**MASTER TEST PLAN**

**1 TEST PLAN IDENTIFIER CALMP-1.0**

**2 REFERENCES**

None Identified.

**3 INTRODUCTION**

This is the Master Test Plan for the iOS Calendar project. The primary focus of this plan is to ensure that functions provided by the iOS Calendar application work without issues.

The project will have two levels of testing, Unit and Acceptance. The details for each level are addressed in the approach section and will be further defined in the level specific plans.

The estimated timeline for this project is a month, as such, any delays in the development process could have effects on the test plan.

**4 TEST ITEMS**

The next items to be tested:

* Calendar Version 1.0

**5 SOFTWARE RISK ISSUES**

Visible risk is no project documentation and original requirements document. All requirements were discussed online and requirements documentation was not created. It might lead to the next problem:

* difficulties with unit tests creation
* misunderstanding between developers/testing team/client regarding original requirements
* some of the functionalities can be missed because they are not obvious or they were not shown to testing team on the project introduction meetings between testing team and dev team/client
* difficulties in understanding what was expected for each functionality

**6 FEATURES TO BE TESTED**

The following is a list of the areas to be focused on during testing of the application.

1. CRUD operations (create, read, update, delete) on calendar events
2. Search functionality for events
3. Importing ICS files (basically provided in emails to import event into calendars)
4. Changing calendar views (day, week, month, year views)

**7 FEATURES NOT TO BE TESTED**

The following is a list of the areas that will not be specifically addressed. All testing in these areas will be indirect as a result of other testing efforts.

1. Calendar Widget

All functionalities related to the widget on the home screen have to be ignored. It will not be included in this release of the application.

**8 APPROACH**

**8.1 Testing Levels**

The testing for the project will consist of Unit and Acceptance test levels.

**Unit Testing**

Since project and requirements documentations were not provided, before starting Unit Testing has to set up a number of meetings where dev team, testing team and client can discuss key functionalities, divide them into separate components/modules for further test case creation. Unit Testing will be done by the testing team and will be approved by the testing lead. Proof of unit testing (test case list, sample output, defect information) must be provided by the QA members to the testing team leader before unit testing will be accepted.

**Acceptance Testing**

Acceptance Testing will be performed by the actual end user (client) with the assistance of the testing team leader and development team leader.

The application will enter into the Acceptance testing after all critical and major defects have been corrected. The program may have one/two major defects as long as they do not impede testing of the program (i.e. there is a work around for the issue). Prior to final completion of acceptance testing all open critical and major defects must be corrected and verified by the client.

**8.2 Meetings**

The next list of meetings is required for the testing team:

* project introduction meeting with dev team and client
* number of meetings with dev team and client to discuss key functionalities and divide them into separate components/modules for further Unit Testing
* daily meetings to evaluate progress to date and to identify error trends and problems as early as possible.
* once every two weeks meeting between test team leader, dev leader, project manager and client
* additional meetings can be called as required for emergency situations.

**8.3 Measures and Metrics**

The following information will be collected by the QA team during the Unit testing process. This information will be provided to the project team on a biweekly basis.

1. Defects by module and severity.
2. Defect Origin (Requirement, Design, Code)
3. Time spent on defect resolution by defect

**9 ITEM PASS/FAIL CRITERIA**

The test process will be completed once all test cases will be executed and only 5% of them contain some number of minor defects. As part of acceptance testing, the client has to accept the project for production deployment.

**10 SUSPENSION CRITERIA AND RESUMPTION REQUIREMENTS** Testing is paused in case of critical/major defects which blocks QA team / Client to test the particular functionality. Only after fixing them QA team / Client can resume testing.

**11 TEST DELIVERABLES**

Acceptance test plan

Unit test plans

Screen prototypes

Defect/Incident reports and summaries

Test logs

**12 REMAINING TEST TASKS**

|  |  |  |
| --- | --- | --- |
| TASK | Assigned To | Status |
| Create Acceptance Test Plan | TM, PM, Client |  |
| Define Unit Test rules and Procedures | TM, PM, Dev. |  |
| Verify prototypes of Screens | Dev, Client, TM |  |

**13 ENVIRONMENTAL NEEDS**

The following elements are required to support the overall testing effort at all levels within the project:

* Set of Apple mobile devices (iPhone, iPad) with operating system version greater than iOS 15 / iPadOS 15
* Installed development and production versions of the application on the devices

**14 STAFFING AND TRAINING NEEDS**

There will be at least two (2) full time testers assigned to the project for the unit and acceptance testing phases of the project to prevent situations when one of the testers is not available.

Trainings are not required since the application doesn’t have any difficult in understanding functionality.

**15 RESPONSIBILITIES**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Dev  Team | Test  Team | Client |
| Acceptance test Documentation & Execution | X | X | X |
| Unit test documentation & execution | X | X |  |
| System Design Reviews | X | X | X |
| Test procedures and rules | X | X |  |
| Screen prototype reviews | X | X | X |

The QA team leader will be responsible for the verification and acceptance of all unit test plans and documentation. As well he/she is responsible for all test plans and documentation.

The entire project team will participate in the review of the system and review of any change requests that are generated by the client or as a result of defects discovered during development and testing. The entire project team is also responsible for participating in the execution of the acceptance test plan.

**16 SCHEDULE**

Time has been allocated within the project plan for the following testing activities. The specific dates and times for each activity are defined in the project plan time line. The persons required for each process are detailed in the project time line and plan as well. Coordination of the personnel required for each task, test team, development team and customer will be handled by the project manager in conjunction with the development and test team leaders.

1. Development of Master test plan by test lead and test with time allocated for at least two reviews of the plan.
2. Development of Acceptance test plans by test lead and other essential personnel with time allocated for at least two reviews of the plans.
3. Unit test time within the development process.
4. Time allocated for both Unit and Acceptance test processes.

**17 PLANNING RISKS AND CONTINGENCIES**

Since project and requirements documentations were not provided the number of test performed will be increased because of retesting functionality which were tested incorrectly/using invalid data sets. As well the number of acceptable defects might be increased to speed up delivery of the application to customers. To avoid these problems dev team and client have to provide corresponding documentation.

**18 APPROVALS**

|  |  |
| --- | --- |
| Project Owner - Steve Owner |  |
| Project Manager - Peggy Project |  |
| Development Team Lead - Dale Dev |  |