**1. Introduction**

**1.1 Purpose of the Vision Document**

The purpose of this document is to outline our ideas for AgriNet. We will state our goals for this project and how it will suit the needs for the intended users. The needs and profile of the users will be explained. Will also outline the concepts and ideas that we consider and whether they will be implemented or not.

**1.2 Product Overview**

An Internet-based bartering system (AgriNet) is to be developed for a small agricultural community in County Tyrone. This will allow the sharing of farm equipment to increase efficiency and save costs for the users.

The system will only be available to approved members who meet the requirements. These users will be allowed to post various equipment they own and aren't using on AgriNet. They can also rent equipment they need from other users for an arranged length of time.

To ensure fairness for all users the system will use its own currency known as “Florins”. Farm equipment will be assigned a “Florin” value by the AgriNet committee. The value of a Florin will be decided each day manually outside the system scope.

**2. User Description**

**2.1 User Demographics**

AgriNet will aim to have many users as the system is set up to ensure the economy of the system can work. These users will be the members of the Co. Tyrone agricultural community. This will include the users with access to the internet from home and the users that will access the program from local community centers.

**2.2 User Profiles**

Many of these users will have little experience in using this sort of technology. As the system aims to make equipment sharing more efficient the software needs to be very easy to use, quick and have an intuitive GUI in order to convince the users that the AgriNet system is the best way to do this. This also means the users will be not be very happy with any errors or downtime so we must take this into consideration.

We will listen to the users who use this system the most and have them provide feedback on features that could improve the user experience.

**2.3 User environment**

The user environment for AgriNet will be a website that is available on many devices and browsers. In particular it must support older devices and browser that many users may have due to limited knowledge of updating their internet devices. This will include mainly Chrome, Safari and Microsoft Edge. The system should work for many modern resolutions but also for older smaller resolution screens.

**2.4 Key User Needs**

The users will need to be able to connect to AgriNet at almost any time. The system must be stable and allow the user to use without any complication. The users should be able to connect with each other easily to rent out equipment.

The systems for putting up equipment must be very simple and easy to understand to ensure the users are confident in the system during their first use.

The GUI must use an intuitive design and provide users a clear way to search for what they need. If they cannot have what they need an estimated wait should be shown clearly to reduce frustration.

The system must also include an easy explanation of the concept of Florins when a user first uses the website to reduce any confusion about this currency.

**3. Product Summary**

**3.1 Product Perspective**

AgriNet will be a revolutionary new way to maximize the efficiency of using farm equipment in rural areas. This sort of system does exist in the world already but not with its own currency. The use of this type of crypto currency will make this product unique.

The system is closed to be only members of the community. This ensures that the system is only used by those who can utilize it fully. This will bring the community closer together and ensure that the product is used correctly.

**3.2 Summary of Capabilities**

The system should be able to be used by a member on any machine or browser they wish to use. The system must allow for equipment to be put up for rent and for equipment to be borrowed. The system must allow users to provide feedback on transactions and users feedback must be shown on the system. The system must have an easy to understand GUI that is intuitive to ensure members can use the system. The system could allow for a way for users to provide feedback on the system and their ideas to ensure the system is always providing for the user.

**3.3 Assumptions and Dependencies**

If a user lives in the required postcode then it is assumed, they are eligible to join. A user with an internet connection and a device should be able to access the system. If the user has and wants to lend out equipment to help his fellow community members or to earn Florins, then there will be equipment available. If a user has Florins then the will be able to rent equipment from another user.