

TIMBER

A GARDENING GUIDE APP

OUR TEAM



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SUSANT PANT



OVERVIEW

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MOTIVATION

We intend to develop a guide for gardeners of *all levels of expertise* to shape their nurseries and backyards into something they can be proud of.

This will generally be accomplished using *gardening tips, processes, seasonal advice etc.* to help the gardener come to their own decisions, giving them the confidence and allowing their garden to reflect themselves.

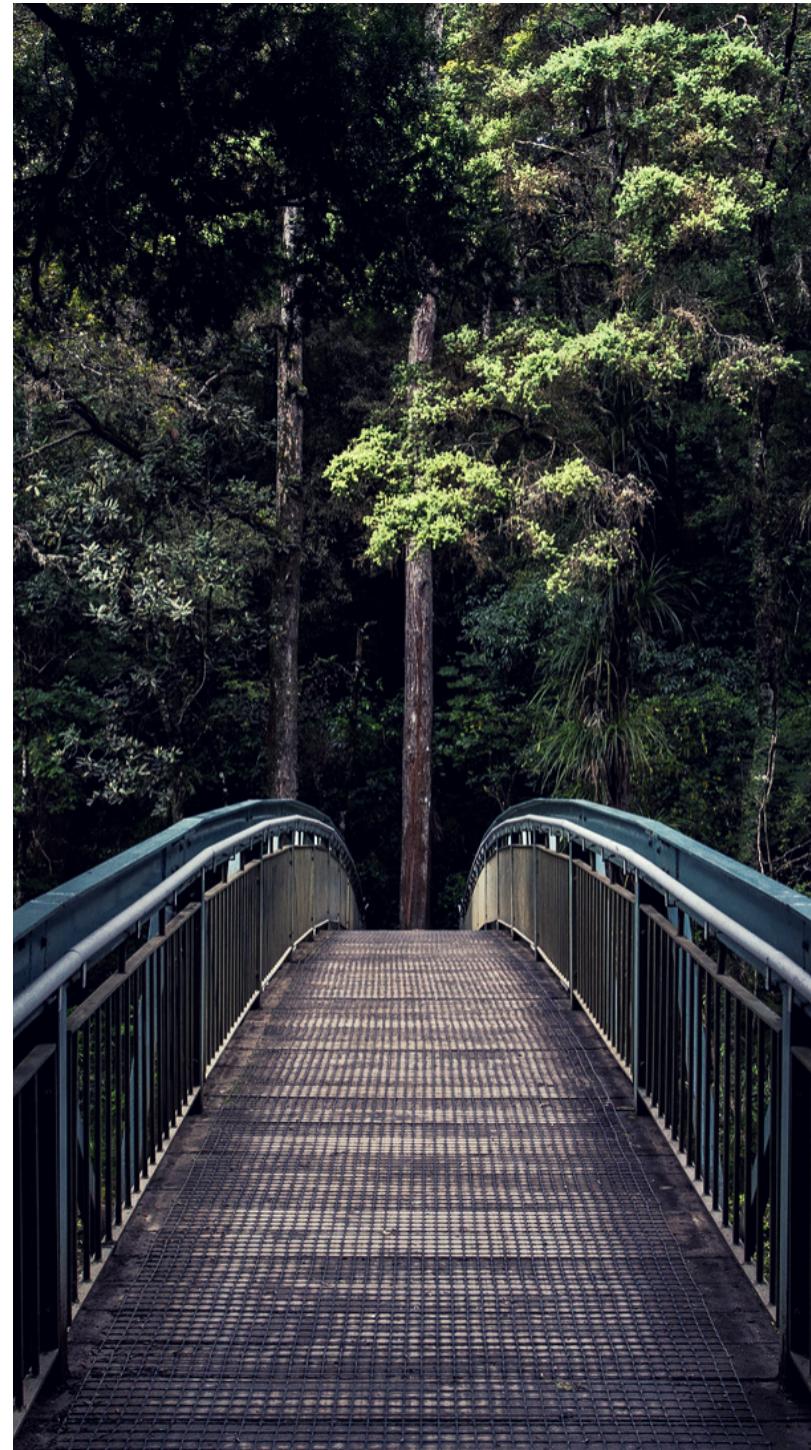
DESIGN PROBLEM

CATERING TO BOTH EXPERIENCED AND INEXPERIENCED GARDENERS

EASY TO UNDERSTAND CONTENT

PLANTS AVAILABILITY IN NEARBY STORES

GETTING INFORMATION ABOUT A PLANT BY TAKING A PICTURE



WHO IS THIS FOR?

NOVICE GARDENERS

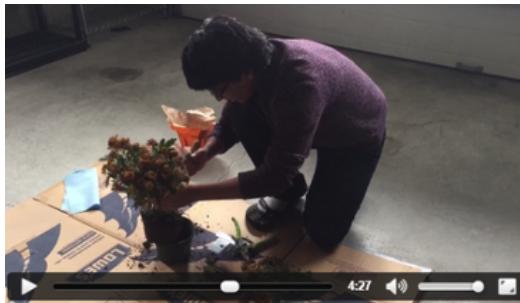
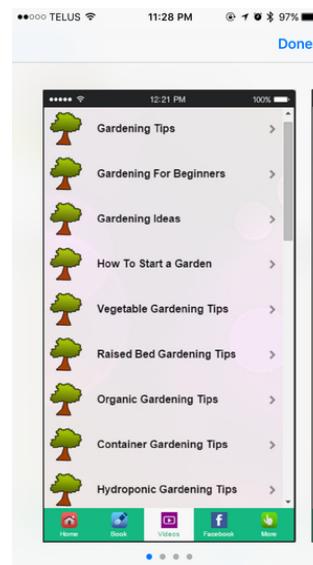
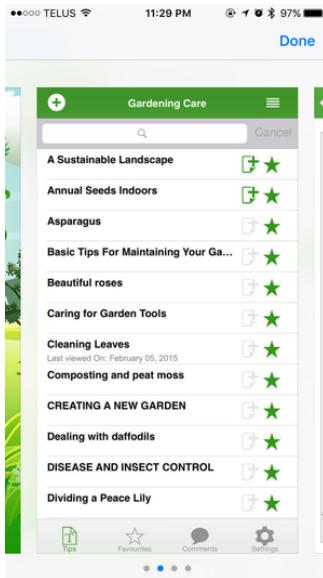
- Help these individuals get started with gardening
- Easy to understand content
- 'One-stop shop' for these individuals to find the information they need in the manner that is most convenient for them



EXPERIENCED GARDENERS

- Help these individuals get the information that they need quickly and in a convenient manner
- Use symbols and language that these individuals are aware of





USER RESEARCH

SECONDARY RESEARCH

We researched the user interface and content of similar applications which helped us in creating an application that addresses issues that these other applications do not.

BODY-STORMING

By having an inexperienced team member experience a common gardening activity helped shape the type of content that might be useful to novice gardeners

SURVEYS AND QUESTIONNAIRE

Asking an experienced gardener about how they get their information help pivot our idea in the initial stages and that ultimately influenced the system that we have built.

MAJOR DESIGN DECISIONS

Must Haves

MAIN SCREEN

Very simple with buttons large enough such that if the user were actually gardening they would be able to select one of the two options with their nose.

PHOTO SEARCH

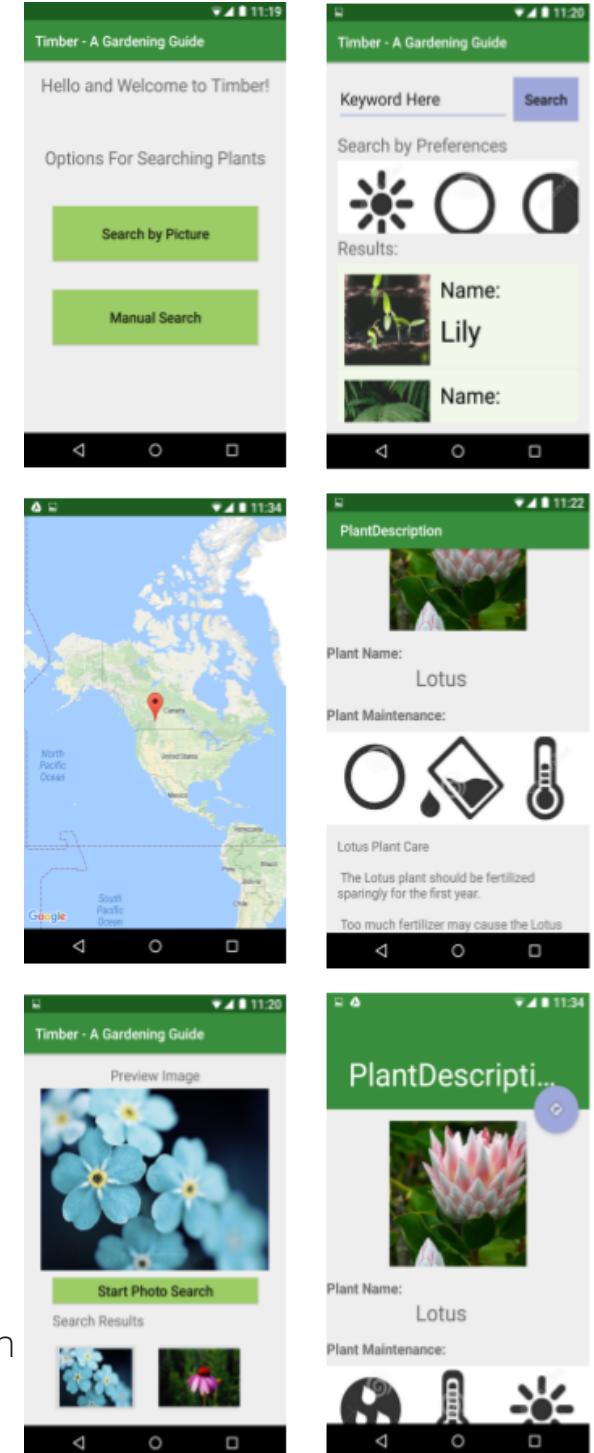
Giving users the ability to get search results by simply taking a picture on their mobile device

MANUAL SEARCH

Allowing users to search by selecting through an array of commonly found gardening symbols and/or by typing in keywords

PLANT DESCRIPTION

By using commonly found gardening symbols, a detailed description section, and a map view, this allowed for both experienced and inexperienced gardeners to get a quick grasp or detailed view of each plant.



MAJOR DESIGN DECISIONS

Should Haves

MAIN SCREEN

Ability for the user to customize the layout. Since there are only two buttons, the user should be able to move and size them to their liking.

PHOTO SEARCH

Motion gesture to launch the search option. Can make the experience more fluent and allow users to quickly access this option at a moments notice.

MANUAL SEARCH

User should have the ability to save their preferences. This can improve the usability of the application by replicating their experiences with other software.

PLANT DESCRIPTION

Customization text size, should be included. This aspect can make it so that users can have a continuous experience with there other software's preferences settings.



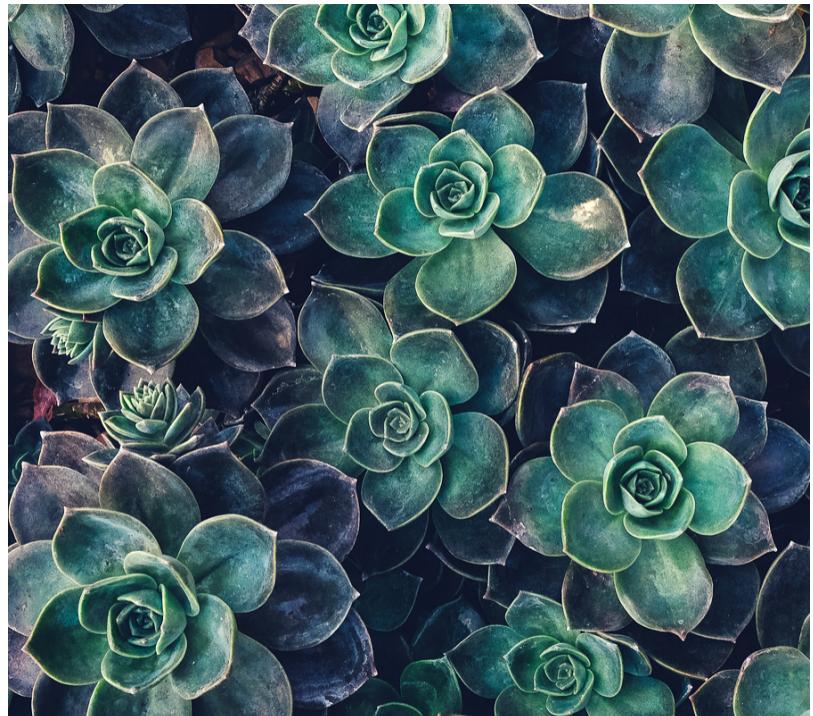
JUSTIFICATION FOR DESIGN DECISIONS

RATIONALE

Throughout HCI we have learned that there are disconnects between the developer of the software and the user of the software. We learned techniques on how to make our software more user-centric.

As you can see from our user research we have gathered that our design choices were refined to meet the needs of the user. Since we have interviewed and put ourselves in the shoes of the user. We have a better understanding about what the user's needs are. This also helps us remove features that we previously thought were needs but later turned out to be unnecessary or extras for the user.

For this reason we believe that the design decisions we made are justified to meet the needs of the user.



FINAL SYSTEM



Start Photo Search

Search Results



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PHOTO SEARCH

In photo search the users have the ability to search through a plant database using visual references. (ie. Picture of the plant)

Keyword Here Search

Search by Preferences



Results:



Name:
Lily



Name:

Plant Description



Plant Name:
Lotus

Plant Maintenance:



Lotus Plant Care

MANUAL SEARCH

Manual Search allows the user to filter through our plant database using Keywords and Preferences. This give the user the power to curate results to their liking.

PLANT DESCRIPTION

The Plant Description pages gives the user information about a plant with minimal text. We use standard symbols to provide information to the user.

Keyword Here

Search

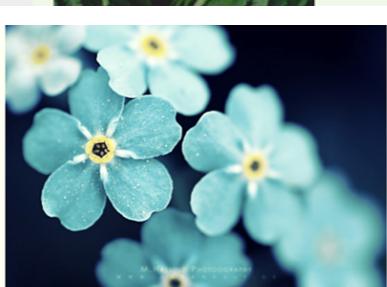
Search by Preferences



Results:



Name:
Lily



Start Photo Search

Search Results



Unfortunately,
android.process
stopped.

Report

HEURISTIC EVALUATION

UNCLEAR PREFERENCE SELECTION Severity 4

We found that on the manual search option, when you select a preference there is no indicator that it has been selected. This violates Consistency and Standards.

Solution: Grey out the selected preference or implement a check-mark overlay on selected preference

APP STABILITY WHILE SCROLLING Severity 4

This issue is found in Manual search, the app will crash when the user attempts to scroll through results. This violates Visibility of the system.

Solution: Reduce the resolution of the assets. This reduces the stress on the CPU/GPU of the mobile device

PHOTO SEARCH DISCONNECTED Severity 3

When you are presented with the results from photo search, they do not lead to plant description. This violates Matches between real world and system as well as Visibility of the system.

Solution: Fix the connection between the activities on the code base.

NEXT ITERATION

RONA Home & Garden Calgary Crowfoot
★★★★★ (45) Home Improvement Store
Jary, AB - (403) 239-5850
ns at 6:00 AM

Sunnyside Greenhouses Ltd
★★★★★ (35) Garden Center
Jary, AB - (403) 288-3006
ns at 9:00 AM

Golden Acre Garden Centre
★★★★★ (49) Garden Center
Jary, AB - (403) 274-4286
ns at 9:00 AM

[More places](#)



STORE LOCATION AND CONTACT INFORMATION

After the user has viewed the description of the plant they like, they will be able to press the navigation button that will tell them where it is available.

USER GENERATED CONTENT

When user identifies a plant that is not in the database. They will have the option to add the plant themselves into the database. This open ups the possibility of a rapid growth environment.

GESTURE RECOGNITION

These will be shortcuts for photo searching. This feature is for gardeners that want a quick way to access it while using gloves by using a motion gesture.



THANK YOU!



YOU MUST FAIL
AT GARDENING TO
MASTER IT.

QUESTIONS ?