

Assignment 2a - Paper Prototype Usability Test  
Document  
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## 1. Introduction

The remote usability test with prototypes was done to help figure out how the product will be used. For example, validate assumptions, improve logical flow, understand user behaviour, and determine new paths. In addition, we can save many hours of rework, because the development is based on the feedback collected in the various stages of prototyping.

MyPark is a mobile application in which users are provided with a list of activities in many Parks around Sydney, that can be chosen according to the user's needs and interest.

## 2. User testing analysis

A prototype is usually associated with the idea of solving a need, desire, or problem that we want to solve. Therefore it is recommended that before thinking about the solution, it is necessary that the problem is clear and validated with potential customers and / or users. And to validate the problem, at least one exploratory survey with potential customers / users and other stakeholders is recommended.

All interviewees were in the bracket range of my target user that is 19-35 years of age. The six interviewees underwent the card sorting testing and also the prototype test.

### 2.1. First user interviewed

The first interviewee is a female student, 32 years old and she likes to have a barbecue at the Park.

#### *Card sorting:*

She divided the application into four categories: Search, About, Profile and Settings.



*Paper Prototype:*

The user commented in prototype testing that her impression was "fantastic" and "really good". After browsing the application, she suggested modifying the main menu and choosing more than one option. For example, select Parks that have a swimming pool that is also great for a barbecue.

## 2.2. Second user interviewed

The second interviewee is female and 22 years old, she likes to go to the Parks to have a picnic with her friends.

*Card sorting:*

In the card sorting her impression was "very interesting" and "useful".

*Paper Prototype:*

The user commented in prototype testing: "I would like to have information on how much the parking costs. Well, it already provides information that has parking, but I would like to know more about it".

## 2.3. Third user interviewed

The third interviewee is male, 23 years old, he likes to visit the Parks of Sydney especially when his parents come to visit him.

*Card sorting:*

He divided the application into four categories: Search, Park Details, Map and Settings.

*Paper Prototype:*

Did not add information, commented that it was easy to navigate and that he liked how to add the parks to favourites.



## 2.4. Fourth user interviewed

The fourth interviewee is female, 26 years old, she likes to go to the park to read and relax.

*Card sorting:*

She divided the application into six categories: Search, Location, Details, Option and Settings.

*Paper Prototype:*

She make a suggestion that a search bar should always appear on every page so that accessing parks would be more easy and efficient.

## 2.5. Fifth user interviewed

The Fourth user interviewed is male, 29 year old, He likes to go to the park to ride a bike, swim and also meet friends.

*Card sorting:*

He divided the application into six categories: Search, Maps, Park Profile, Favourites and Settings.

*Paper Prototype:*

He made no suggestion; he was able to find all the information he found relevant.

## 2.6. Sixth user interviewed

The sixth user interviewed is female, 40 years old, she used to go to the Parks, she does not go any more as she likes.

*Card sorting:*

She divided the application into eight categories: Search, Search results, Maps, Facilities, Park Gallery, Park, Profile and mail.



### 3. Analysis

With the completion of the tests, it was concluded that some features will be redesigned as well as layout of the main menu. See below, some of the changes that will be implemented for the next prototype.

- In the home menu, be able to choose one or more options before doing the search. For example, research a park with swimming pool and that has playground and also barbecue. To conclude, be able to combine options.
- Hamburger menu with the function of searching neighbourhoods by name or postcode.
- The menu should be present on all the navigation screens as well as return to the main menu without having to access the hamburger menu. Provide a menu for home and a hamburg menu.
- The parks that provides parking, inform the schedules and how much it costs. Some users pointed out how important this information is, when they plan to go to the park.

Usability testing result:

As a result of the sorting card, in the question number one, "Allow the app access your location". The percentage was divided into 50% in the Maps category and 50% in the Settings category. With this result, it was decided that an option will be provided in the menu with the help category, this will help the user to authorize and block the location by GPS.

The result of the card-sorting test will be demonstrated in the section appendix in this document.



## 4. Components and System

### 4.1. System

The application was developed for the IOS Operating System, the devices available to run the application will be in an iPhone 6 and Ipad air.

The probability of changing the colours of the search buttons is highly recommended. The colours of the buttons will be replaced by images, forcing more information and desire for the user to use the application.

### 4.1. Design Pattern and Interface elements

Some studies point out that the concern in the development of interfaces contributes to the success of a software project for mobile devices. In this regard, Apple has a rigorous process for approving the applications developed by third parties for its devices in its store.

With this point of view, this work presents a guide based on good practices related to interface elements and interaction applied in the Apple platform for developers of this application.

The goal is to use the Apple Development Kit, where users already know the system, using the design patterns and user interface design.

The application will make use of the map and GPS, as is Apple's standard, will be provided the option to search directions by Apple maps and Google maps. This is an example of the development pattern of applications that use this feature. As an advantage users are already aware of this usability.



## 5. Information architecture

Card sorting is an important point for grouping tasks in the application. With the results obtained, it was demonstrated that the first groupings are effective and have a small error of interpretation.

The test clearly indicated the groupings of each task, so that the end user will have an easy time to navigate through the application.

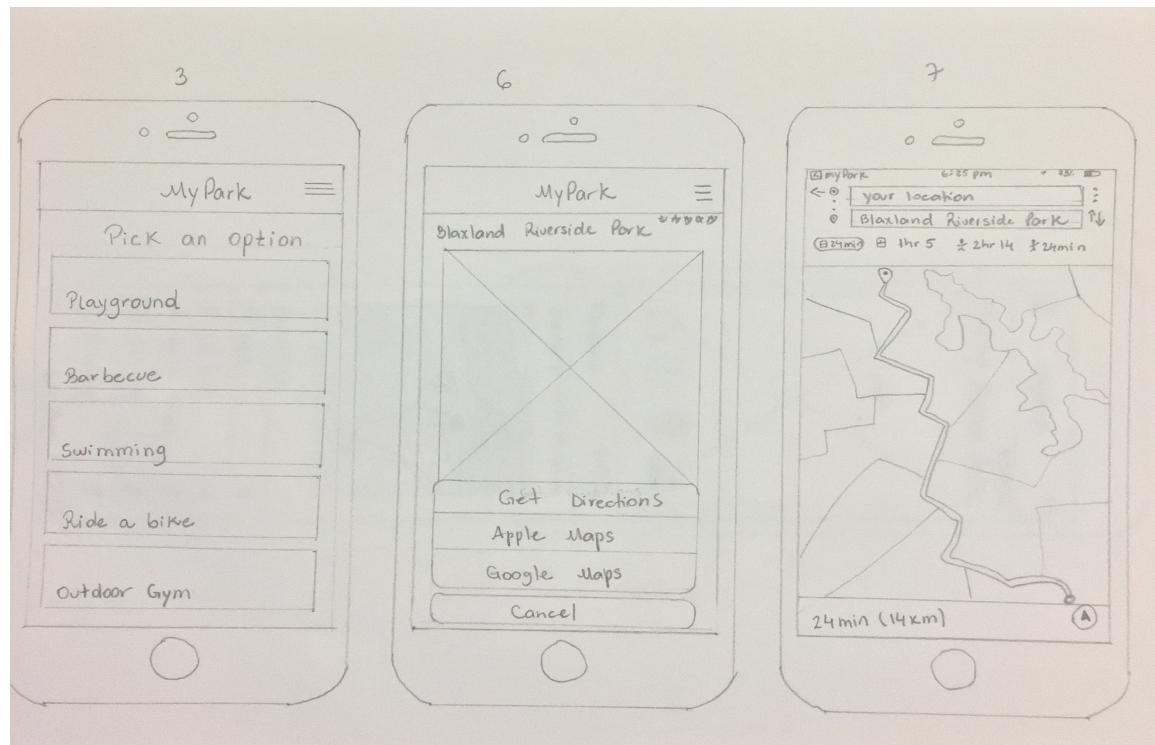
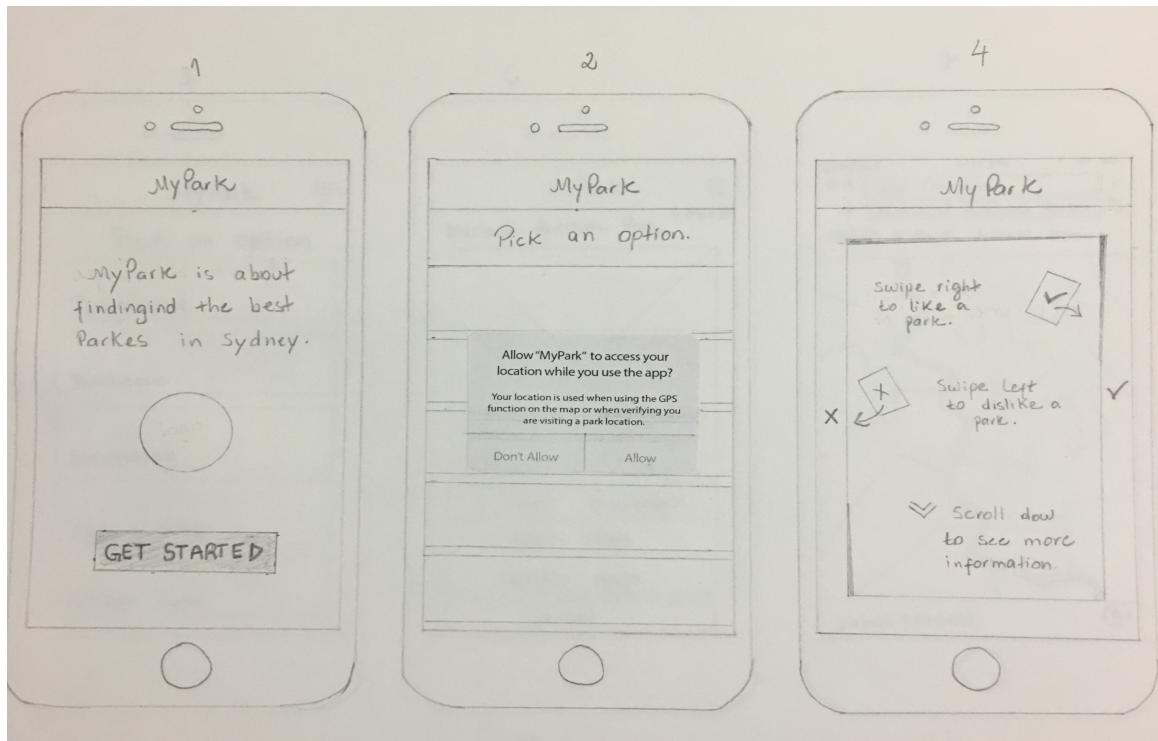
## 6. Summary

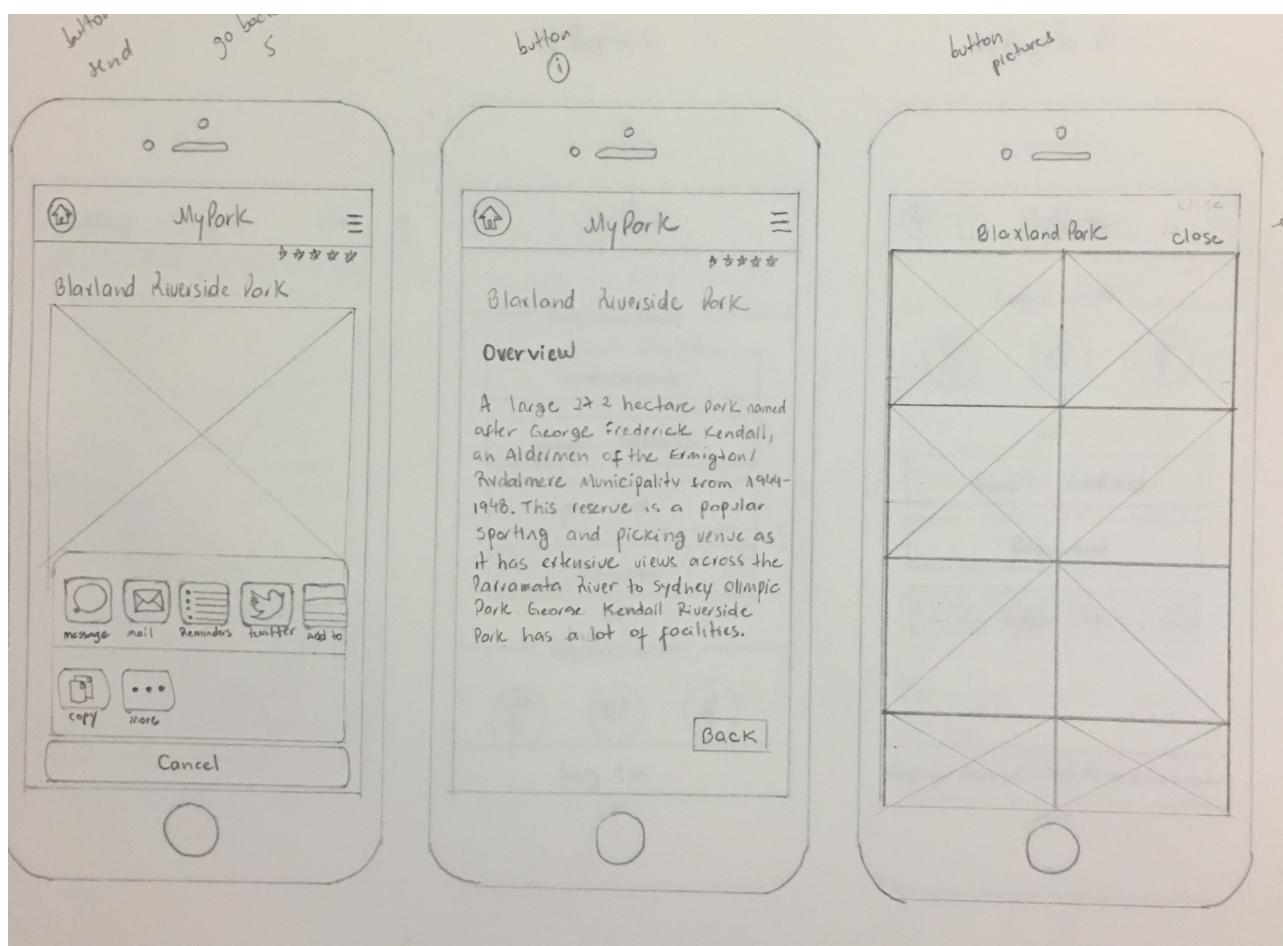
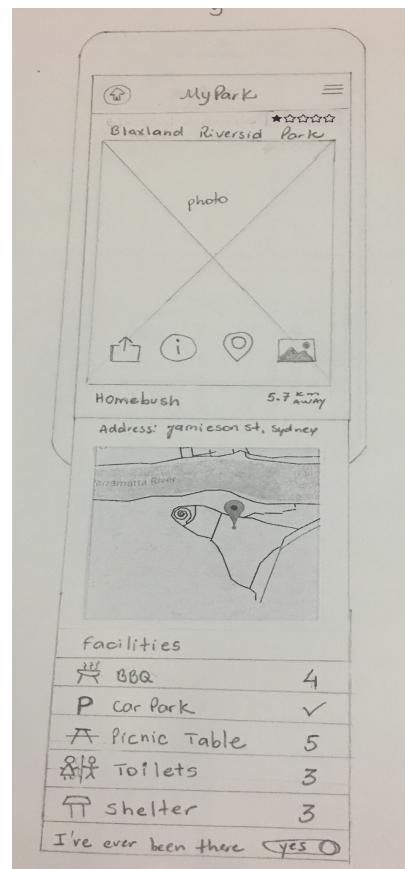
There is no silver bullet to get a software, app or website installed and running hassle free. But these best practices when testing interactive prototypes can reduce code rework and go a long way in ensuring that meaningful and effective usability tests are run.

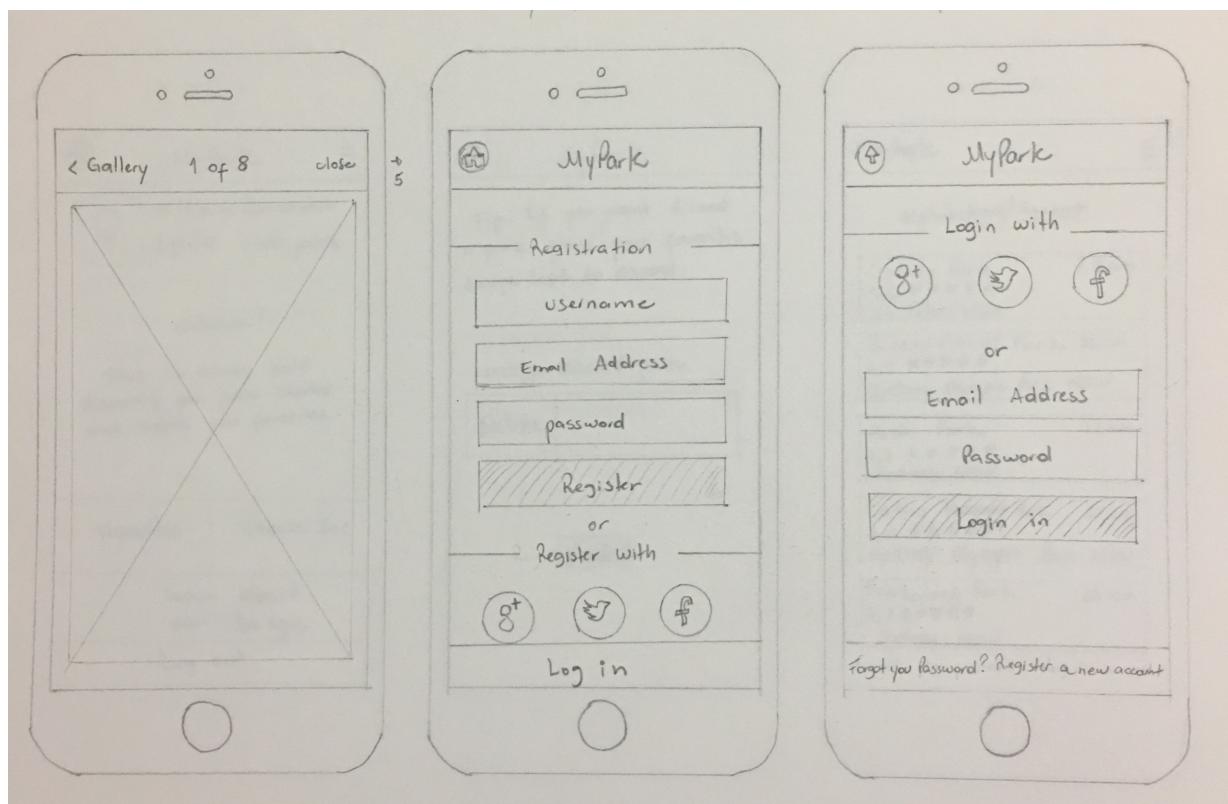
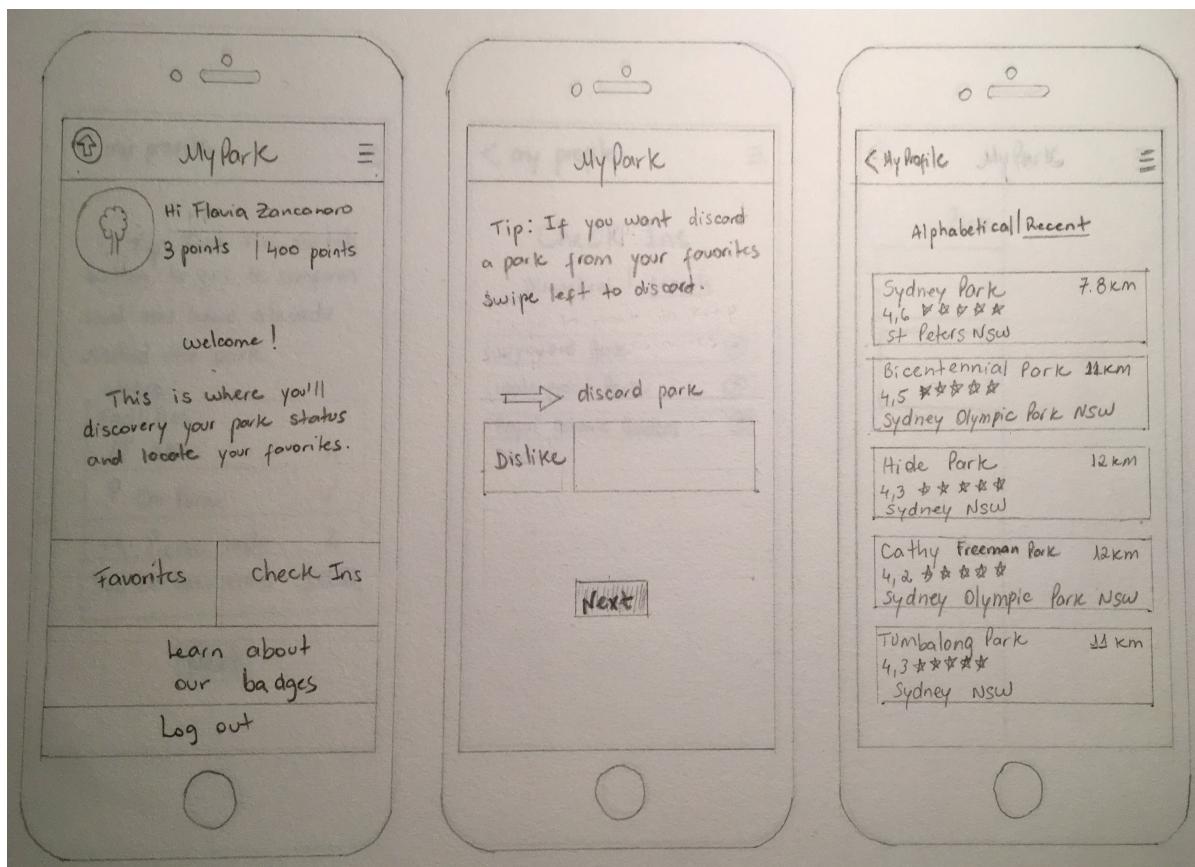


## 7. Appendices

### 7.1 iPhone 6 Plus









## 7.2 . Architecture and card sorting

| Nº | Description  | Profile | Facilities | Park gallery | Parks | Maps | Search | Option | Settings | 0   |
|----|--|---------|------------|--------------|-------|------|--------|--------|----------|-----|
| 1  | Allow the app access your location                       |         |            |              |       | 3    |        |        | 3        | 6   |
| 2  | Choose an option   |         |            |              | 2     | 3    |        | 1      |          | 6   |
| 3  | Get directions to go                                     |         |            |              | 2     | 4    |        |        |          | 6   |
| 4  | Choose Apple maps or google maps                         |         |            |              | 2     | 4    |        |        |          | 6   |
| 5  | Open google maps   |         |            |              |       | 4    | 2      |        |          | 6   |
| 6  | Facilities in the park                                   |         | 1          |              | 5     |      |        |        |          | 6   |
| 7  | Send message with link                                   |         |            |              | 3     |      | 1      | 1      | 1        | 6   |
| 8  | Look the photo gallery                                   |         |            | 1            | 5     |      |        |        |          | 6   |
| 9  | Information about the park                               |         |            |              | 6     |      |        |        |          | 6   |
| 10 | Search for playground                                    |         |            |              |       |      | 5      | 1      |          | 6   |
| 11 | Search for barbecue                                      |         |            |              |       |      | 5      | 1      |          | 6   |
| 12 | Search for swimming                                      |         |            |              |       |      | 5      | 1      |          | 6   |
| 13 | Search for ride a bike                                   |         |            |              |       |      | 5      | 1      |          | 6   |
| 14 | Search for outdoor Gym                                   |         |            |              |       |      | 5      | 1      |          | 6   |
| 15 | Save Parks   |         |            |              | 3     |      | 3      |        |          | 6   |
| 16 | Visualise your favorite parks                            | 6       |            |              |       |      |        |        |          | 6   |
| 17 | Swipe picture to like                                    |         |            | 1            | 5     |      |        |        |          | 6   |
| 18 | Swipe picture to dislike                                 |         |            | 1            | 5     |      |        |        |          | 6   |
| 19 | Look at the star rating                                  |         |            |              | 5     |      |        |        | 1        | 6   |
| 20 | See the map location                                     |         |            |              | 2     | 4    |        |        |          | 6   |
| 21 | Look at the current distance that you are from the Park. |         |            |              |       | 1    | 5      |        |          | 6   |
| 22 | Address Park   |         |            |              |       | 5    | 1      |        |          | 6   |
| 23 | Cancel a Park from your favorites                        | 4       |            |              |       | 2    |        |        |          | 6   |
| 24 | Search parks by postcode                                 |         |            |              |       | 1    |        | 5      |          | 6   |
| 25 | Check how many location that you have                    | 5       |            |              |       |      |        |        | 1        | 6   |
| 26 | Collect location badges                                  | 5       |            |              |       |      |        | 1      |          | 6   |
| 27 | Bookmark points of interest + activities                 |         |            |              |       | 5    |        | 1      |          | 6   |
| 28 | Check how many badge                                     | 4       |            |              |       | 1    |        | 1      |          | 6   |
|    |  | 24      | 1          | 3            | 64    | 26   | 37     | 7      | 6        | 168 |



| Nº | Description   | Profile | Facilities | Park Gallery | Parks | Maps | Search | Option | Settings | Total |
|----|---|---------|------------|--------------|-------|------|--------|--------|----------|-------|
| 1  | Allow the app access your location                      |         |            |              | 50%   |      |        | 50%    |          | 100%  |
| 2  | Choose an option  |         |            |              | 33%   | 50%  |        | 17%    |          | 100%  |
| 3  | Get directions to go                                    |         |            |              | 33%   | 67%  |        |        |          | 100%  |
| 4  | Choose Apple maps or google maps                        |         |            |              | 33%   | 67%  |        |        |          | 100%  |
| 5  | Open google maps  |         |            |              | 67%   | 33%  |        |        |          | 100%  |
| 6  | Facilities in the park                                  |         | 17%        |              | 83%   |      |        |        |          | 100%  |
| 7  | Send message with link                                  |         |            |              | 50%   |      | 17%    | 17%    | 17%      | 100%  |
| 8  | Look the photo gallery                                  |         |            | 17%          | 83%   |      |        |        |          | 100%  |
| 9  | Information about the park                              |         |            |              | 100%  |      |        |        |          | 100%  |
| 10 | Search for playground                                   |         |            |              |       |      | 83%    | 17%    |          | 100%  |
| 11 | Search for barbecue                                     |         |            |              |       |      | 83%    | 17%    |          | 100%  |
| 12 | Search for swimming                                     |         |            |              |       |      | 83%    | 17%    |          | 100%  |
| 13 | Search for ride a bike                                  |         |            |              |       |      | 83%    | 17%    |          | 100%  |
| 14 | Search for outdoor Gym                                  |         |            |              |       |      | 83%    | 17%    |          | 100%  |
| 15 | Save Parks  |         |            |              | 50%   |      | 50%    |        |          | 100%  |
| 16 | Visualise your favorite parks                           | 100%    |            |              |       |      |        |        |          | 100%  |
| 17 | Swipe picture to like                                   |         |            | 17%          | 83%   |      |        |        |          | 100%  |
| 18 | Swipe picture to dislike                                |         |            | 17%          | 83%   |      |        |        |          | 100%  |
| 19 | Look at the star rating                                 |         |            |              | 83%   |      |        |        | 17%      | 100%  |
| 20 | See the map location                                    |         |            |              | 33%   | 67%  |        |        |          | 100%  |
| 21 | Look at the current distance that you are from the Park |         |            |              | 17%   | 83%  |        |        |          | 100%  |
| 22 | Address Park  |         |            |              | 83%   | 17%  |        |        |          | 100%  |
| 23 | Cancel a Park from your favorites                       | 67%     |            |              | 33%   |      |        |        |          | 100%  |
| 24 | Search parks by postcode                                |         |            |              | 17%   |      | 83%    |        |          | 100%  |
| 25 | Check how many location that you have                   | 83%     |            |              |       |      |        |        | 17%      | 100%  |
| 26 | Collect location badges                                 | 83%     |            |              |       |      |        | 17%    |          | 100%  |
| 27 | Bookmark points of interest + activities                |         |            |              |       | 83%  |        | 17%    |          | 100%  |
| 28 | Check how many badge                                    | 67%     |            |              |       | 17%  |        | 17%    |          | 100%  |



## 8. Test evidence

Image first user interviewed - 32 years old and she likes to have a barbecue at the Park.

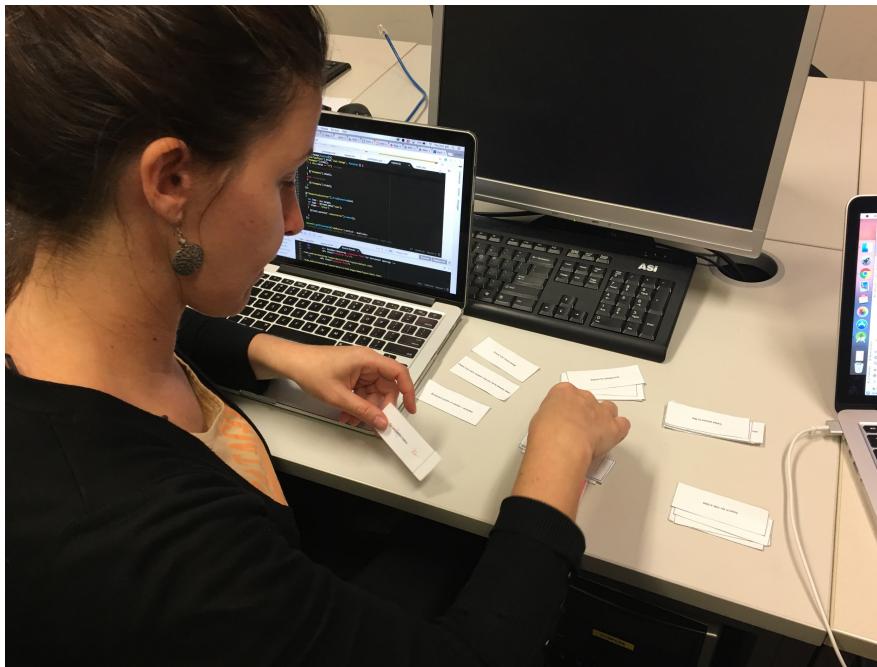


Image second user interviewed - 22 years old, she likes to go to the Parks to have a picnic with her friends.

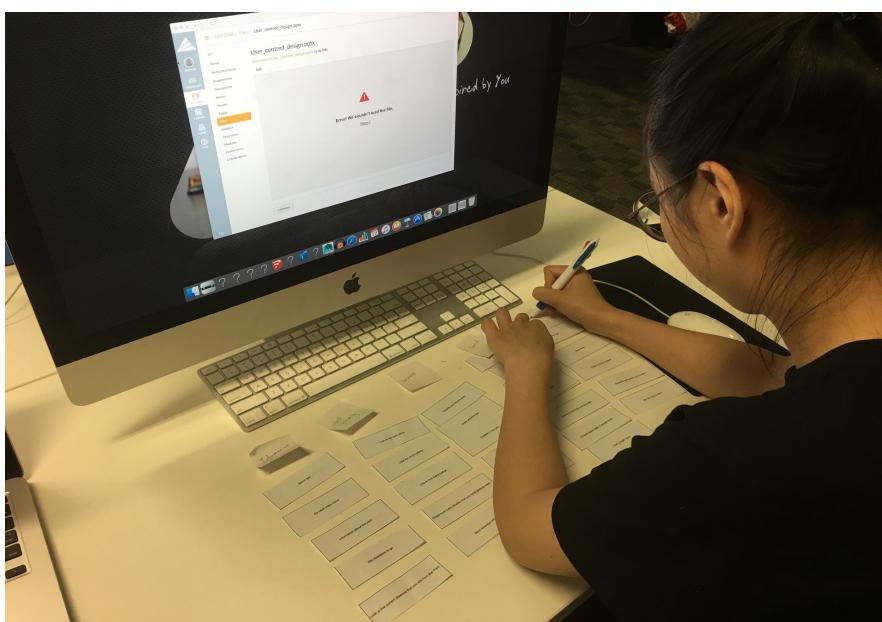




Image third interviewee - 23 years old, likes to visit the Parks of Sydney especially when his parents come to visit him.

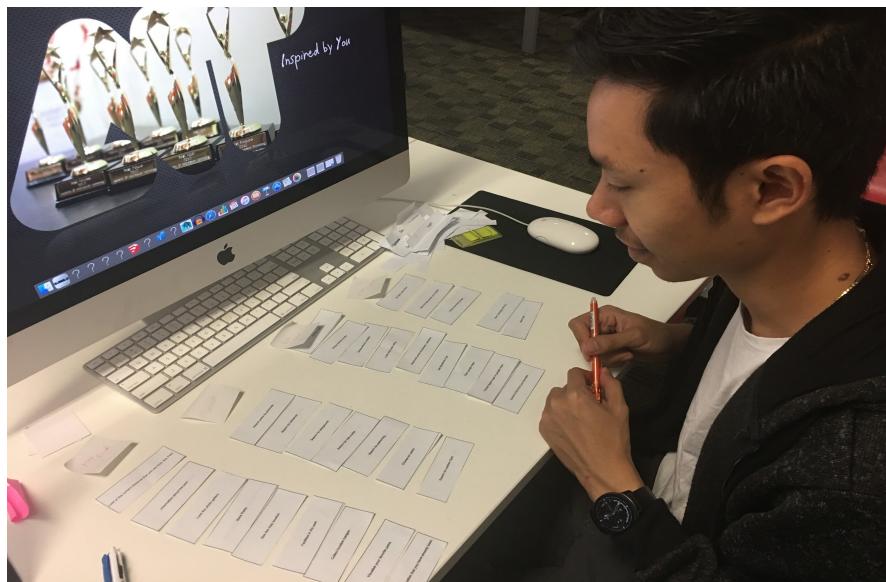


Image fourth user interviewed - 26 years old, likes to go to the park to read and relax.

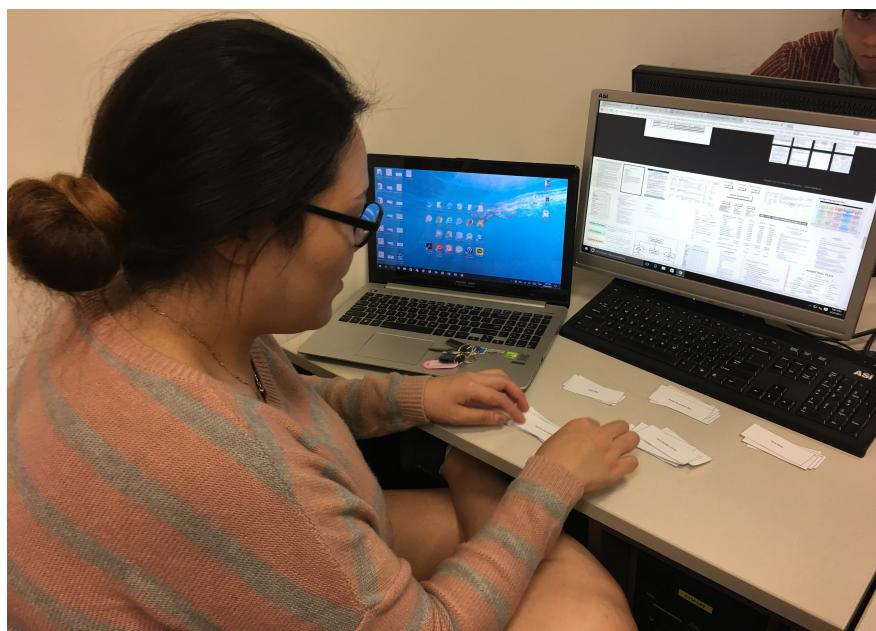
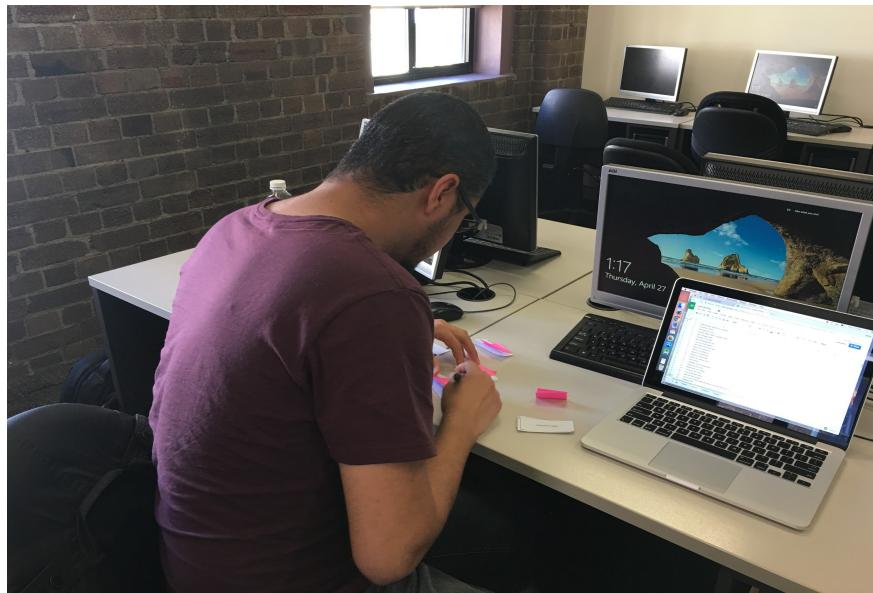




Image fifth user interviewed - 29 year old, He likes to go to the park to ride a bike, swim and also meet friends.



Sixth user interviewed - 40 years old, she used to go to the Parks, she does not go any more as she likes.



## 9. Site map

