Inception Phase Status Assessment

1. Assessment against Objectives of the Inception Phase

1.1 Do we know what we are trying to achieve?

The aim of the project is to bring an online presence to local / small cafes like university cafes. This is embodied in the completed Vision Document.

We understand the main functional requirements of the project which are:

- Create account
- View account
- Sign in
- Sign out
- View loyalty reward balance
- View favourite order
- Delete favourite order
- Search menu
- View menu item
- Fill cart
- Empty cart
- View cart
- Place an order
- Book delivery
- Book pick-up
- View order
- Apply student discount
- Apply loyalty reward
- Add favourite order
- Book a table
- Edit table booking
- View active order
- Fill order
- Book a table
- View table booking
- Search table booking
- Delete table booking
- Edit table booking
- Add menu item
- View menu item
- Search menu item
- Delete menu item
- Edit menu item
- Book an event
- View event
- Search event
- Delete event
- Edit event
- View inventory
- Update inventory
- Delete inventory item
- Add inventory item

This is shown in the completed Functional Requirement model embodied in the Use Case model.

We understand the main Non-Functional requirements of the project which are:

- Usability
- Availability
- Security
- Reliability
- Audit
- Integrity
- Compatibility

This is shown in the completed Non-Functional Requirement model embodied in the NFR specification document and the NFR checklist.

1.2 Do we know how we are going to achieve it?

We have a good idea of how we are going to achieve our aims. We are going to use a Three-Layer architecture which utilises a user interface layer, a business layer and a database layer which requests made by a user are sent through starting from the top layer (UI layer) and going through the other 2 layers and returns to the top layer to give feedback to the user. This is shown in the completed the Candidate Software Architectures document and Architecture Notebook.

We have a good understanding of the project specific risks facing our project and how we are going to deal with them. The risks are:

- Lack of project sponsor
- Coronavirus
- Team member (Jake) has a 5 subject commitment
- Lack of required knowledge and skills in the project team members

Our evolving understanding of risks is shown in the ongoing risk list and discussed further below in Section 4.

We have a good understanding of how we are going to check that our application delivers the intended functionality and system properties. Our key areas of concern and the test strategies we will use to address these concerns are as follows:

- Usability: Static Review, Functional Acceptance Test, User Acceptance Test and System Test
- Security: Static Review and Functional Acceptance Test
- Place an Order: Static Review, Unit test, Integration test, Functional Acceptance Test and User Acceptance Test
- Account Creation / Login: Static Review, Unit test, Integration test, Functional Acceptance Test, User Acceptance Test
- Menu Items (manager): Static Review and Functional Acceptance Test
- Fill order (staff): Static Review, Integration test and Functional Acceptance Test

This is shown in the completed Master Test Plan

We have a good understanding of the dependencies and likely completion times for different parts of the project. Target completion dates for key aspects of the project are as follows:

Elaboration Phase:

- Elaboration 1: 13/04/20 - 26/04/20

- Elaboration 2: 27/04/20 - 10/05/20
- Elaboration 3: 11/05/20 - 24/05/20
- Elaboration 4: 25/05/20 - 05/06/20

Construction Phase:

- Construction 1: 13/07/20 - 26/07/20
- Construction 2: 27/07/20 - 09/08/20
- Construction 3: 10/08/20 - 23/08/20
- Construction 4: 24/08/20 - /06/09/20

Transition Phase:

- Transition 1: 07/09/20 - 20/09/20
- Transition 2: 21/09/20 - 04/10/20
- Transition 3: 05/10/20 - 16/10/20

This is shown in the Initial Project Plan.

1.3 Skills required

Our project requires skills using the following key tools and technologies:

- Android Studio
- XAMPP
- Coding in Java, php and might require knowledge of Kotlin
- SQL
- Git

We have demonstrated that we have the skills to use these technologies through the implementation of a technology competency demonstrator.

2. Deliverables

2.1 *Project Vision.*

- Explains the vision of the project.
- Explains the problem that Beverage Booker solves.
- Explains Stakeholders involved.
- Explains some product requirements and characteristics.

No Issues.

2.2 *Initial Requirement Model.*

- Uses Use-Case models, a domain model and NFRs to explain the requirements needed for the project to succeed.
- Explains Use-Cases with descriptions and shows how they interact with one another.

No Issues.

2.3 *Proposed Architecture.*

- An Architecture Notebook that explains the architecture behind the software, the how and why it is used.

No Issues.

2.4 *Risk List.*

- Explains risks of the project.
- Demonstrates how the team will either mitigate risks during the project.

No Issues.

2.5 *Master Test Plan.*

- Explains tests required to test aspects of the project.
- Explains what tests will be used to text what components.

No Issues.

2.6 *Initial Project Plan.*

- A detailed plan on what should happen during the project and when it will occur.

No Issues.

2.7 *Technical Competency Demonstrator.*

- An example of what the team can do while working together
- A simple program to demonstrate understanding of required skills needed in the project.

No Issues.

2.8 *Inception Phase Project Status Assessment.*

- A document overviewing all the progress made during the Inception Phase of the project.

No Issues.

3. General Issues

3.1 *Revision on previous subjects to complete deliverables*

Some deliverables required more revision than others and it slowed down progress for a little.

This is a resolved issue.

4. Risks

4.1 *Lack of project sponsor*

The sponsor is an important part of our project to learn and understand what a realistic experience working with a stakeholder is like. The best mitigation strategy is to accept that the sponsor might not agree or not be able to agree to help us with our work. This means we have to roleplay as the sponsor to still have critical feedback on our project that a stakeholder would provide. This is a resolved risk as the team is roleplaying as the sponsor and providing critical and fair feedback as if they were the stakeholder themselves.

4.2 *Coronavirus*

The Coronavirus is hard to avoid risk and can put the team behind on work very fast if members become infected. The risk is ongoing and team members are keeping safe and if one is to become infected and unable to work on the project, their workload will be given to a team member who can handle the load or who has completed their current work. This

strategy doesn't mean the work will be completed on time but is better than leaving it unfinished.

4.3 *Team member (Jake) has a 5 subject commitment*

Jake has a large workload in reference to having 5 subjects for the first session of 2020. This impacts his efficiency with completing work items under his name and can put the entire team behind. The issue is ongoing and has to be monitored. At signs of Jake falling behind the team will split his work so that he can focus on enough to still get a passing grade but also to not slow the team down.

4.4 *Lack of required knowledge and skills in the project team members*

The risk of not having the skills to program the application can prevent progress on the project by a large amount of time. The best strategy to deal with this is having the team communicate their coding knowledge collectively if anyone gets stuck on an issue to solve it together and get more perspectives on the issue. As soon as the issue is solved the team can get back to work. If the issue remains unsolved it can prevent the completion of the project.

5 Summary – Overall Project Progress

The progress of the project meets aims of the Inception Phase as we completed all Primary objectives described in the project plan. All deliverables were pushed to master on the repository and linked in the LCOM page of the wiki to be assessed. There are no ongoing issues that are currently affecting the team, however risks that are ongoing are being monitored and are being dealt with if triggers are met.