**TEST PLAN**

**In scope:**

* Third party tools integration
* User stories in this epic
* Test data creation

**Out of scope:**

* Third party tool testing

**Test deliverables:**

* Before
  + Test plan
  + Test cases
* During
  + Test cases documentation / execution
  + Defect creation
  + Test data
  + Automation scripts / execution
* After
  + Defect(s) report
  + Manual Test Execution report
  + Automation test execution report

**Test Process:**

* Smoke test will be run to accept the build
* Different test scenarios and test types will be conducted based on this test plan
* Any defects identified will be entered in JIRA and will be attached to the user story
* Development to address all critical and high defects
* PO will prioritize reported defects and determine what need to be addressed for release

**Test Types:**

* API Level / Layer Tests:
* Smoke (Get calls only to validate 200 status)
* Integration or Consumer Driven Contracts (PACT)
* Functional Test
* Regression
* UI Level / Layer Tests:
* Smoke (Get calls only to validate 200 status)
* Functional (Positive, Negative, Boundary)
* End to End
* Regression
* Multi browser (Chrome, Firefox, IE)
* Multi Device (IOS, Android)
* Performance Tests (UI - SLA:3 seconds, API - SLA: 100ms)
  + Load
  + Stress
* Database validation
* Accessibility testing (if applicable)

**Tools in consideration:**

* UI - Cypress, Selenium, Java / JavaScript
* API – Rest Assured, Postman, Karate
* Mobile – Appium, Browser Stack / Sauce labs
* Performance – JMeter, K6

**Test Scenarios:**

User Story 1:

* To verify that phone number field is added to billing address
* To verify that phone number is a required field and only accepts numeric values
* To verify that area code validation occurs when phone number is entered

User Story 2:

* To verify that error message is displayed under the required field if the value is not provided
* To verify that when United States of America is chosen as country, zip code will be displayed along with dropdown for selecting STATE
* To verify that when Canada is chosen as country, zip code will be displayed along with dropdown for selecting STATE
* To verify that when United States of America is chosen as country, zip code will be displayed along with dropdown for selecting STATE

**Outstanding questions:**

* In user story 2, when I choose any country (not US or Canada) – what type of checks are performed on STATE value (only alphabets)?
* Is address validity checked with 3rd party API (ex: google, Pitney Bowes)?

**Risks:**

* If final build is not provided on time, we may not have sufficient time for regression tests
* Third party tool integration failures
* Test environment issues / unavailable