Project Name: Go City

**Test Strategy**

**Revision History**

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| --- | --- | --- | --- |
| Date | Version | Author | Description |
| 08-12-2020 | 0.1 | Rituparna Banerjee | Initial Version |

Document Approval

|  |  |
| --- | --- |
| Role | Name |
| Product Manager |  |
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1. **Scope:**

The scope of testing is to test the Go City web site according to the requirements which will be present as epics in jira board.

1. **Types of Testing:**

Below are the different types of testing along with the responsible person who will perform the testing

|  |  |
| --- | --- |
| **Types of Testing** | **Responsibility** |
| Unit Testing | Developer |
| API Testing | Tester |
| Functional Testing | Tester |
| Regression Testing | Tester |
| Security Testing | Tester |
| Integration Testing | Tester |
| Automation Testing | Tester |
| Performance Testing | Tester |
| Accessibility Testing | Tester |
| Cross Browser Testing | Tester |
| Mobile Testing | Tester |

Note: Regression pack will be mostly automated

1. **Testing Approach:**

Developers will move the ticket to Ready For Test after successful unit testing and demo to the team members. QA member will pick up the ticket and after successful completion of testing will move the ticket to Done if no defects are found. If needed QA will run the automated test pack in QA environment. Developer will prepare release branch and merge the code in the staging environment (before production environment). QA will run the smoke test and automated regression pack in this environment. If there is any issue noticed the respective ticket will be moved back.

1. **Testing Tools:**

|  |  |
| --- | --- |
| **Types Of Testing** | **Tools** |
| API Testing | Postman, SoapUI |
| Security Testing | Veracode |
| Automation Testing | Selenium web driver, maven, cucumber with Java or selenium webdriverio, node js, cucumber with javascript for functional testing. Rest-assured library framework will be used for API testing. CircleCI will be used as CI/CD tool. |
| Performance Testing | Jmeter |
| Accessibility Testing | Axe |
| Cross Browser Testing | Browser stack |
| Mobile Testing | Browser stack |
| Defect Tracking | Jira |

1. **Test Environments:**

Below are the test environments, set up of the test environments will be done by the devops team members. Any issue with the test environment will be resolved by the devops team member with the help of developer and qe members if needed.

QA1 -

QA2

QA3

QA4

Staging

1. **Device & Browser Coverage:**

Below are the devices and browsers on which testing will be carried out:-

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Iphone | Ipad | Android | Tablet | Browser |
| Latest version available in browser stack | Latest version available in browser stack | Latest version available in browser stack | Latest version available in browser stack | Chrome |
| iPhone 11 PRO MAX | iPad Pro 12.9.2018 | Galaxy s10 Plus | Galaxy Tab S7 | IE11, edge |
| iPhone XS | iPad 7th | Galaxy s8 plus | Galaxy Tab S6 lite | Safari |
| iPhone XR | iPad 6th | Galaxy s7 | Galaxy Tab S6 | Firefox |

1. **Test Data:**

Test Data requirements will be identified by the test team members and they will work with the product manager and developers to get/set up the data before testing

1. **Risk Analysis:**

|  |  |
| --- | --- |
| Risk | Mitigation Plan |
| Change in requirements during testing | Any change in requirement should be notified to the team at the earliest |
| Environment not available | Multiple environments to be reserved in case one environment goes down |
| Test Data not available | Test team should work with internal or external teams to get/set up the data needed before testing commences |