# Project Test Plan

## Introduction

This primary purpose of this plan is to ensure that the required functionalities stated in the project write-up are well finished, and the web application is fully tested before submission. The project test plan will have three levels of test, unit, integration and system test.

## Major features to be tested

1. Login function
2. Bootstrap
3. Basic app usage report
4. Top-k usage report
5. Smartphone overuse report
6. Dual interface

## Testing Sequence

The testing sequences lists down the necessary stages of testing in each iteration. For each iteration, we’ll first go through unit test, follow by integration test when the codes are integrated, and then proceed to system test. Once finished, the tested function will be deployed to OpenShift, and the integration test and system test will be performed sequentially on OpenShift.

Local Environment

OpenShift

## Testing schedule

Time has been allocated within project schedule for all testing activities (test case design/ execution). The specific dates and times for each activity are defined in the project schedule. The persons required for each process are detailed in the project schedule as well. The 3 tables below are the planned execution time for major features.

**Iteration 3**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Functions | Tester | Environment | Start Time | End Time |
| Login | Fuyan | Local | 28-Sep | 28-Sep |
| Bootstrap | Fuyan, Claudie | Local | 4-Oct | 6 -Oct |
| Basic app usage report | Miaoqiong, Gaoshuang | Local | 4-Oct | 6 -Oct |
| Login | Fuyan | OpenShift | 7-Oct | 7-Oct |
| Bootstrap | Dewang, Gaoshuang | OpenShift | 7-Oct | 7-Oct |
| Basic app usage report | Claudie, miaoqiong | OpenShift | 7-Oct | 7-Oct |

**Iteration 4**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Functions | Tester | Environment | Start Time | End Time |
| Top-k usage report | Dewang, Claudie | Local | 16-Oct | 18-Oct |
| Smartphone overuse report | Miaoqiong, Fuyan | Local | 16-Oct | 18-Oct |
| Top-k usage report | Claudie, Gaoshuang | OpenShift | 19-Oct | 19-Oct |
| Smartphone overuse report | Dewang, Miaoqiong | OpenShift | 19-Oct | 19-Oct |

**Iteration 5**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Functions | Tester | Environment | Start Time | End Time |
| Dual Interface | Miaoqiong, Fuyan | Local | 25-Oct | 25-Oct |
| Dual Interface | Dewang, Gaoshuang | OpenShift | 26-Oct | 26-Oct |