Narrative Overview

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1. Context from case study

Firstly, the case study introduces the background and aim of the MyFarmXchange. Wilman Flint and Barnaby Rubble plan to develop a software named MyFarmXchange. The purpose of this project is to enable farmers to form unified trading blocs to improve farmer's economic prosperity selling grain and their community connections.

Then, the case study shows the features and requirements of the platform. The platform should include some central functions, like recording farm indicators and socialization between users. It should meet these requirements: User profiles, Diary Entries, Manual Entry, Social Interaction. Also, Wilman Flint and Barnaby Rubble wish this platform can appeal to end users and take up a significant proportion. After the platform is released, revenue may be expected. In the future, Wilma and Barnaby wish this platform can be developed to an "eBay style" transaction processing facility.

2. Design problem

This project should be able to run on many different platforms. On many different Operation System. Just see the mobile phone part. There are 3 main different OS on mobile phones, which are IOS, Android and windows. As for browsers, there are even more existing on the world. It may be difficult to match all the browsers or the OS.

Another problem in design may be the size. It is hard to design a properly size of this project. It cannot meet all requirements if the size is too small. And we cannot make it too large because it should be able to be used on small mobile devices such as smart watch.

3. Business objectives

Firstly, Wilma and Barnaby wish the socialization function in this platform can attract the end users. Then the platform can take up a significant proportion of Australian farmers. Once it become popular enough, a market function will be added on it so that famers can make money transaction processing. Finally, Wilma and Barnaby can earn revenue from it.

4. Scope of proposed solution

We present the scope of proposed solution in the following table:

IT Module and Solution	"Epic" User Stories
Log-in Module	1
Multiple Devices Control	2, 13
Authentication Module	3
Database Model	3, 4, 6, 8, 9, 10, 11,
Entries Publish and Management	5, 7, 9, 10, 11, 14
Real-time Location Module	7, 9, 10, 11,
Social Function Module	12, 18, 19, 20, 21, 22, 24, 25, 26, 27,
Information Synchronized	15, 16,
Multiple Account Synchronized	17,
Safety Module	1, 3, 4, 19, 23,
UI Module	28,

5. List of high levels "epic" User stories

1 As a user, I want to register so that I can access the platform (active member or observer)
2 As a user, I want to use various devices so that I can access the platform.
3 As a user, I want to provide my official National Growers Registration (NGR) number, so that I can become an active member and create entries.

4   As a user, I want to provide some optional farm and demographic information so that I can complete my profile.

5   As a farmer, I want to add some diaries so that I can present some farm activities, such as harvesting task, receiving an official grain quality ranking, a selling task, a storage task, a maintenance task or an equipment upgrade.

6   As a farmer, I want to choose a wide range of farm activities so that I can choose different data items recorded.

7   As a farmer, I want to publish a farm activity entry, so that I can record the date, the start time, the duration and present an estimate of the cost as well as the average price in market.

8   As a farmer, I want to attach a series of special format files with my entry so that I can present the farm activity more effectively.

9   As a farmer, I want to utilize fewer data items to record other concrete farm measurements, so that I can record some farm activities simply.

10 As a farmer, I want to add some indirect measures such as the date, type of measure (growth rate, soil, pests etc.) and cost estimation. To entries, so that I can foster the productivity innovations.

11 As a farmer, I want to publish some text-based dairy and attach photos or video so that I can share my experience of farm activities with my friends.

12 As a user, I want to comment other users' diaries so that we can have an interaction and share some experience about farming.

13 As a user, I want to get the platform through multiple devices so as to add an entry to the diary through web browser or mobile applications.

14 As a user, I want to do some operations in the entries which I have published so that I can edit or delete the entries that I have already added.

15 As a user, I want to edit or delete the entries that I have already added so that I can change it.

16 As a user, I want upload data from several mobile devices to the Internet, such as fitness tracking wrist bands or soil test kits, so that I can sync the platform to accept these data, and create diary entries automatically.

17 As a user, I want to sync the data from other platforms such as GrainCorp or ProFarmer, so that I can integrate all the data I need to the myFarmXchange platform.

18 As a user, I want to associate accounts from other platform, so that the data will be imported to the diary automatically.

19 As a user, I want to search and connect for other users, so that we can make contact and share information.

20 As a user, I want to approve the request before connecting to another user, so that I will have a better control to the friend management.

21 As a user, I want to see other users' diary entries in their feed, so that we can know each other better and grab the point that I interested in.

22 As a user, I want to comment on other's entries and give "Congrats", so that we can make a closer communication.

23 As a user, I want to delete any connection or report anti-social behavior, so that I can receive a better social environment.

24 As an administrator, I want to be able to remove the users from the platform who offend the Code of Conduct, so that I can maintain a healthier platform for the users.

25 As a user, I want to create events and invite my connected friends to attend, so that we can sell grain or meet others in person.

26 As a user, I want to be able to either accept, decline or say "maybe" if I am invited to an event, so that I will have an opportunity to choose whether to attend and have a better control to the events management.

27 As a user, I want to comment on the events that I have been invited to, so that I will have a closer communication to other attenders.

28 As a user, I want to click "like" to other, so that I can show my likeness.

29 As a user, I want the app has a menu so that I can chose what option I'm going to use.

30 As an investor, I want the app becomes popular so that I can earn money latter.

6. "groomed" product backlog list

The requirements in this platform can be divided into two parts: core requirements and non-core requirements.

Our group put User Profiles, some parts of farm activity as diary entries and connecting with friends to core requirements. The parts included in core requirements are a date, start time and duration. Because these functions are the central idea expected by clients, these functions have the highest priority, which must be met.

In non-core requirements, our group rank the requirements as the order showed below from high priority to low priority:

1. Adding entries in diary. This requirement make the platform more flexible for them.
2. Syncing with other Farm Services. Syncing with other Farm Services can attract users from other Farm Services. This requirement make it easy for users to import their information and files.
3. Creating events. This requirement is like the events in Facebook. These requirements give users a chance to do socialization. Also, if the event is a group sell, economic benefit may be gained.
4. Syncing with Mobile Devices. Syncing with mobile devices allows users to use this platform wherever they want. This requirement make it convenient for users, who do not always carry laptops.
5. Some other parts in Diary Entries. These parts are map data, attaching photos or videos and other piece of information that users would like to share.

7. Stakeholders.

Stakeholders should be Wilma Flint and Barnaby Rubble, those farmers who will use this apps, server provider and OS provider.