Risks

None at the point of writing the strategy

**Exceptions**

**Reviews**

* Collaborator Reviews to be used before application and test code is merged to the main branch is git hub
* Peer Reviews
* Product Owner / User sign off of stories.

**Tools**

**Ruby**

[**https://www.ruby-lang.org/en/**](https://www.ruby-lang.org/en/)

**Cucumber**

[**https://cucumber.io/**](https://cucumber.io/)

**Github**

[**https://github.com/**](https://github.com/)

**Approach**

Quality is “Team responsibility”  
“User stories are an invitation to a conversation”

**Pre Development**

* Identify **user stories** from needs not wants
* **3 Amigo** meeting to create test scenarios and clarity on ‘what’ to develop
* Be clear on **acceptance criteria** to sign off

“Work together to review and avoid duplication of tests”  
“Automate as much as possible”

**Development test levels**

* **Unit test** – Developer responsibility
* **Acceptance test** – QA responsibility
* **Exploratory test** – QA led but all to be involved
* **Non-functional test** – QA responsibility but working with infrastructure

A **defect** should be raised if identified, if the fix is going to take more than 4 hours to fix. If it is a quick fix, just fix it!

**Focus Areas**

|  |  |  |
| --- | --- | --- |
| **High** | **Medium** | **Low** |

|  |  |
| --- | --- |
| Focus for Development | In/Out scope |
| Functionality | High |
| Security | High |
| Regression | High |
| Maintainability | Medium |
| Auditability | Medium |
| Business Process | Medium |
| Accessibility | High |

|  |  |
| --- | --- |
| Focus for Service | In/Out scope |
| Continuity of processing | High |
| Reliability | High |
| Portability | High |
| Performance | High |
| Usability | Medium |
| Operability | Medium |

Continuous Integration (CI)

* **N/A** **As I understand it this code is not going into production so there is no requirement for CI**

**Development pipeline**

**Investigation Only**

Migration of existing code so there should be no Lint validation errors

Deploy to Production

Deploy to pre-prod

Infrastructure checks

Shippable code

Exploratory tests  
Non-functional tests

Acceptance tests

Unit Test

Linting

**Assignment1 Quality Strategy**

After manual tests with no issues found

**Investigation**

**Only**

All acceptance tests passed

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| --- |
| Focus for development |
| **Functionality HIGH**   * static code analysis – to identify any early defects * exploratory testing – to detect defects outside of the user stories acceptance tests – chance to use testing knowledge and involve the rest of the development team * automated scripts for the high frequency/risk flows – achieve rapid feedback and test efficiently. |
| **Security HIGH**  This has been considered a high risk area due to personal details of users being held by the system.  Liaise with the Security Team to confirm conformance with LR security rules. |
| **Regression HIGH**  Regression of all signed off user stories will be run as the system is developed during future iterations – to confirm no impact by new development work  Tests will be created and maintained using ruby/cucumber so a regression pack will be developed as the development progresses – to achieve rapid feedback as new code is deployed. |
| **Maintainability MEDIUM**  Code should be clear and well commented to allow future development/enhancements to be made – to allow ease of maintenance  Code should be consistent across the team – to allow each team member to work on each other’s areas – look at current best practices  Application and Test Code to be refactored as the development process progresses – to allow ease of maintainability |
| **Auditability MEDIUM**  Need to identify the auditability solution and confirm it during testing – confirm auditability is being logged |
| **Business Process MEDIUM**  Overviews of the solution to be demonstrated to the Service Desk staff – to allow a smooth handover out of development  Create a plan for the launch of the service, detailing any changes to current processes – to allow a smooth handover out of development  Establish if any metrics are to be gathered and confirm they are being captured – to confirm that the correct measures are in place  Form a Maintenance support plan - to allow a smooth handover out of development |
| **Accessibility HIGH**  Currently classed as high due to the legislative importance of this area.  Tests to be run to confirm adherence to WCAG standards. |

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| Focus for service |
| **Continuity of processing HIGH**  Resilience Testing of the system will take place to ensure data is not lost when an element fails or is inaccessible and that processing can continue when the ‘missing’ service is returned. |
| **Reliability HIGH**  The extent to which the system will provide the intended function without failing – without further requirements information based on intended traffic loads for the system it is difficult to elaborate beyond the fact that load testing will be performed. – to confirm the solution is scalable as more users come on board |
| **Portability HIGH**  The aim is to limit testing to running the application across as a variety of web browsers. – use of an application such as browser stack will allow this to be tested efficiently.  Consider of platforms and devices e.g Tablet, Phone, Android IOS etc. |
| **Performance HIGH**  I will use tools such as jmeter to measure the performance as more users access the system and further functionality is added in future iterations.  Make initial contact with the performance team to make use of their expertise. |
| **Usability MEDIUM**  User research/testing will take place to ensure look and feel is agreed by the business and customer base – confirm that the best solution is being delivered to the customer |
| **Operability MEDIUM**  Work with the development team to implement a CI solution for deployments to ensure a consistent deployment approach.  Work with services so that monitoring solutions can be put in place when the service is delivered into production.  This is an investigation. There is currently no desire to move the solution into Production. |