4.1 Personas(6):

Our main target participants are the young people whose age is under 30(not inclusive). The three questionnaires can classify users into six main categories

1. Young people with introverted character and not having sufficient experience with the Covid-19 restriction.
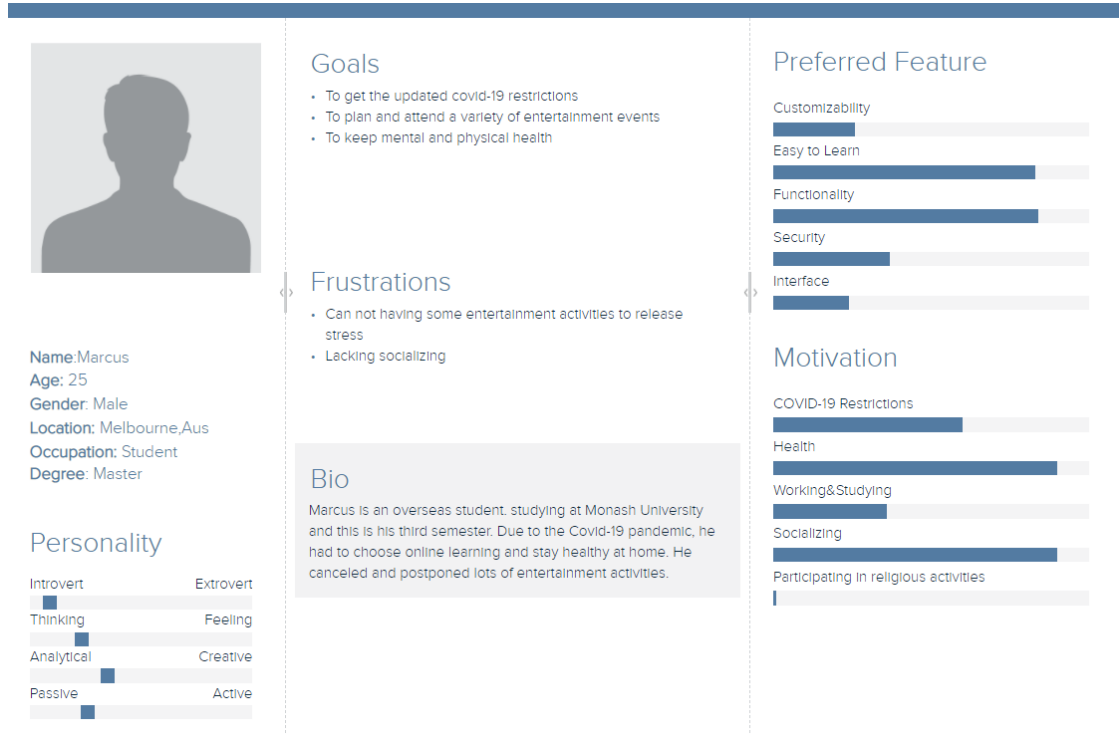

Goals
- To get the updated covid-19 restrictions
- To plan and attend a variety of entertainment events
- To keep mental and physical health

Frustrations
- Can not having some entertainment activities to release stress
- Lacking socializing

Bio
Marcus is an overseas student. studying at Monash University and this is his third semester. Due to the Covid-19 pandemic, he had to choose online learning and stay healthy at home. He canceled and postponed lots of entertainment activities.

Name:Marcus
Age: 25
Gender: Male
Location: Melbourne,Aus
Occupation: Student
Degree: Master

Personality
Introvert — Extrovert
Thinking — Feeling
Analytical — Creative
Passive — Active

Preferred Feature
Customizability
Easy to Learn
Functionality
Security
Interface

Motivation
COVID-19 Restrictions
Health
Working&Studying
Socializing
Participating in religious activities

Figure 4.1

2. Young people with extroverted personalities and having some negative effects during the Covid-19 pandemic.

Goals
- To create my own account and building my own preference to attract something that I prefer.
- Want to add all planning events to the calendar and keep everything be orderly.
- Get the news about Covid-19.

Frustrations
- Worry about the security of the application, fear of self information be disclosed.

Bio
Fiona is a business graduate student. Since the Covid-19 epidemic, she has worried about her health. She chose to return to her motherland. She hasn't experienced any Covid-19 restrictions.

Name: Fiona
Age: 24
Gender: Female
Location: China
Occupation: Student,Part-time job
Degree: Master

Personality
Introvert — Extrovert
Thinking — Feeling
Analytical — Creative
Passive — Active

Preferred Channels
Customizability
Easy to Learn
Functionality
Security
Interface

Motivation
COVID-19 Restrictions
Health
Working&Studying
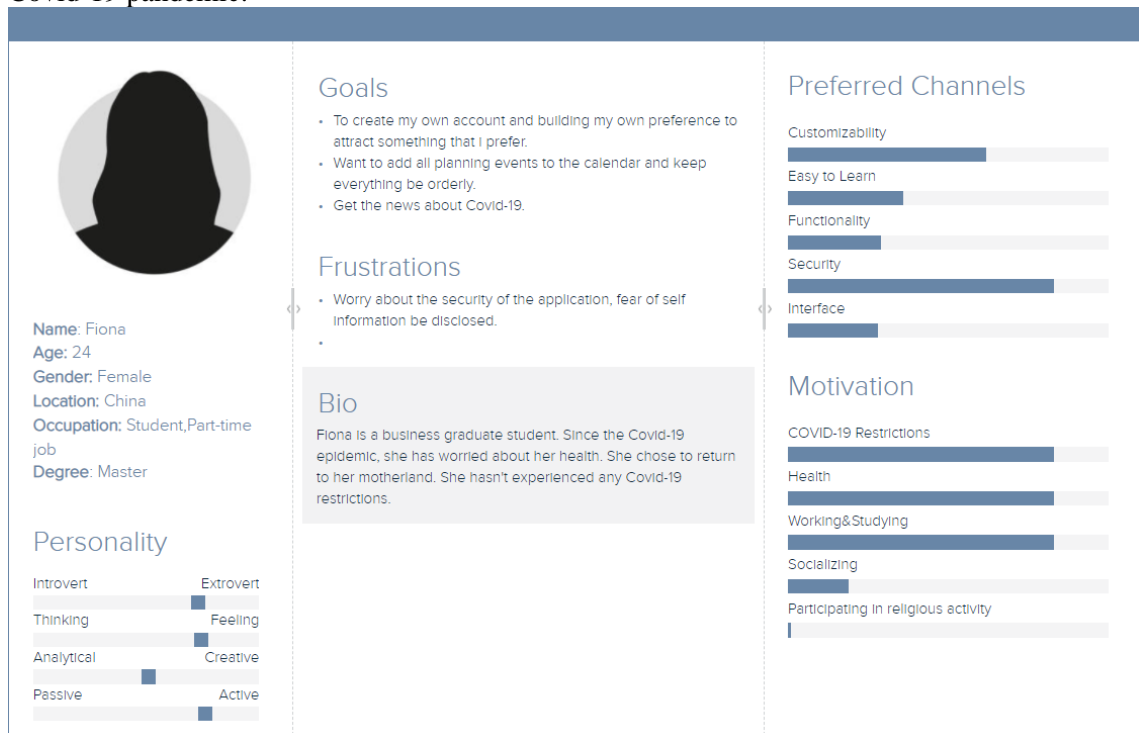Socializing
Participating in religious activity

Figure 4.2

3. A young student who loves outdoor activities. (Cannot attend school and go outside due to the restrictions of COVID-19.)
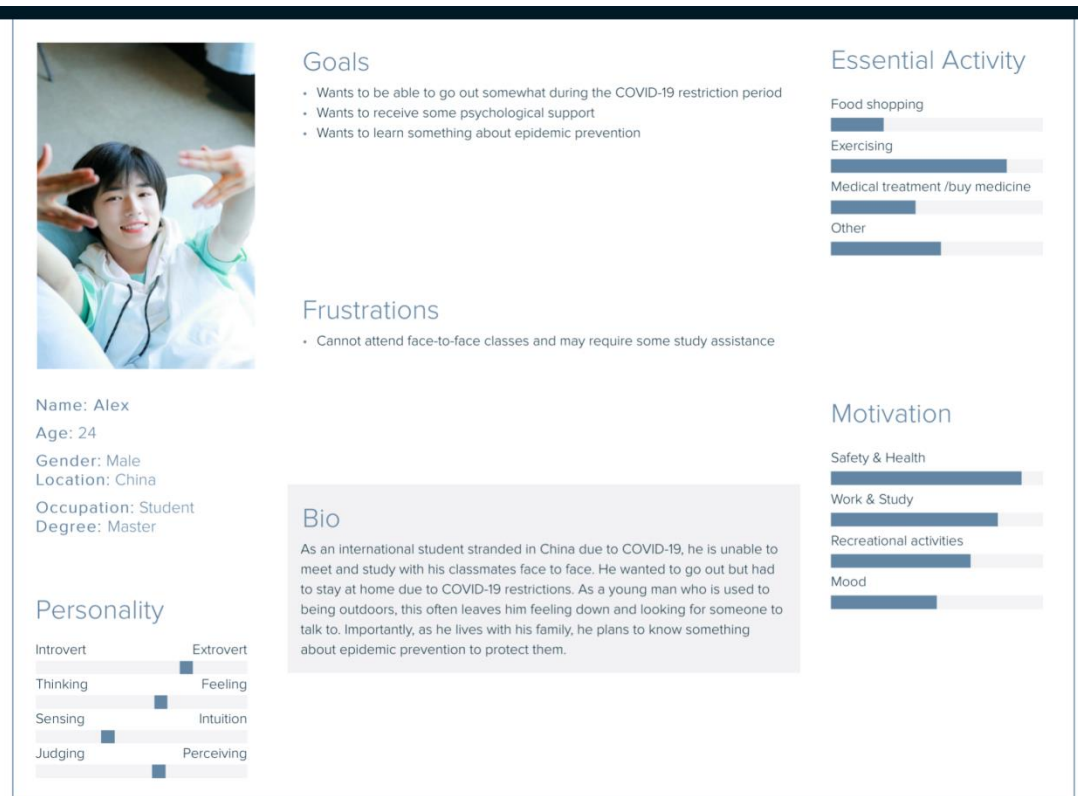
Figure 4.3

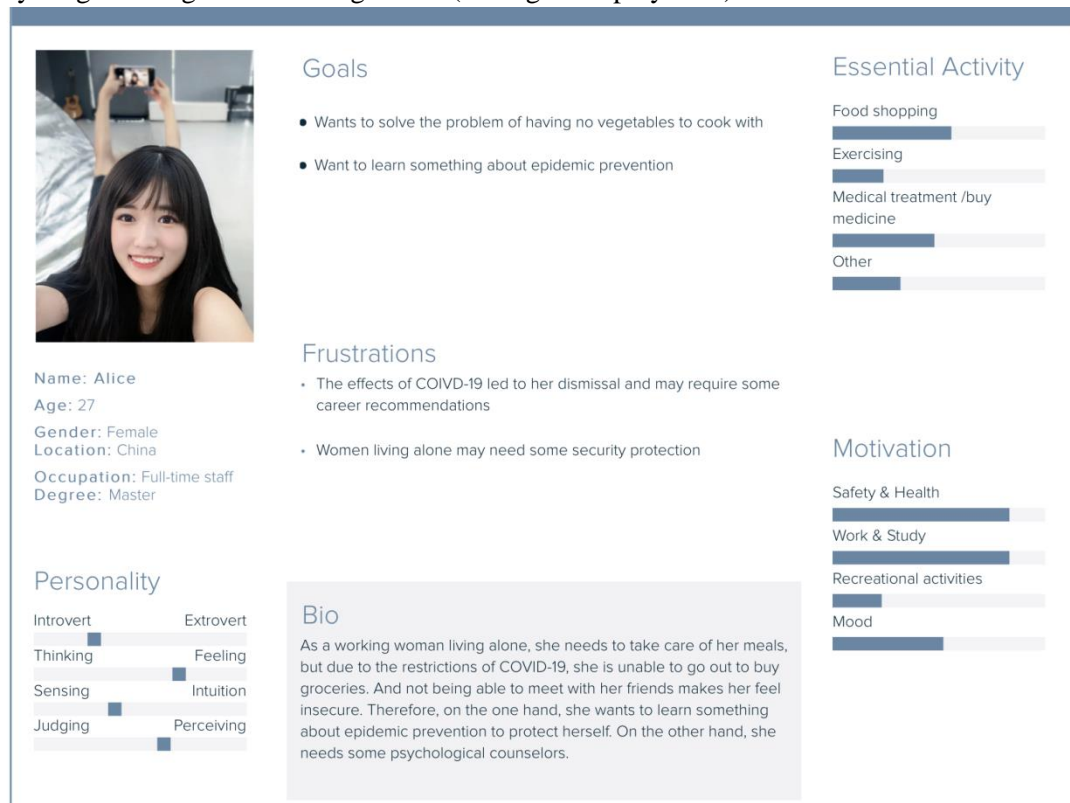4. A young working woman living alone. (Facing unemployment)

Figure 4.4

5. Students studying abroad choose to stay in the country they go to for university.
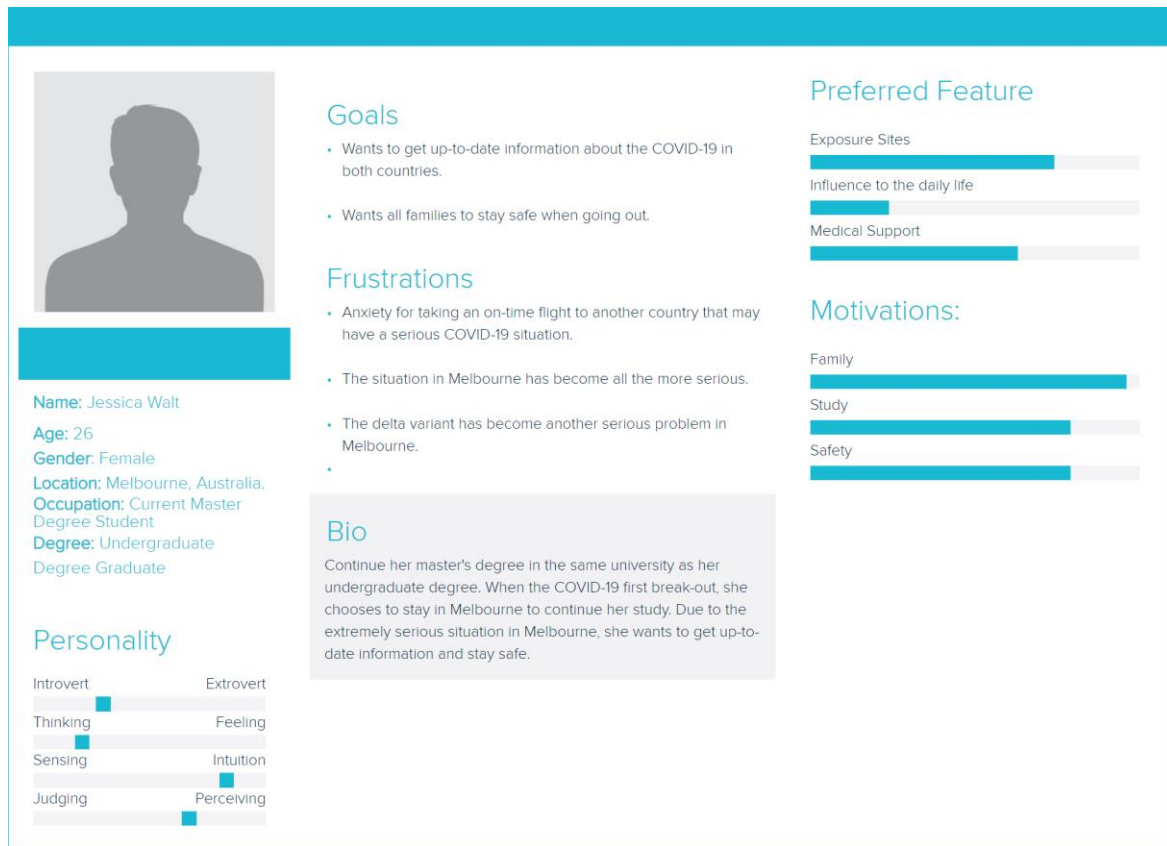
Goals
- Wants to get up-to-date information about the COVID-19 in both countries.
- Wants all families to stay safe when going out.

Frustrations
- Anxiety for taking an on-time flight to another country that may have a serious COVID-19 situation.
- The situation in Melbourne has become all the more serious.
- The delta variant has become another serious problem in Melbourne.
-

Bio
Continue her master's degree in the same university as her undergraduate degree. When the COVID-19 first break-out, she chooses to stay in Melbourne to continue her study. Due to the extremely serious situation in Melbourne, she wants to get up-to-date information and stay safe.

Preferred Feature
Exposure Sites

Influence to the daily life

Medical Support

Motivations:
Family

Study

Safety

Name: Jessica Walt

Age: 26
Gender: Female
Location: Melbourne, Australia.
Occupation: Current Master Degree Student
Degree: Undergraduate Degree Graduate

Personality
Introvert — Extrovert
Thinking — Feeling
Sensing — Intuition
Judging — Perceiving

Figure 4.5

6. First year new student to the university in China.

Goals
- Wants to get information on the restriciton on the medium-scale or large-organized activities.
- Making new friends in the university and hang out with them.

Frustrations
- The rebound of the COVID-19 situation makes the outdoor activities seems has the potential to get infected.
- Too excited to get start with the campus life.

Bio
As a first year undergraduate student, he is excited to start his campus life by living in campus dormitories. This is the first time of him to live without parents, meanwhile entering the university makes him cannot wait to make new friends.

Preferred Feature
Chatting

News or Event

Social Activities

Big Data Statistics

Motivations:
Family

Study

Safety

Name: Jeffrey Nelson

Age: 18
Gender: Male
Location: Nanjing, China
Occupation: First-year University Student
Degree: High School Degree Graduated

Personality
Introvert — Extrovert
Thinking — Feeling
Sensing — Intuition
Judging — Perceiving

Figure 4.6

4.2 User stories(15):

Must:

1. As a user, I want to get some hints about Covid-19 restrictions when I plan the activities, so that I can successfully create a new activity.

Justification:

The application is used to help users to plan and book activities during covid-19 restrictions. Therefore, providing restriction rules is a necessary function for this app. So this requirement could be Must.

2. As Alice, I want to watch some daily news so that I can grasp the information I need.

Justification:

Providing news and information is a fundamental feature of an application, which is necessary and easy to implement. Therefore, this requirement can be Must.

3. As Jessica, I want to login to my account in the mobile application, so that I can get the up to date information on the latest COVID-19 situation for the region I have chosen.

Justification:

This application refers to the fundamental functionality of system login, then the users can get information about the current up-to-date situation on the COVID-19. This should be a Must.

4. As Jeffrey, I want to get the latest restriction on holding activities both indoor and outdoors, so that I can plan to organize an activity to meet my social needs of meeting friends.

Justification:

This application refers to the prerequisite requirement on the travel distance limits and curfew time and the restriction on the number of visitors for the activities, so that users with such information can decide what, whether and how to organize an activity. This should be a Must.

Should:

5. As a user, I want to add my activities to my calendars, so that I can prevent missing the activities.

Justification:

The application aims to facilitate the planning and booking of events and activities. With the booking activities, calendar and reminder functions should be included if possible. So this requirement could be Should.

6. As a user, I want to create my profile with preference on types of activities, so that I can easily find more entertainment activities which match with my interest.

Justification:

This function provides a simple way for users to retrieve more useful information. It would enhance the performance of the application. If it is possible, developing this requirement is beneficial. So this requirement could be Should.

7. As Alice, I want to solve the problem of going out to buy groceries so that I can secure my diet.

Justification: Eating and drinking is an issue that people must address; in fact, more than half of the people in the survey see grocery shopping as a required activity. Therefore, this requirement can be Should.

8. As Alex, I want counseling services that help me relieve the stress and bad feelings caused by COVID-19.

Justification: Many of the samples in the survey indicated that they needed counseling or diversion. And it is feasible and necessary to apply software to hire experts in psychology to help them. Therefore, this requirement could be Should.

9. As Jessica, I want to know if the lockdown policy or curfew policy has been dropped, so that she can plan to take a walk outside the house.

Justification:

This application refers to the further government policy which aims to help with dealing with the COVID-19 situation, with the status of these policies, users can plan their outdoor walking or purchasing for daily needs within the compliance. This could be a Should.

Could:

10. As a user, I want access to see all the participants of events in detail, so that I can decide whether I prefer to join or not.

Justification:

The main aim of the application is to help users to access the activities in their community. Displaying and recording activities is the fundamental requirement for this application. For this requirement is not necessarily to be achieved and it only be implemented if time permits. So this requirement could be Could.

11. As Jessica, I want to add activities or events to my calendar with a notice of the health condition of the attendees, so that I do not need to worry about being infected or not by attending the activity.

Justification:

This application refers to the sub-function under the calendar, which will pop up information for users to acknowledge for the visitors who also will attend activities they are planning to attend(when adding to the calendar). This could be Could.

12. As Jeffrey, I want to know if there are any instructions on when and where to wear a mask for safety, so that I can stay safe and have self-protection.

Justification:

This application refers to the notice of users to decide whether and where they should put their mask on when going outside with the purpose of self-protection. This could be Could.

Won't:

13. As a user, I want to set the status of activity to public or private, so that I can decide who can participate in my activity.

Justification:

This requirement is not being implemented at this time. However, applying this requirement will improve the customizability of the application. So this requirement could be Won't.

14. As Alex, I want to get news about permitted outdoor activities so that I can get out and exercise.

Justification:On the one hand, going outside during COVID-19 is a dangerous thing to do, and it is difficult for us to find a safe place that can be used for exercise. In addition, exercise can be done indoors. Therefore, this requirement can be said to be Won't.

15. As Alice, I want some personal security so that I don't feel scared when I live alone.

Justification: The request is too targeted and difficult to achieve with just one application at the current state of the technical. Therefore, the requirement is probably Won't.

4.3 Additional requirements(6):

1. Recommend the events that the user's friends created or joined.
2. Provide real-time information about the epidemic and send notifications to remind users. Such as the number of cases, the curfew time, and travel distance restrictions.
3. Offers online counseling and advice services and allows users to access relevant professionals at any time of the day.
4. Provides users with an appointment-based home delivery service for groceries and medication.
5. Notify the potential health problem to the users, once they add the event / activity to their calendar (if people add the same event / activity, the system can check whether all people are safe and did not expose themselves to the infected person / has been to exposure sites / has the vaccine injection).

Allow users to add more than one statistic of the countries. (i.e. for families / friends not in the same country, adding into the show can help them notice both current situations)