Viticulture (Grape farming)

Challenge: Our customer is a consultant to grape farmers. In this farming several different parameters are measured and then applicable solutions are implemented. For example, the amount of Nitrogen, Phosphorous and Potassium decides, what kind of fertilizers are to be used. The humidity and water content in soil decides how much water is to be given to farm. If there is any disease to the grapes then, what kind of insecticides is to be sprayed? All these different factors keep on changing hence the treatment also changes. In order to get maximum yield of grapes a particular schedule was prescribed initially of about a fortnight to farmers by the consultant. However, this was not enough to get the maximum yield. The challenge was to establish communication between farmer and consultant on a daily basis and there are several farmers who require the consultancy. Also, the number of parameters described above is huge.

Solution by Arun InfoTech: An android application is provided to every farmer or grower. This farmer then goes out in the field every day and measures these parameters. After measuring the parameters he inputs them in the given android application. On the other side the consultant accesses the database in which these parameters get stored. As a result of which the schedules being provided to grower has become daily instead of fortnightly.

WE have also created an admin portal for the consultant in which he can see all the different factors input by various farmers. He has ready-made templates also from which he can choose the schedules.

Below is a screen shot from which observations done by the farmer of the factors can be seen by consultant.

Below is a screen shot of the master from which consultant can choose various fertilizers.

Below are some images of Android app for farmer:
As seen below the farmer can input date farm and plot before proceeding.

Second screen is that of android app giving different tabs of observation,analysis daily activities, harvesting,schedule-protection,growth and fertigation.
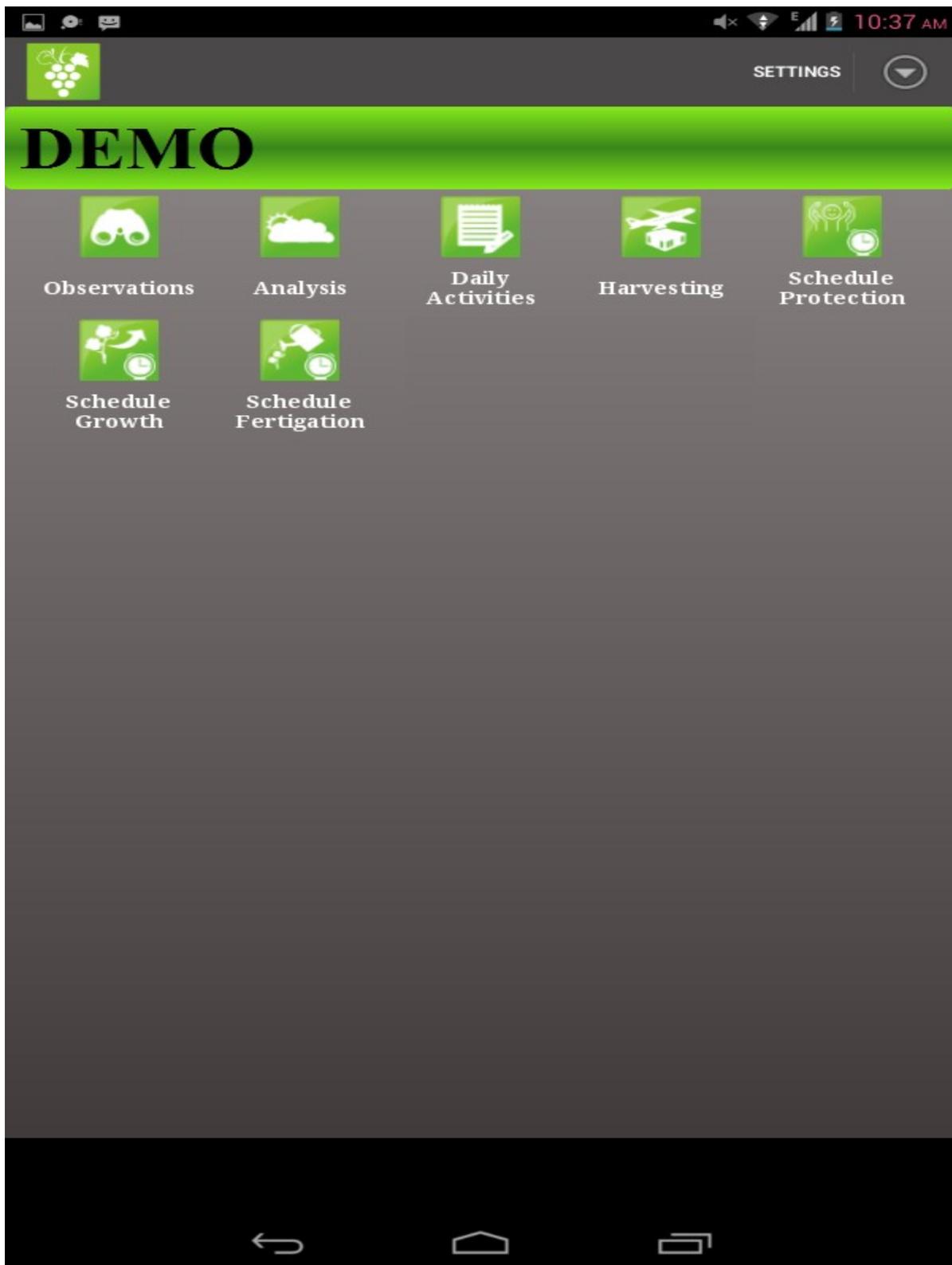
Third shot shows a the record of fertilizer and manure. Rest of images are self explanatory.

Schedule Fertigation

SETTINGS

DEMO

Name: Demo User	Plot: Plot 1
Variety: Sonaka	Plant Distance: 8.00*9.00 ft
Soil: Light Soil	Age: 0.00
Canopy System: Bower	Stage: 209

Stage	Date	Chemical	Dose/Acre

DEMO

Name: Demo User	Plot: Plot 1
Variety: Sonaka	Plant Distance: 8.00*9.00 ft
Soil: Light Soil	Age: 0.00
Canopy System: Bower	Stage: 209

Yesterday Schedule

Date:

Stage:

Target

Fertilizer:

Sanjivake:

Today Schedule

Date:

Stage:

Spraying Goal:

Fertilizer:

Sanjivake:

Tomorrow Schedule

Date:

Stage:

DEMO

Name: Demo User	Plot: Plot 1
Variety: Sonaka	Plant Distance: 8.00*9.00 ft
Soil: Light Soil	Age: 0.00
Canopy System: Bower	Stage: 209

Yesterday Schedule

Date:

Stage:

Target

Insecticide:

Fungicide:

Today Schedule

Date:

Stage:

Spraying Goal:

Insecticide:

Fungicide:

Tomorrow Schedule

Date:

Stage: