



Unlock:

QA metric report – iteration 2

Version 1.0

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1.Introduction

This report will outline the results from the QA Metrics for the end of iteration two of the unlock: york project. These metrics will show areas that might need improvements and allow us to assess the standard quality of the work being produced.

2.Finance Manager

2.1 QA Metrics

Metric	How Measured	Produced By	Date	Results & Remarks
Comparison between projected spend and real spend.	By finding difference between projected and actual spend. Expect under 10% difference	Thomas Talbot	6/6/18	Pleased with the difference between projected and actual spend. It shows a difference of £2934.29 which equates to a percentage difference of 5.43%. This passes the threshold test.
Updating projections to use up-to-date figures for forecast	By ensuring there is no risk bankruptcy in the company.	Thomas Talbot	6/6/18	Up to date forecasts show there is no danger of bankruptcy and we have an underspend so far.
Projected and actual hours worked are a similar	Checking workers timesheets and addressing any discrepancy.	Thomas Talbot	6/6/18	So far expected hours have been met, illness etc has affected this but these hours have been made up when possible. Slight decrease around exams however this can be rectified when people



				finish and are working towards deadlines.
Meeting Deadlines	Ensuring work is completed prior to the deadline.	Thomas Talbot	6/6/18	All deadlines have been met. 1x Financial Briefing 3x Financial Report 1x Financial Summary 1x Sales Presentation
Financial projections are checked through and correlated with current financial briefings.	Check and factor in all amounts to the bigger picture.	Thomas Talbot	6/6/18	Figures are sensible showing reasonable payback timescale for investors.
Considerations for future of the company	Consider future of the company when judging future strategy.	Thomas Talbot	6/6/18	Future of Unlock:York has been considered and shows good future strategy.
All financial requirements have been met as was set out by the financial advisor	No issues, confirmation of receipt of documents, feedback.	Thomas Talbot	6/6/18	All documents handed in on time and no issues flagged up.

2.2 QA Results

A slight underspend as been reported, this is with in limits and is documented in the financial breakdown, there are huge spikes in labour cost near the end of this iteration but this was to be expected and was unavoidable. No recommendations needed, everything seems correct as backed up by the evidence found in the financial reports.



3. Project Manager

3.1 QA Metrics

Metric	How Measured	Produced By	Date	Results & Remarks
Deadlines met	Project schedule against actual time deliverables have been submitted	Liam McMahon	7/6/18	Met - 4/4
Project requirements matching specifications	Number of project requirements that match client requirements against the number that don't	Liam McMahon	7/6/18	Match - 10/10 Don't match - 0/10

3.2 QA Results

Everything is on time and matching the client requirements, no further recommendation required, evidence found on the work break down structure and gantt chart along with the functional specifications. Some user stories had been moved to iteration 3 but this was amended on the gantt and work breakdown. Recommend finding the reasons behind this push back and make sure enough time has been allocated for the 3rd iteration to allow all user stories to be complete. All are correct and have been check against supporting documentation.



4. Marketing Manager

4.1 QA Metrics

Metric	How Measured	Produced By	Date	Results & Remarks
Brand Awareness	Feedback and the use of surveys	Ollie Martin	7/6/18	No further surveys taken for 2nd iteration
Customer Satisfaction	Customer Feedback	Ollie Martin	7/6/18	N/a Not relevant until product release
Market Share	How thorough the research report was	Ollie Martin	7/6/18	Met - 10/10 In depth analysis of competitors applications successes and failures
Digital Marketing research	How thorough the research report was and how strong the predicted digital marketing campaign could be	Ollie Martin	7/6/18	Met - 10/10 Social media marketing research carried out

4.2 QA Results

As there are no current customers, customer satisfaction metric is not relevant for this particular iteration, no surveys have been conducted for the 2nd iteration, none were scheduled but recommend further surveys for iteration 3 to enforce the project direction. Market share and digital marketing survey report has been thorough, further research in social media marketing was carried as recommended from iteration 2. Evidence found in the team shared documents for market research.



5. Lead Developer

5.1 QA Metrics

Metric	How Measured	Produced By	Date	Results & Remarks
Appropriateness of design for project goals	Assessment of functional specification	Lead Developer	6/6/18	Adherence to revised specification has been good. Minor design changes arising out of user-story workflow process.
Develop time	Planned time against actual time taken	Lead Developer	6/6/18	Development time has been inconsistent as developers have different levels of time pressures (exams, assessments, etc). That being said, we have not fallen behind.
Code consistency	Code standard compared to code being produced	Lead Developer	6/6/18	Code standard has departed significantly from style guide. Code generally fixed during code review although Android branch untouched due to having been moved to separate repository. This is probably critical for long-term maintainability and should be fixed with mandatory linting in git push stage.
Compiling errors submitted during development	Number of compiling errors or warning	Lead Developer	6/6/18	Changes to merge workflow and to gradle set-up have generally eliminated code errors. Code in branches now generally stable. Some



				errors routinely appear due to misplaced assets – the assets pipeline should be reviewed and resolved to fix this.
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Further Comments

- Now the team are more familiar with the tooling it would be worth introducing additional constraints: git message templates, automated testing / linting as part of push workflow, code coverage and continuous integration.
- Many problems encountered in managing two different codebases – the Android team had trouble using gradle in IntelliJ. Additional training should be introduced for gradle.

5.1 QA Results

The amount of development has definitely increased since the first iteration this is shown from the amount of code written, this has been explained with people getting more comfortable with the use of the repository and gradle system. The coding style standard has been deviated from majorly as deadlines approached, some of this has been rectified for the kiosk but not for the android app, the lead developer has made recommendations to fix this for future iterations, recommend the QA manager or the project manager help to enforce these style standards as to not cause serious issues in the future. The android team ended up working from a separate repository due to issues with gradle, the lead developer has recommended additional training to be conducted in order to fix this. This would be the sensible approach as it will help the lead developer easier access to all of the code being written, before the next iteration the two repositories should be merged.

6. Testing and Integration Manager

6.1 QA Metrics

Metric	How Measured	Produced By	Date	Results & Remarks
Errors and bugs fixed.	Documented on team member test report.	Jack Mckeown	06/06/18	Any errors flagged up in the testing process have been recorded on the testing reports. Errors have been fixed and now code passes tests.



Tests complete and plan followed.	Collect individual test reports from team members and monitor overall testing progress alongside plans.	Jack Mckeown	06/06/18	<p>Testers were much more heavily inclined towards visual tests on the kiosk side, with testing method chosen at the testers discretion.</p> <p>On the Android side, across Sub-Story and Integrated testing 51% of tests were Instrumentation (Android Unit Tests) and 49% were observational. 100% of the System tests for Android were visual tests as expected.</p>
Which individual parts tested and how?	Documented on all testing reports and plans.	Jack Mckeown	06/06/18	<p>The testing process and elements to be tested have all been recorded on the Final Testing and Integration plan which has been amended such that added tests for new sub-stories have been put in, and now irrelevant tests have been removed, and some shared tests reclassified as being only appropriate for Kiosk or Mobile. Actual tests carried out this iteration have been recorded on testing reports.</p>
Test outlines defined on Final Testing and Integration Plan vs Actual tests carried out.	Compare tests on plan with tests documented on reports.	Jack Mckeown	06/06/18	<p>A number of original tests from the Testing Plan had to be removed due to no longer being appropriate for kiosk/mobile app. A number of what were thought to be Shared Sub-Story tests were found to be only applicable to either the app or the kiosk.</p> <p>All possible (Sub-Story, Integration and System) tests are complete and with a very high pass rate.</p>

6.2 QA Results

Testing as been preformed well and is evidenced by the testing reports from the development sub teams. Its been reported that there has been a heavy dependence on visual tests this iteration, the use of unit tests for non GUI elements was discussed last iteration but as iteration 2 included a lot of GUI implementation the use of visual tests is valid and justified. Recommend relaying with the lead developer to ensure the appropriate use of visual tests and unit tests to be used when advisable. Evidence was found in the reports handed into the testing manager from the sub teams and the final testing reports.



7. GUI Developer

7.1 QA Metrics

Metric	How Measured	Produced By	Date	Results & Remarks
Design appropriateness	Verify that the design is appropriate for and meets the specification.	James Winters	05/06/2018	Code was first implemented (for both iterations) with placeholder material to be changed at a later date. When the change occurred to desired GUI, design was appropriate. Placeholder icons, sfx and images were removed and replaced with desired material to match updated design.
Deviations from original design during implementation	Compare implemented code with original plans	James Winters	05/06/2018	Design varied from specification as user stories were worked on. These variations refer to changes in the UI from the first iteration wireframe diagrams. Removing background images was necessary in some activities to prevent cluttering, icons and sfx changed to a more standard style. Colour scheme changed to White/Black/Gray. ImageActivity changed to full screen for a clean look, at the cost of some images with a certain resolution not being fully displayed.
Comments in code	Look at commenting in the code	James Winters	05/06/2018	Commenting in code was easy to read but fairly detailed. This includes commenting for tests I have written.
Errors	Make a note of any errors that occur during compilation.	James Winters	05/06/2018	Errors during compilation were noted and discussed with the testing manager. Some errors occurred not during the build/compilation process but



				during the running of the application on the Android phone itself. Most errors were due to Firebase Database/Storage, affecting content/user logins but error message itself only referring to null pointer exceptions.
Planned coding time vs Actual coding time	Record number of hours spent on GUI coding and compare with planned time.	James Winters	05/06/2018	Most hours recorded and timesheets updated to reflect and generally accurate. After updating projections for the second iteration, I still spent slightly more time actually coding than I had planned for the last few weeks.

7.2 QA Results

The GUI has developed during this iteration from its initial conception, these developments have been documented and discussed with the team. Coding for GUI in the android app has been conducted but with a different style of the kiosk app, this was reported by the lead developer as well, the same recommendations apply as has been discussed with the lead developer. Errors have been kept on top of as has been evidenced in the code, overall GUI has been managed well and only recommend enforcement of the style standard.

8. QA Manager

8.1 QA Metrics

Metric	Method of calculation
Documents delivered on time	Documents do appear to have been submitted on time with no exceptions
QA metrics being met	QA metrics are being met within expected parameters, recommendations have been suggested to fix any problems or to improve the next iteration
Deadlines for product development	All deadlines for the products development have been met and fulfilled so far, some user stories have been pushed back to iteration 3 but have been valid and discussed with team members