

Wegmans Organic Farm & Orchard

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R·I·T

Senior Project 2017



Domain Problem

At the Wegmans Organic Farm & Orchard, the farm manager uses Microsoft Excel to track the status of crop plans, generate yield projections, and calculate the required materials for planting. There is no software for farm management that meets their needs of data traceability and an intuitive user interface that the entire farm staff could use.

Every crop that leaves the farm should be traceable from seed to store. This ensures that should anything go wrong, the root cause can be quickly determined and all other affected shipments can be notified.

Methodology and Elicitation

Iterative elicitation allowed for the team to explore and understand the domain problem over the course of the entire year. In the fall semester, the team visited the Wegmans Organic Farm & Orchard and saw firsthand how the application would be applied in the daily routines around the farm.

Between semesters, the team opted to halve the length of sprints from four weeks to two weeks. This increased the turnaround on deliverable demonstrations and allowed for more frequent feedback from the sponsors.

Key Features

Display an efficient and user-friendly interface to promote productivity and reliable data tracking.

Track significant data points throughout a crop's lifecycle, such as location, dates of major events, and treatments used.

Use historical data to suggest values during data entry as a way of increasing efficiency.

Crop Plan

Plot Location

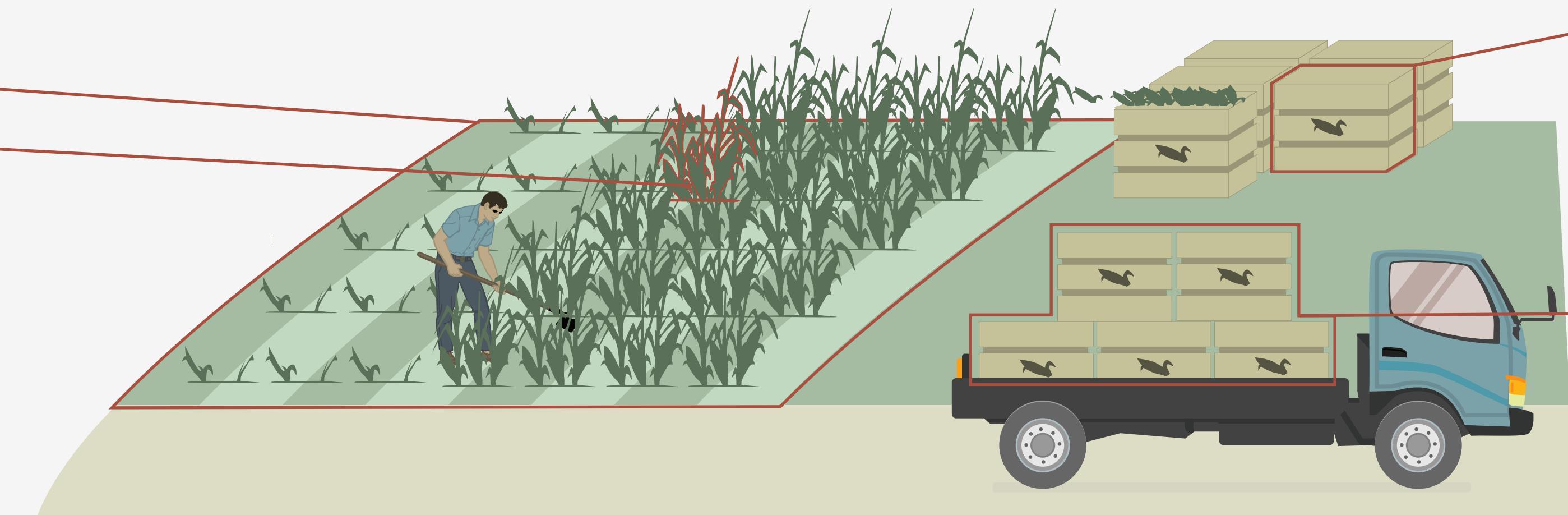
Crop Information

Sow, Plant, Harvest Dates

Treatments Used

Harvest Lots

Crop plans encompass the lifecycle of a crop on the farm. It is the main point of data capture in the application.



Lot

Harvested Products

A lot represents a group of harvested crops that have been through production and are ready for shipping.

Shipment

Harvested Products

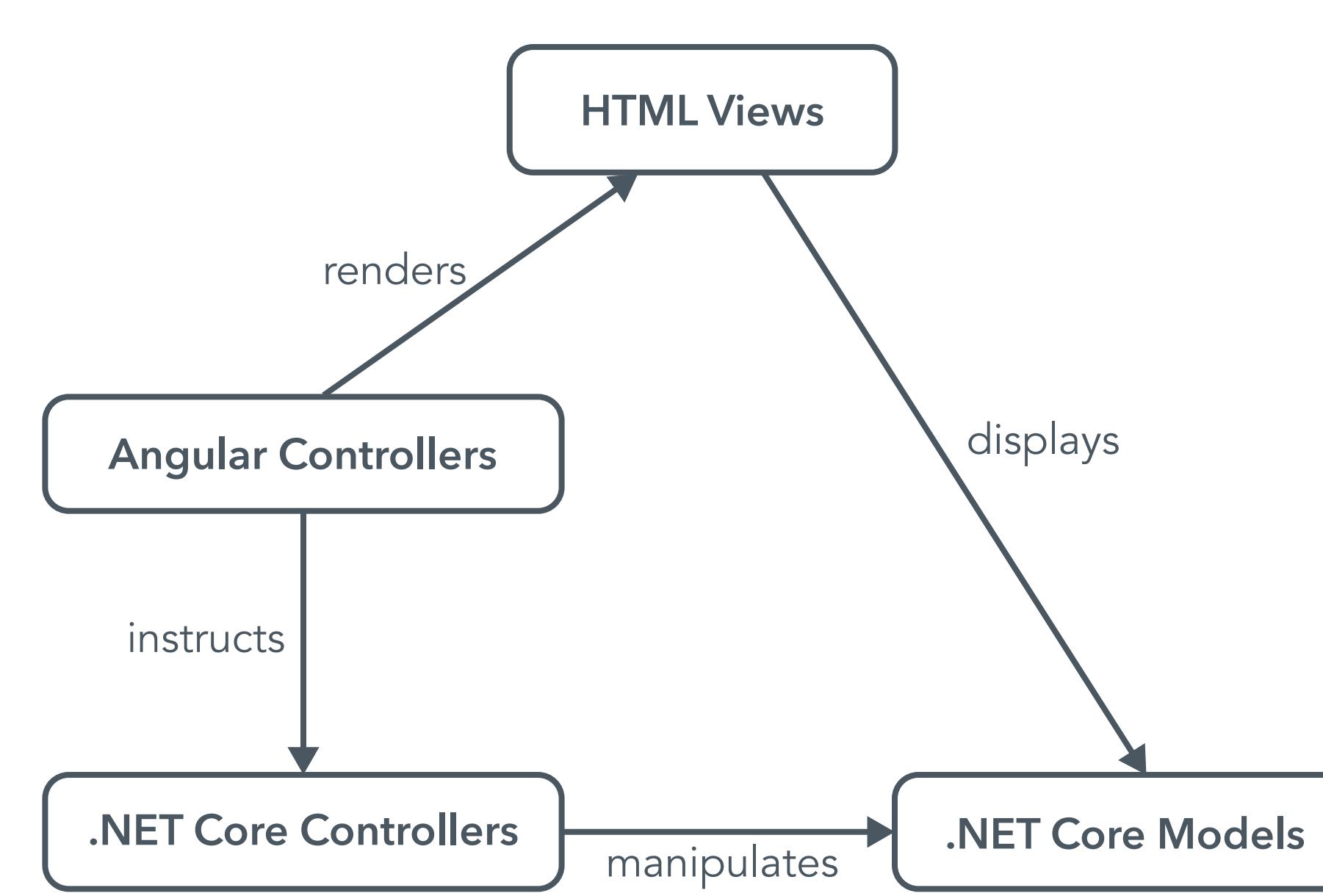
Shipping Destination

A shipment tracks where and how much of a harvested product is sent out. It is key to maintain this data for traceability. Should a bad group of crops get shipped out, they can easily be traced back to their original crop plan.

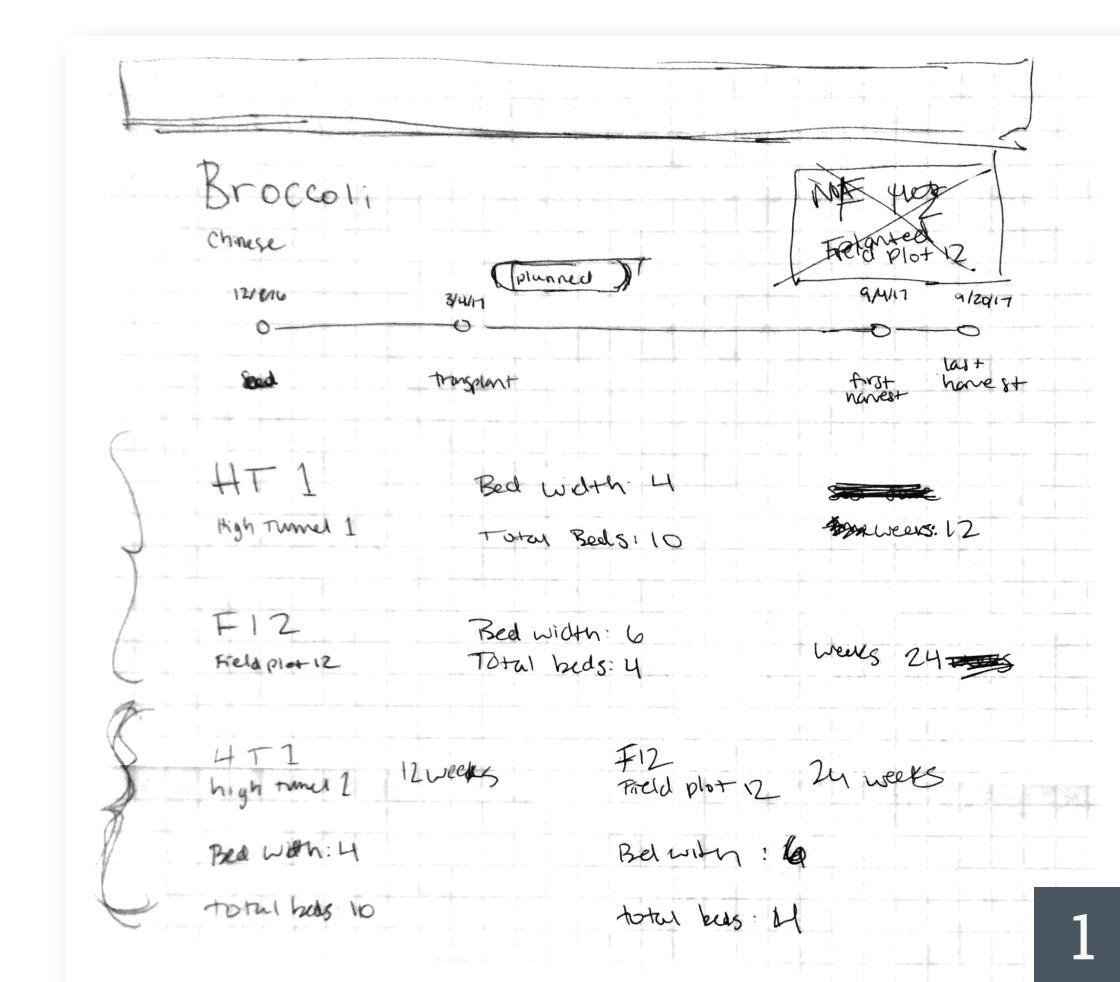
Tech Stack



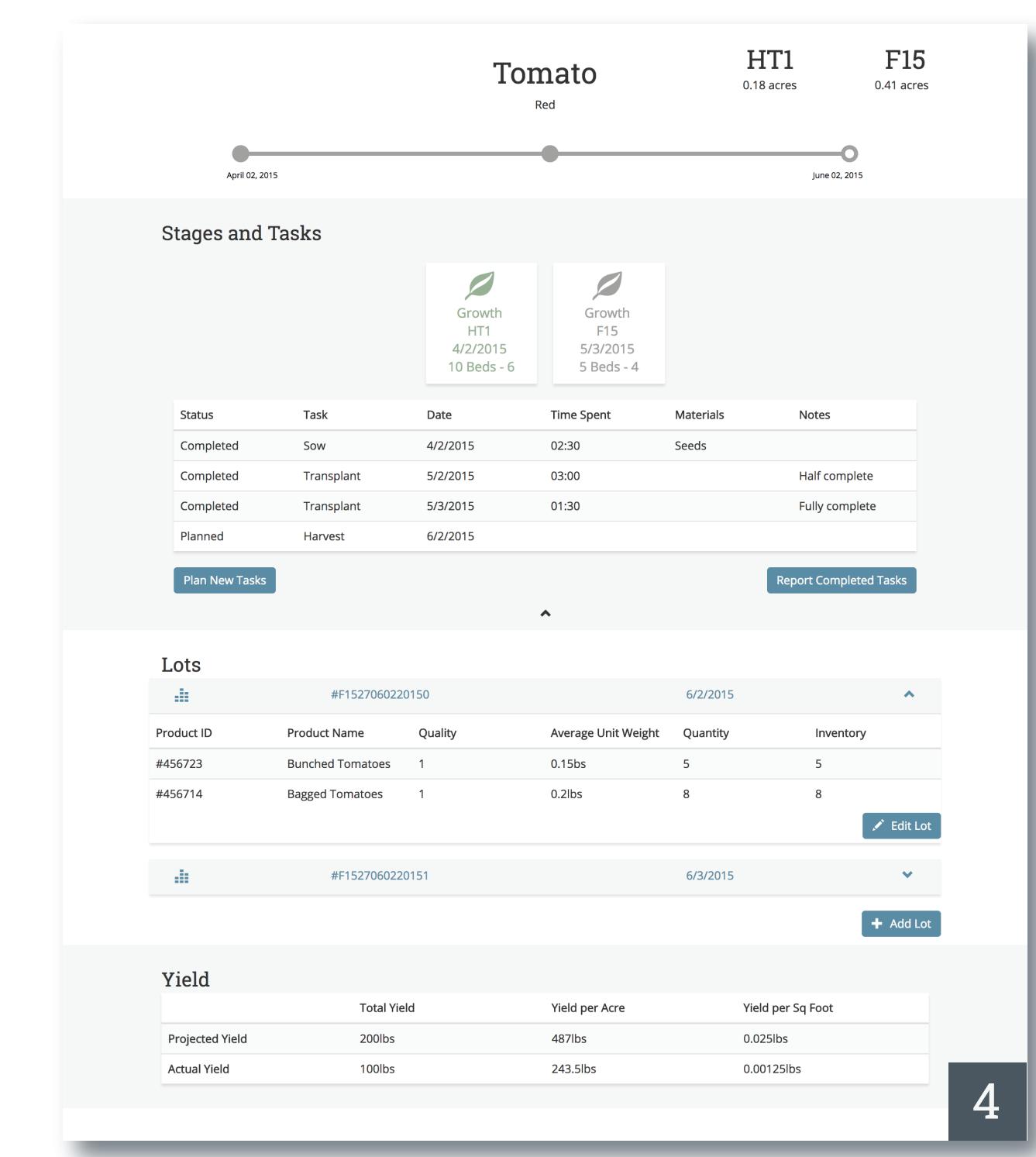
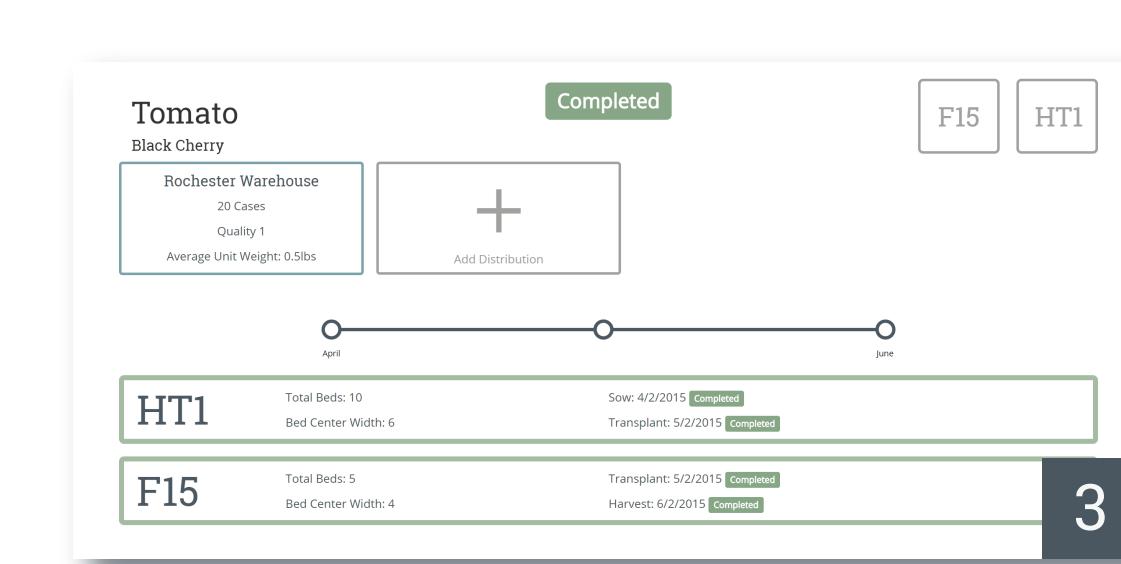
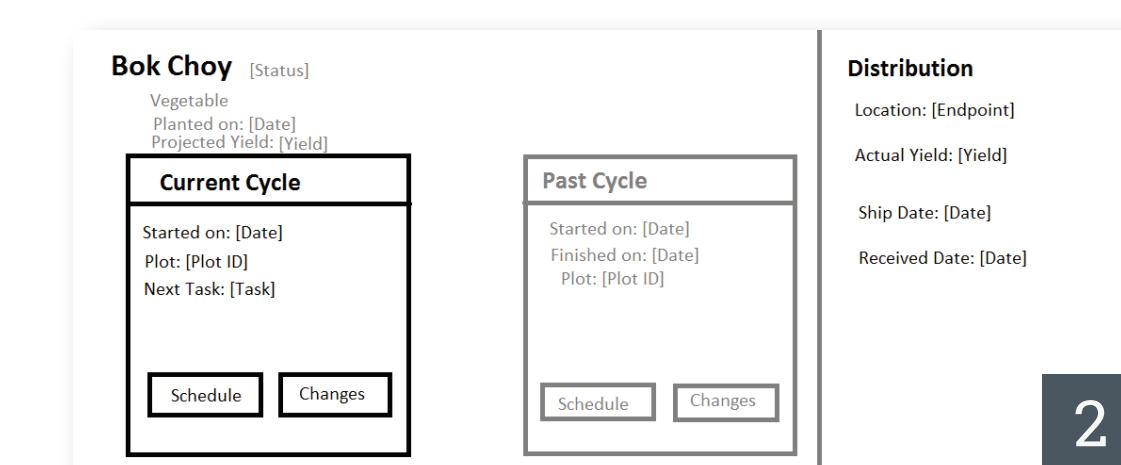
High Level Architecture



UI Design



1. Sketches
2. Low Fidelity Mock Ups
3. High Fidelity Prototype
4. Final Result



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