Project 3

**Group Processes**

**How well did your group work together in Assignment 2? Will you be introducing any changes in process for Assignment 3? This is new for this assignment.**

Overall the group worked quite well together during Assignment 2. To begin with the only active members were Stanton, Jenna and Samuel with the late addition of Cooper. Unfortunately, there was very little communication from Lyly (who was also a late addition. During the entire Assignment 2 duration there was no communication from Garfield, Rhys, Thomas and Michael (also a late addition).

For the active members, we all seem to get along well and communicate effectively. I only recall 1 instance of a miscommunication, right at the end of the assignment period. The work completed was distributed relatively evenly and all members contributed to making group decisions.

The biggest challenge was having 3 non-active group members being replaced with 1 active and 2 non-active group members. With the constant waiting for responses, we found we delayed progress on the assignment meaning we did need to cram a small bit of work towards the end – though it was nothing we didn’t feel we could achieve.

For Assignment 3 we have a much clearer understanding of our schedules meaning organising meetings and the like can be a bit easier. We aim to create a project timeline including task delegation to try and achieve set work to be completed by each member target times. This should enable us to be better organised and keep track of who has done what along with what still requires completion, allowing any member to step in as required with clarity and transparency.

**Career Plans**

**Compare and contrast the career plans, including ideal jobs, for each person in the group. This may have changed due to feedback from Assignments 1 and 2. What common elements are there, if any? What differentiates each position from the others, if anything? How similar or different are your career plans across the group? This is new for this assignment.**

**Tools**

**As in Assignment 2, you need to have a group website and a GitHub (or similar) repository for your group. In your report you should include a brief description of what you have done, and include the following: - The link to your group’s website - The link to your group’s Git repository (GitHub, BitBucket, etc) - Your comments on how well the audit trail on the Git repository reflects your group’s work. You will presumably only be able to do this close to the time of submission.**

**Project Description**

**Having completed both Assignment 1 and Assignment 2, you will have thought about a personal project as well as one with your group. In this Assignment you are to come up with a plan for group project, and to develop it as much as possible in the time available.**

**Naturally you will be very unlikely to complete your project; in fact, most worthwhile projects are “endless”, in that there is always more that you can do, more features to be added, more levels to be designed, or new devices that could be used.**

**Naturally the choice of what to do is up to you, but you should take the following into account when making your decision.**

**- The passions, interests and skills of your group**

**- IT industry trends**

**- What would assist you in your career plan**

**- Feedback from Assignments 1 and 2**

**Your group will have developed some ideas in Assignment 2; it is fine to build on and refine these for this assignment, or to develop a new project based on feedback and/or what you have learned since.**

**Overview**

**Topic**

For our idea we will be revisiting the Assignment 2 idea – Project Frecepie. This project aims to solve the indecisive issue of what to cook for dinner when you’re feeling lazy, can’t think of any recipes or perhaps even just looking for something new to cook with what you have. The project aims to develop a mobile and desktop app. The biggest focus is integrating with smart fridges and utilising their technology for the simplest experience with the app.

As Smart fridges are becoming more and more popular and affordable, it won’t be long until most average households have one. Even if you don’t have one, most people have a smart device like a phone or tablet, all of which have cameras attached. The App aims to utilise this technology and integrate with smart fridges to work out what you have in stock and match that up with recipes that won’t require any additional purchases.

<https://en.wikipedia.org/wiki/Smart_refrigerator>

**Motivation**

The motivation behind the project comes from the lack of productivity and general excessive costs involved when you can’t decide or work out what to cook with the items you have at home. I feel we have all stared into the fridge at one time or another for the 400th time, trying to work out what you can cook with the items you have, only to return 3 minutes later to check again – and probably end up ordering takeout.

A big motivator other than helping to create is reducing wastage. If the app can help people use more of what they have then they’ll spend less in the long run whilst reducing the amount of wasted food items which is more beneficial for the greater community and world.

**Landscape**

Most smart fridges with built in screens and cameras already do a lot of what our project aims to do – however we’ve not been able to locate another product that provides the same end goal or outcome than Frecepie.

Similarities are;

* Stock control – including description and quantity.
* Recipe suggestions – though it seems existing ones recommend recipes in general – not tailored to your stock exclusively – our app will also do this should there be no hits using only what you have.
* Multi device compatibility – smart fridges allow you to view the cameras on other devices like your phone and the smart fridge apps are also (assumed to be) available.

The biggest point of difference is working out what to cook **using what ingredients you already have *without* purchasing anything additional**.

**Detailed Description**

**Aims**

The aim of Frecipe is to create a mobile platform that helps simplify meal choices.   
To do this we will make use of current technologies to enable smart scanning via video/photo of your fridge contents to create a database containing a stock list and compare that against a database of recipes. If utilising smart scanning is not something the user can do, manual input will also be available. This innovation will help people to utilise more of what they have and reduce food wastage.

Smart scanning technology (where the app can identify items including quantity via the devices camera) allows simplified use which means the user spends less time updating their inventory and more time doing things they enjoy.

Having a separate database for both the items in inventory (or stock) and the recipes allows quick referencing and lookup for a fast comparison of one list with the other.

**Plans and Progress**

Frecipe will require several key components;

* Database (mySQL)
* UX/UI design
* Security

**Skills and Jobs**

**Senior Software Engineer (in progress)**

Frecipie is looking for a passionate, highly skilled Software Engineer to join us in the creation of a life changing mobile platform! You will be building our software from the ground up and will be responsible for the constant evolution and delivery of new and existing features, direct system testing and validation of procedures. You will have outstanding communication skills, being able to seamlessly collaborate cross functionally within an agile environment.

Responsibilities

* Research, designing, creating and architecting an Android application and accompanying website
* Writing clean, continuously tested, reusable code
* Work within a collaborative, cross-functional team environment (frequent interaction with UX designers, business/marketing manager etc.)
* Documentation and guideline write-ups (technical & non-technical)
* Provide critical feedback and recommendations on user interface and design decisions

Skills

* Android Development (Front and Backend)
  + Java + Kotlin
  + Android Software Development Kit (SDK)
  + Database expertise: SQL, RDBMS
* Experience in/with:
  + Version Control (Git, bitbucket etc.)
  + Agile environment (Jira, Sprints)
  + Cloud services (AWS, Azure, etc.)
  + Deployment tech (e.g. Docker, Ansible)
  + Database development and management (e.g. MySQL
* DevOps mindset, extensive experience with CI/CD
* Experience with TDD/BDD
* Knowledge of Linux/Unix systems
* TCP, UDP protocol
* Stellar communication skills
* Continuous learning and upskilling is a necessity

Experience & Qualifications

* 3+ years’ experience in software engineering/development
* Bachelor degree in Computer Science/I.T/related field of study
* Portfolio

**Senior UX Designer (in progress)**

Frecipie is seeking highly experienced and creative UX Designer to create and deliver an exceptional digital customer experience for an innovative mobile app and accompanying web application. You will coordinate

Responsibilities

* Develop compelling user interface designs to deliver an exceptional digital experience
* Sight and delivery of vision, product roadmap
* Create and flexibility and continuously evolving design artefact
* Document key processes for retainment of internal IP
* Facilitate design and user experience workshops/sessions to collaborate with senior developers, business analysts, etc.
* Research, collect and analyse relevant data, using quantitative and qualitative reasoning to demonstrate insights, outcomes, successes

Skills

* Experience building, delivering and evolving successful design operations and systems
* Experience working in a collaborative, cross-functional team environment (frequent interactions with software developers, marketers etc.
* Customer Journey Storyboarding, creation
* Up to date with current UI+UX trends and technology
* User flows, user stories
* Wireframing & prototypes
* Strategic customer-focused approach
* Working with Sketch and Figma
* Web and mobile application experiences across multiple platforms
* Negotation and problem solving skills, outstanding communication skills

 Experience and Qualifications

* 3+ years of customer focused digital UX experience, involved in the hands on development aspect
* Strong knowledge of frontend technologies (HTML, CSS, JavaScript etc.)
* Proven experience in design projects

**Senior Business Analyst & Marketing Specialist (in progress)**

Frecipie is searching for an exceptional Business Analyst to drive

With your extensive network.

Responsibilities

* Leading the overall business and marketing strategy
* Analyse and validate requirements for establishment of business procedure, policies, systems and information
  + Conduct root cause analysis
* Manage key stakeholder relationships
* Support testing and implementation process to ensure successful outcomes for business and technology solutions

Skills

* ExtensiveBusiness development and sales experience
* High level of computer and technological skills (Microsoft office, management systems)
* Salesforce
* Outstanding communication
* Analytical and problem solving skills

 Qualifications

3+ years,

Business and/tech related tertiary requirements

Six Sigma certification (Green Belt) desirable

**Cyber Security Architect (in progress)**

Frecipie is

Responsibilities

Develop and implement security strategy and architecture

Create detailed security requirements for project and business initiatives

Track emerging technological threats

Clearly communicate security concerns, risks

Skills

Qualifications