

MODERNISING THE FARMING INDUSTRY

- ▶ Harvest is a software system to assist farmers with farm management and facilitation of work. It will assist growers with yield data and optimising worker's performances. The system will efficiently measure worker productivity, track the foremen on a farm, record information and data, and display the necessary information. This system is aimed at farming communities to help them record data and get work done more efficiently. It will comprise of: an Android/iOS application and a website.

OLD SCHOOL

[illegible]

02 MAY Rudance TEAM

1. Perbunia \Rightarrow III + III + III + III + III \Rightarrow 15
2. Suzen \Rightarrow II + III + III + III + III + I \Rightarrow 15
3. Goodress \Rightarrow III + III + III + III + III \Rightarrow 15
4. Singy \Rightarrow III + III + III + III + III \Rightarrow 15
5. Sarah \Rightarrow III + III + III + III + III \Rightarrow 15
6. NOMSA \Rightarrow III + III + III + III + III \Rightarrow 15
7. Ebernyle \Rightarrow III
8. Gint \Rightarrow II + III + III + III \Rightarrow 9
9. Patricia \Rightarrow III + III + III + III \Rightarrow 9
10. Xoli \Rightarrow II + II + III + III + III \Rightarrow 10
11. Ester \Rightarrow III + III + III + III \Rightarrow 10
12. SELI \Rightarrow III + III \Rightarrow 6
13. Marthar \Rightarrow III + III + III \Rightarrow 8

02/04/2018

Target 30 Bussets

① Sebenile = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 28

② Suran = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 29

③ Goodnes = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 25

④ Lilly = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 20

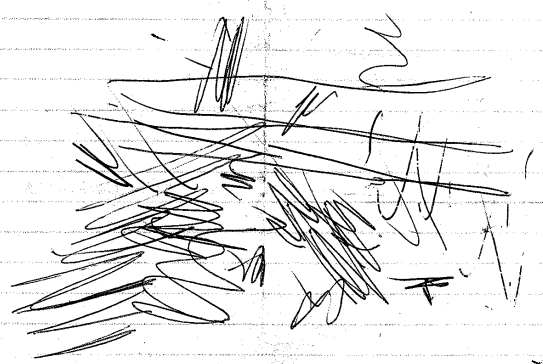
⑤ Stanley = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 24

⑥ Agreement = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 22

⑦ Ponka = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 21

⑧ Agnes = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 19

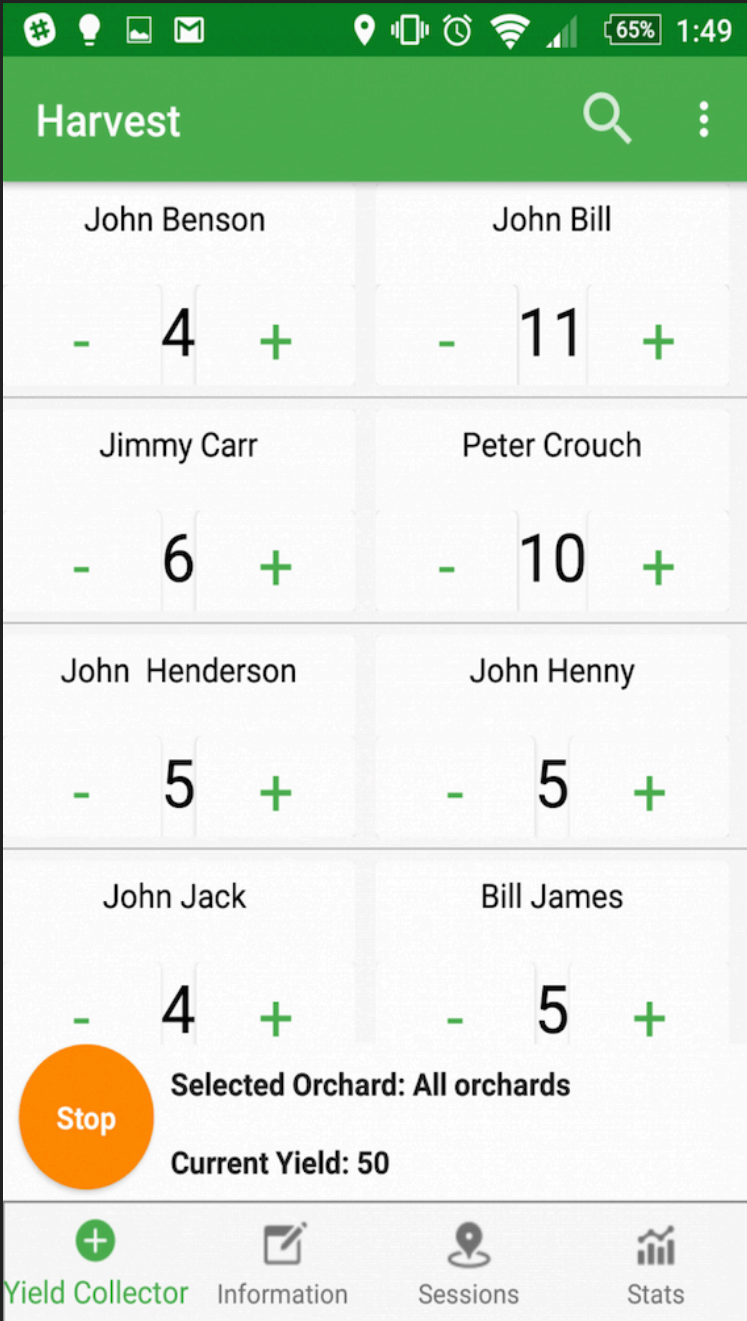
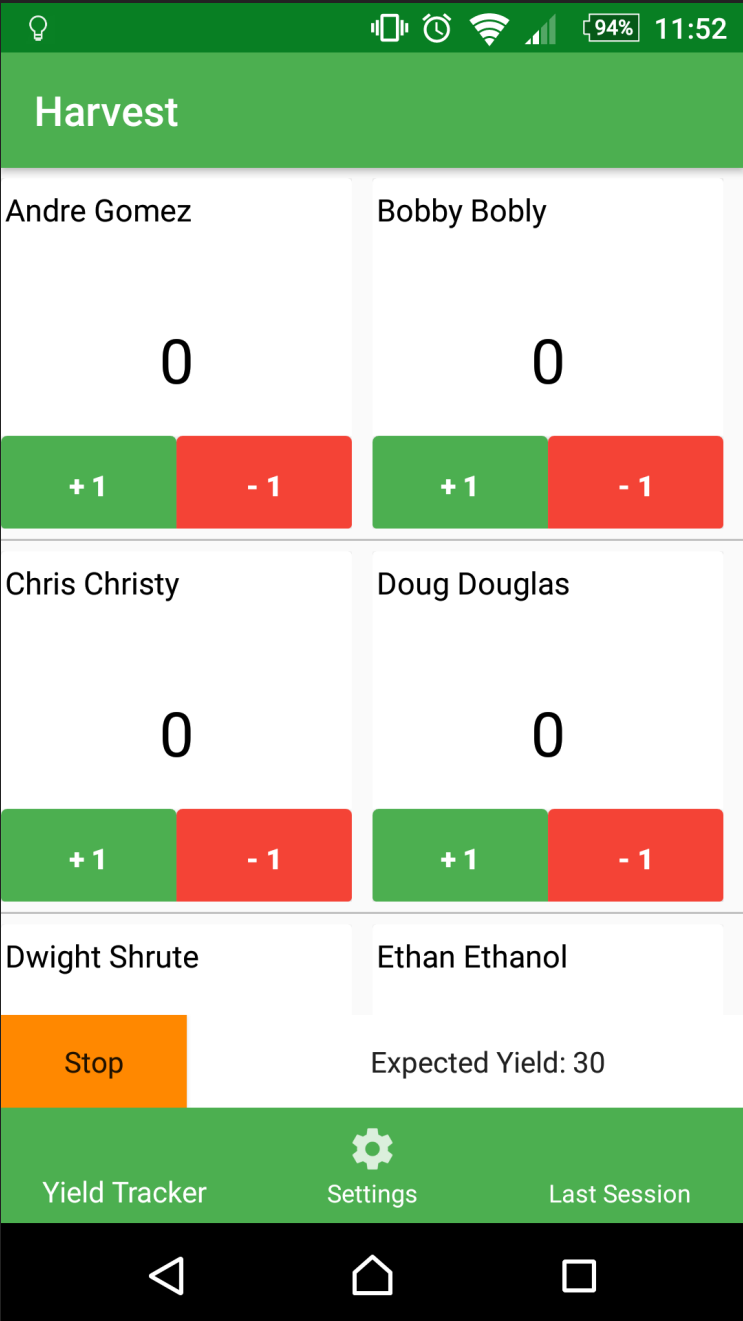
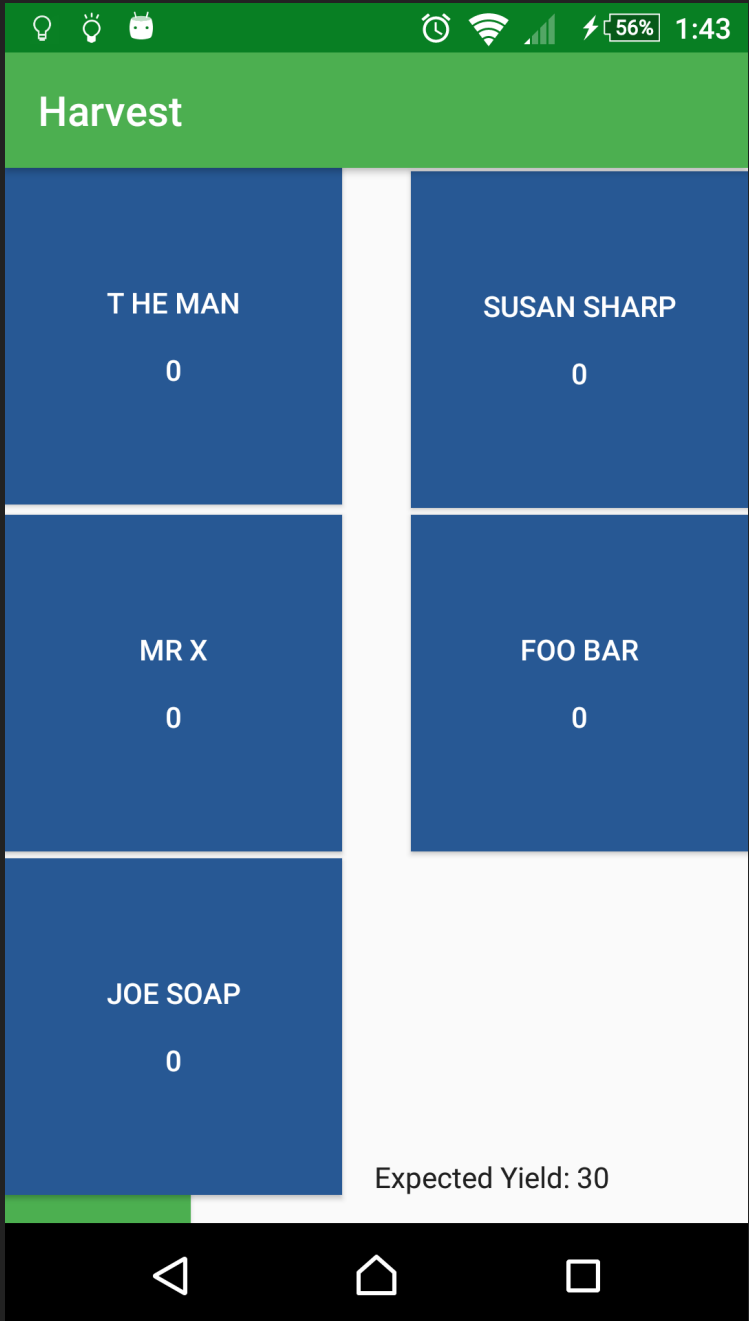
⑨ Tracy/Rily = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 11 = 17



WHAT WE'VE DONE

- ▶ Deployed to App Store, Play Store and Web
- ▶ Real world testing with possible clients
- ▶ Improved expected yield predictions accuracy
- ▶ Improved search functionality
- ▶ More robust graph system on web
- ▶ Infer polygon area

WHERE WE'VE COME



HARVEST - BINARY NINJAZ

WHERE WE'VE COME

Home

Information

Sessions

Heatmap

Sign out

Farms

Orchards

Workers

Search

Add Orchard

Block H

Block T

Block U

Block V

Centenary

Isleford

Sack's home

Troutbrook

Save

Orchard Name:

Orchard Crop:

Orchard Location: Click the corners of a field to demarcate area

Map

Satellite

Remove Last Point

Clear Area

Mean Bag Mass: Kg

Date Planted: yyyy / mm / dd

Dimensions: x Unit:

Information:

Assigned Farm: <LB_x200f1cTFxTzGd> Apple Farm

Home

Tracker

Information

Sessions

Heatmap

Statistics

peter@parker.park

Sign out

Farms

Orchards

Workers

Search

Add Orchard

Burns - A

Burns - Alpha

Burns - B

Burns - Beta

Burns - C

Colds - A

Milds - Block A

Modify

Orchard Name: Alpha

Orchard Crop:

Orchard Location:

Map

Satellite

Mean Bag Mass: Kg

Irrigation: Micro

Date Planted: 01 January 1970

Cultivars:

Row Spacing:

Tree spacing:

Information:

TEST PROCESSES

- ▶ Unit tests are done on base algorithms as sanity checks
- ▶ Unit tests are done on mid level code. Dependency injection is required since actual server calls should be avoided.
- ▶ Higher level code is tested with UI Tests
- ▶ Mock data generator is used for scalability and performance testing
- ▶ User feedback about UI/UX has been used to improve the system