**Test Plan**

**Purpose:**

To make sure there’s no critical risk when this “check warranty” portion is deployed to production next release.

**Scope:**

* First priority to be tested: “check warranty” portion.
* No need to be tested: “Get help” portion (suppose there’s only a few customers taking care of this portion)
* Others: Other portions in the web page need to be tested.

**Features to be tested (also the primary features we focus on):**

* Warranty feature
* Serial number feature

**Features not to be tested:**

* Features which only support “Get help” portion (ex: Some APIs which are only used for “Get help”)

**Risks:**

* If all the tests can’t be done on time (including that there’s blocker issue can’t be fixed on time), then we will delay the deployment time until all the risks are gone.

**Test Types:**

* Unit test
* API tests (all the APIs related to the features to be tested)
* Web UI tests (related to the features to be tested)
* Server load test
* Usability test (ex: if the feature on the UI is easy for some groups to use?)

**Test Platforms:**

* OS: Windows, Mac
* Browsers: Chrome, Firefox, Edge
* (Please test all the combinations above. If it’s impossible to test them on time, then testing the most popular combination which is “Windows + Chrome” will be acceptable)

**Issue Severity Definition:**

* Severity 1: Also called blocker issue.
  + The issue which causes the main feature not to work or it stops the testing from keeping going
* Severity 2:
  + The issue which impacts a little bit of user's feeling but the main feature still can work normally
* Severity 3:
  + The issue which impacts almost nothing of user's feeling. (ex: It lacks only one character in web page.)

**Test Phases:**

* Alpha: 2 weeks (not including the issue fixing times)
* Beta: 2 weeks (not including the issue fixing times)
* Prod: 1hr (just make sure the new release is deployed to production)

**Test Phases Entry/Exit/Suspend Criteria:**

* Alpha:
  + Entry:
    - Developers have finished the new feature and the unit tests
    - Feature is deployed to Alpha.
  + Suspend: When there are severity 1 issues in any of the test types above
  + Exit: All the severity 1 issues are fixed
* Beta:
  + Entry:
    - All the severity 1 issues are fixed
    - Feature is deployed to Beta
  + Suspend: When there are severity 1 issues in any of the test types above
  + Exit: All the severity 1 and severity 2 issues are fixed
* Prod:
  + Entry:
    - All the severity 1 and severity 2 issues are fixed
    - Feature is deployed to production.
  + Suspend: Prod is crashed after deploying
  + Exit: Only make sure the correct version is deployed to prod. (ex: check the web UI is correct version.)

**Resources:**

* TE x2
* Developer x2

**Training:**

* How to validate the new feature (ex: how to validate the new API to check the warranty status)
* How to leverage some automation tools to test

**Test Deliverables:**

* Test cases
* Test report
* Automation test framework
* Issue logs