceptance tests

## Bug Triage (skip this part, it should be indicated in github)

## Suspension Criteria and Resumption Requirements (not required for the course)

## Test Completeness

Our criterias for test completeness are

* 100% test coverage
* >= 95% test pass rate, with the 5% failure being low priority/low risk
* All manual & automated test cases executed for every push/pull requests to develop and main
* All open bugs are fixed or will be fixed in next release

# Test Deliverables

Test artifacts delivered during each iteration will be

* Test cases
* Log files
* Bug reports if any

# Resource & Environment Needs

## Testing Tools

Tools used are

* Github actions – flutter workflow
* TBD

## Test Environment

Automated tests are run using github’s flutter workflow with a container setup using latest Ubuntu.

# Terms/Acronyms

Make a mention of any terms or acronyms used in the project

| TERM/ACRONYM | DEFINITION |
| --- | --- |
| API | Application Program Interface |
| AUT | Application Under Test |