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Software Requirements Specification for Agri-Pro

# Table of Contents

[Table of Contents 1](#_Toc392592106)

[Software Environment 2](#_Toc392592107)

[1. Database 2](#_Toc392592108)

[2. Web 2](#_Toc392592109)

[3. Mobile 2](#_Toc392592110)

[Capabilities: 3](#_Toc392592111)

[1. Interface 3](#_Toc392592112)

[2. GPS Capability 3](#_Toc392592113)

[3. Orchard layout 3](#_Toc392592114)

[4. Data storage 3](#_Toc392592115)

[Detailed Design 4](#_Toc392592116)

[1. GPS Capability 4](#_Toc392592117)

# Software Environment

The software which will be used for all of the development. The different categories of development will use different software as explained below.

## Application

The desktop app will be built TBD

## Database

The database will be created TBD

## Web

The website will be built using TBD

## Mobile

* 1. iOS

XCODE or SWYFT will be used to develop the mobile side of the application. The target platform will initially be iPhone5 and iPad.

* 1. Android

Will not be supported in initial release.

* 1. BlackBerry

Will not be supported in initial release.

# Capabilities:

The following is a list of all the capabilities required by the software

## Interface

* 1. The application will be web based.

## GPS Capability

* 1. Import sets of coordinates.
  2. Calculate the area under each set.

## Orchard layout

* 1. The cultivar of each row in the orchard will be recorded.
  2. The number of rows and number of trees in each row will be recorded.
  3. The distance between each row as well as the distance between each tree will be recorded.
  4. The plant date of each row will be recorded.

## Data storage

* 1. All of the data will be stored in a database.
  2. The data base will be hosted in the cloud.
  3. The distance between each row as well as the distance between each tree will be recorded.
  4. The plant date of each row will be recorded.

# Detailed Design

## GPS Capability

* 1. Import sets of coordinates.

Each set will consist of an array of size 2 x 2n where n>0. The array will represent the latitude and longitude as shown below:

[“25,57,47,S” ; ”28,8,18,E”]

* 1. Calculate the area under each set.

The calculation for each set is performed using the formula: TBD