**Test Design Document for Attendance Sheet**

**Introduction**

The primary goal of this document is to establish a plan for the activities that will verify product as a high-quality product that meets the needs of business community. These activities will focus upon identifying the following:

* Features to be tested
* Testing approach
* Roles and responsibilities
* Release criteria
* Hardware
* Risk Assessment

**Features To Be Tested**

* Creating Attendance Sheet
* Punch IN and Punch OUT functionalities
* Timesheet Functionalities
* Pay Hours
* Approve or Rejection of Timesheet by Manager

**Testing Approach**

The system test team will begin designing their detailed test plans and test cases, as the development team is designing and coding. Manual testing will be done, and test results will be published in issued folder.

The builds will be delivered to system test via Subversion drops coordinated by the development team. The development team will be responsible for installing the partial new builds into the existing structure of the system test environment and updating the client machines if necessary. Build notes with all changes since the last drop and all files to be delivered will accompany each build drop.

Once the build is dropped by the development team, a series of scripts, called the Smoke Test, will be run to ensure that the shipment from development is in a state that is ready for testing. The Smoke Test scripts will test the basic functionality of the system. These scripts may be automated once they are successfully performed manually. If an excessive number of Smoke Test items fail, the product will be shipped back to development and no testing will begin until the Smoke Test passes

Developers will perform all smoke tests on local version of system before publishing in repository. Developer is not able to publish any codes to repository if some of smoke test items fail.

Testers carry out testing according to strategy. Testers set severity for each issue and Project manager/Team Leader uses these to prioritize bugs fixing. Each day additional drops will be delivered to regression test. At the end of development there is a release for which system testing is carried out.

**Bug Tracking System**

Test Lead will put new and reopened issues to <Project repository>/issues/new. Project manager and Team leader will assign new issues to project participants. Assigned tasks will be placed to <Project repository>/issues/assigned/<Person login>.

Developers will put fixed issues to <Project repository>/issues/fixed.

Test Lead will move resolved and closed issues to <Project repository>/issues/resolved.

**Release Criteria**

**Test Case Pass/Fail Criteria**

The feature will pass or fail depending upon the results of testing actions. If the actual output from an action is equal to the expected output specified by a test case, then the action passes. Should any action within a test case fail, the entire feature or sub-feature fails. The specific criteria for test case failure will be documented in test cases documents.

If a test case fails, it is not assumed that the code is defective. A failure can only be interpreted as a difference between expected results, which is derived from project documentation, and actual results. There is always the possibility that expected results can be in error because of misinterpretation, incomplete, or inaccurate project documentation.

**Pass Criteria**

1. All processes will execute with no unexpected errors
2. All processes will finish update/execution in an acceptable amount of time based on benchmarks provided by the business analysts and documented by the development team

**Release to User Acceptance Test Criteria**

The release criteria necessary to allow the code to migrate to User Acceptance Testing are as follows:

* There are no open bugs with a severity 1 or 2
* Test cases scheduled for both Integration and system test phases have passed.
* Successfully passes the final regression testing.
* There are no discrepancies between the master setup and the version used during the final regression testing.

**Risk Assessment**

Project should be completed within span of 3 months.