

IT Project Sprint 1

Team ctrl

Aug 2019

1 Introduction

This is a summary of what has been done during sprint 1 for team ctrl. Essentially, we need to build an application for client(s) to store their family artifacts in the registry. We settled on Kevin (and his family) as the client, thus we chose to build an Android app (since Kevin uses Android device). Below is a documentation of progress for sprint 1.

2 Technology Stack

Category	Tool
Design	Sketch + lanhuapp
Communication	Slack + WeChat
Managing	Trello
Repository	GitHub
Back-end	Firebase
Front-end	React Native
Database	Firebase

Table 1: Technologies

3 Client Requirement

3.1 Client Information

A personas is built for a reference to client information. See figure 1 to 3.

3.2 User stories

User stories are listed below. Each section corresponds to an epic. Note that in sprint 1, one story point corresponds to approximately 8 hours of work. Story point will be abbreviated to SP below.

3.2.1 Login System

- As the main user, I want to be able to create an account, so that registry information can be properly stored. (Therefore there needs to be a landing page with signup features. Each family has a main account and he can perform all actions when in need.) **Already implemented UI, proposed finishing date: backend in 3 SP.**

- As the main user, I need to be logged in at all times so that my personal details will be kept. Login methods can be email and password. I think Facebook/Google login is not needed. (We will implement login feature for users to log in with email and password.) **Already implemented UI, proposed finishing time: backend in 3 SP.**
- As the account holder, I wish account security to be properly handled to avoid privacy issues or dangerous actions. (It is essential to have security setting, e.g. password is hashed, and account setting is needed.) **Deadline same as above**

3.2.2 Family Generation Homepage

- As a user, after login, I hope to have a direct and clear view of all my family members so that I can check each member with ease. **Second high priority, proposed finishing time: 4 SP.**
- As a user, when clicking on each member, it should guide me to the family member's own profile to make the application more user-friendly. (We need a profile page for the main account and one profile per family member.) **4 SP**
- As a user, I wish to modify family generation by adding members quickly. (An edit button will allow user to add a new generation or add a member in existing generation. A guide will be made for easy upload of members.) **High priority, done in approx. 3 SP**
- In the homepage, I wish to go to community and profile quickly, since they are two most important features. **Navigation already done**

3.2.3 Register

- As the client, we (Kevin and his family members) want to share artifacts to people not using this app, so they can be attracted and use together. (A sharing feature allows sharing items via social media or links.) **Side feature, low priority. Will be added later if we have time.**
- As the client, I want to use this app for a long time and passes down generations, hence I want to be motivated to log artifacts. (Achievement system can reward client and motivate them. There will be badges related to family milestone, community etc.) **In development, third high priority, approx. 4-5 SP.**
- As one of the family member, I want myself to have my own registry so it won't be a mess. This means each family member has a separate page for register and item storage. **First priority, work in progress, hope to finish in 3 SP.**
- As one of the family member, I desire a good registry categorisation for easy lookup. Hence registry needs to be divided into text, video and images. Each item will contain a variety of metadata, including description, logger, location etc. A quick user guide will guide user through an easy upload process. **TOP priority, ddl. 2 SP.**

3.2.4 Community

- As the client, I want a community so everyone using this app can share what they had in registry. There will be a community with anonymous posts on artifacts and a commenting area for communication. **Almost done, backend in 3 SP.**
- In the community, I want to share my artefacts conveniently and quickly to save my time. (There will be a button to add artefacts from your registry directly, as a form of image. Quick guide will be provided.) **First priority, work in progress, hope to finish in 3 SP.**

- As the client, I want the community to be simple to use and concise. Specifically, with each item in community, there should be an image, its upload location, description and number of likes it has. I can like it and make comments. I can also "cross it out", going to the next artefact. **UI already completed, backend in 3 or 4 SP.**

3.3 Evidence of requirements collection

Since Kevin's family is native Chinese, we used WeChat to connect with them and had a chat with our client on the current UI design and how satisfied he was on features so far. The conversation was logged and can be viewed on Miley's phone.

4 Development

4.1 Prototyping

This can be viewed on lanhu or sketch.

4.2 Repository Management

We used branching and pull requests to manage repository, so that possibility of conflicts can be minimised. More information is listed here.

5 Database Schema

Database was already set up and had a few sample data inside. For schema, this can be viewed on: Github

6 System Architecture

Will be assessed in week 7 so still in development.

Kevin Xu



age: 22

residence: Melbourne, Australia

education: Bachelor's of Science

occupation: CS Student

marital status: N/A

Good analytical skills are essential.

Kevin and his family requires an Android application that can record their artefacts and a registry where they can view and add new items. The app can ideally help his family collect items which have specific memory tied to some family members and pass down generations.

Comfort With Technology

INTERNET



SOFTWARE



MOBILE APPS



SOCIAL NETWORK



Criteria For Success:

Build software comprehensively with efficiency.

Needs

- User-friendly design
- Handy to use
- Will not lose interest during using the app

Wants

- Place to share artefacts
- Account and achievements
- And so on...

Values

- High usability
- Sharing

Fears

- Failure
- Finish after deadline

Figure 1: Personas - Kevin

Hua Xu

age: 49

residence: China

education: Bachelor's

occupation: Investor

marital status: Married



Price is what you pay. Value is what you get.

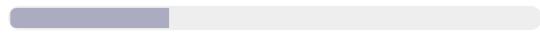
Kevin's father worked as an individual investor for more than 2 decades. His main interest is stock market and always loves reading books. He has many hobbies, including snooker and travelling.

Comfort With Technology

INTERNET



SOFTWARE



MOBILE APPS



SOCIAL NETWORK



Criteria For Success:

Make Long-Term Investments Over Short Term Ones.

Needs

- Has little knowledge of using mobile apps so a user-friendly page
- Quick and simple guidance

Wants

- Good living environment
- Nice family time
- Stable financial market
- Spend time with the elderly

Values

- It's Easier to Look Back Than to Look Into the Future
- Always be kind

Fears

- Nothing really fears him

Figure 2: Personas - Kevin's father

Hui Pan

age: 49

residence: China

education: University

occupation: Consulting

marital status: Married



A simple lifestyle is more important than anything else.

Kevin's mother worked at a consulting firm for Human Resources for more than 10 years. She is keen on baking and always keeps an eye on hot issues around the world.

Comfort With Technology

INTERNET



SOFTWARE



MOBILE APPS



SOCIAL NETWORK



Criteria For Success:

Make yourself competitive, speak out!

Needs

- Shows family life together
- Share her works

Values

- Get Around the Right People
- Do What You Love

Wants

- Harmonious family
- Be lucky

Fears

- Death
- Less time with kids

Figure 3: Personas - Kevin's mother



Figure 4: Chat History

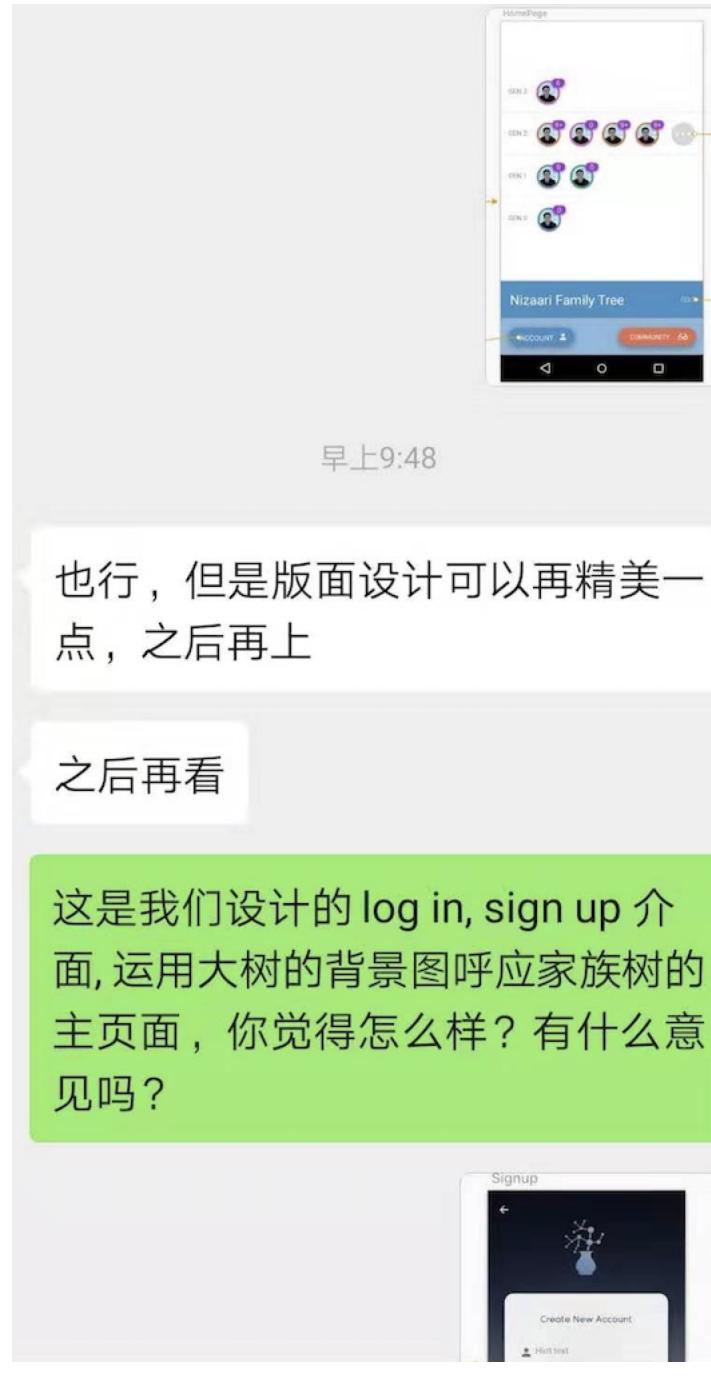


Figure 5: Chat History

看着不错，之后安卓上实现了我再看一下。

Registry 方面你们设计是什么样的

Registry 设计了两种版面，一种是类似淘宝的简单模式，还有一种是比较美观的瀑布模式。你有什么看法？

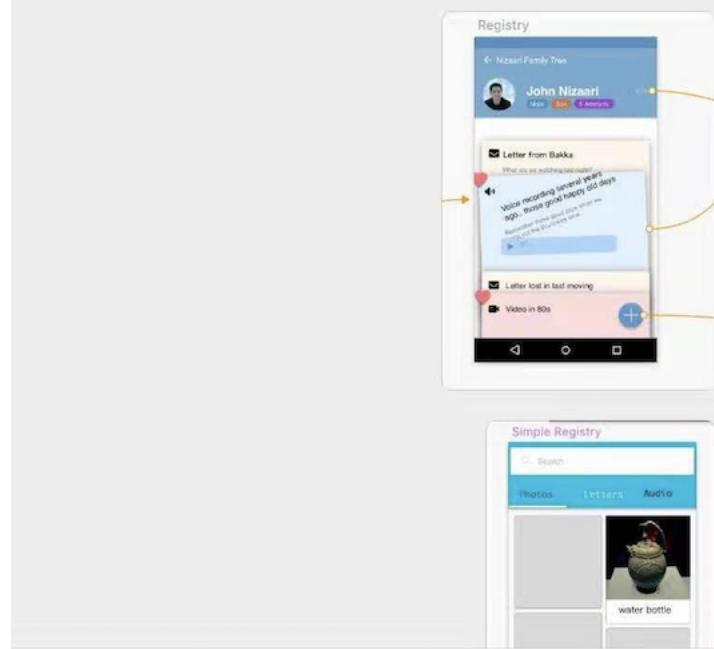


Figure 6: Chat History



Figure 7: Chat History