Re:forest.

Smarter Reforestation for a Greener Tomorrow.

Don't forget to check out our demo:
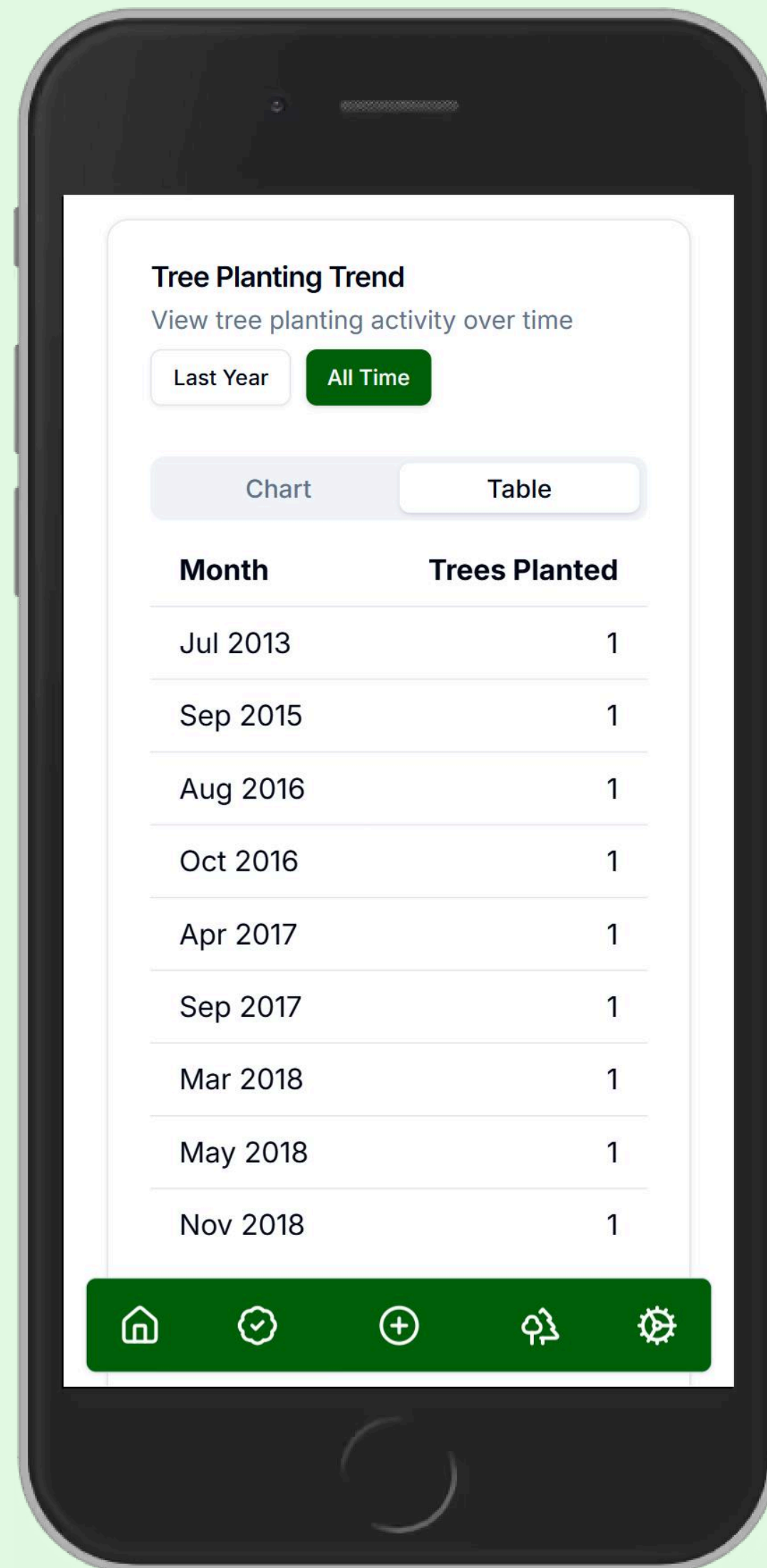https://re-forest.vercel.app

Done by:
- Immanuel Garcia
- Daryn Forman
- Bryan Hernandez
- Duane Arzu
- Amilcar Vasquez
- Christian Hope
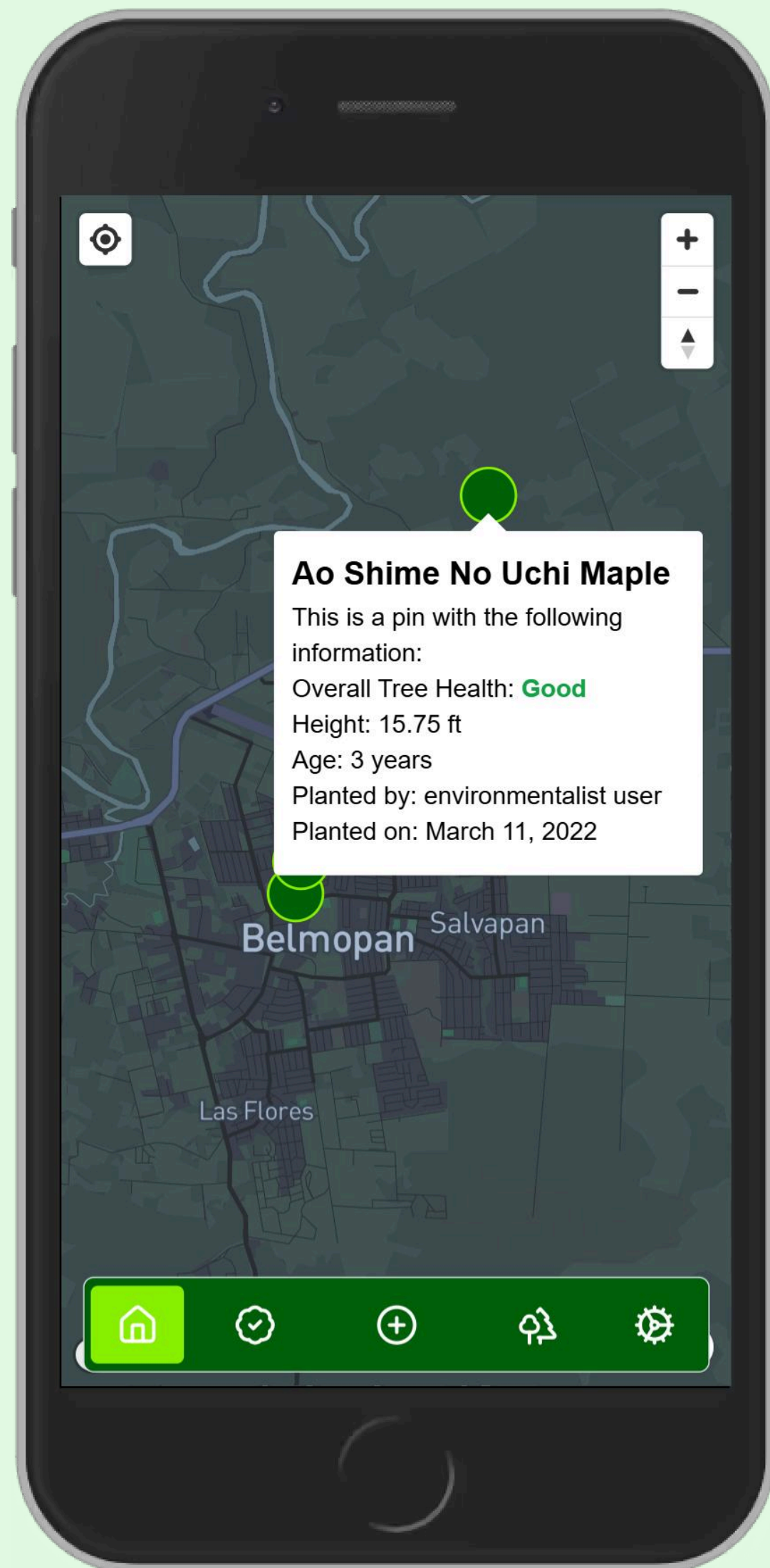- Miguel Vairez

Re:forest

DEMO 2

Background / Problem Statement

- Thousands of trees planted yearly, but survival tracking is inconsistent
- Manual surveys lead to inefficiencies, data gaps, and missed interventions
- Lack of centralized system hinders coordination and policy decisions

Tree Planting Trend
View tree planting activity over time

Last Year | All Time

Chart | Table

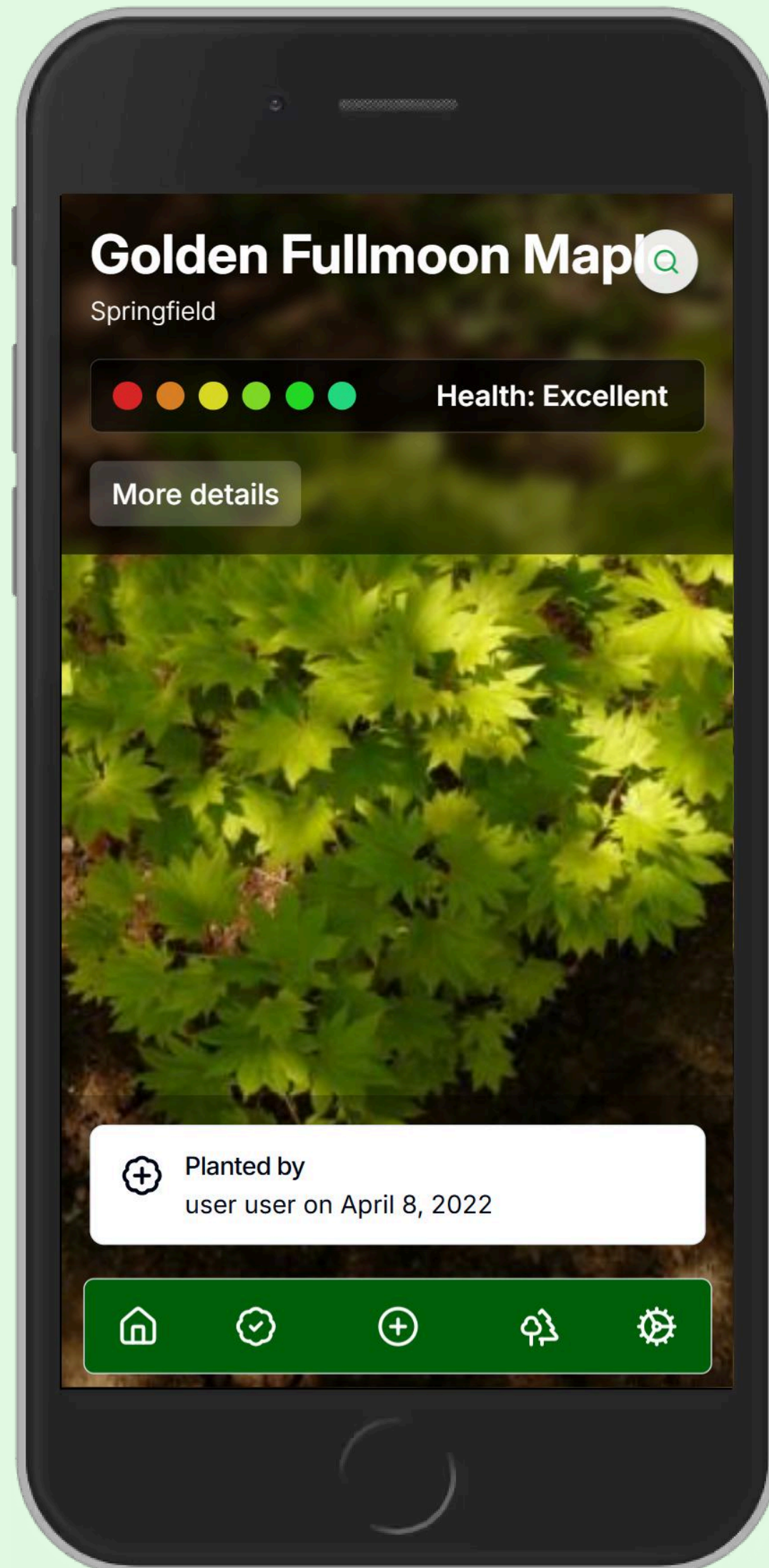| Month	Trees Planted
Jul 2013	1
Sep 2015	1
Aug 2016	1
Oct 2016	1
Apr 2017	1
Sep 2017	1
Mar 2018	1
May 2018	1
Nov 2018	1

Customer Requirements – At a Glance

- Environmental Organizations: Need to track survival rates and generate impact reports
- Government Agencies: Require standardized, real-time data for decision-making
- Volunteers: Want tools to monitor planted trees and receive engagement reminders
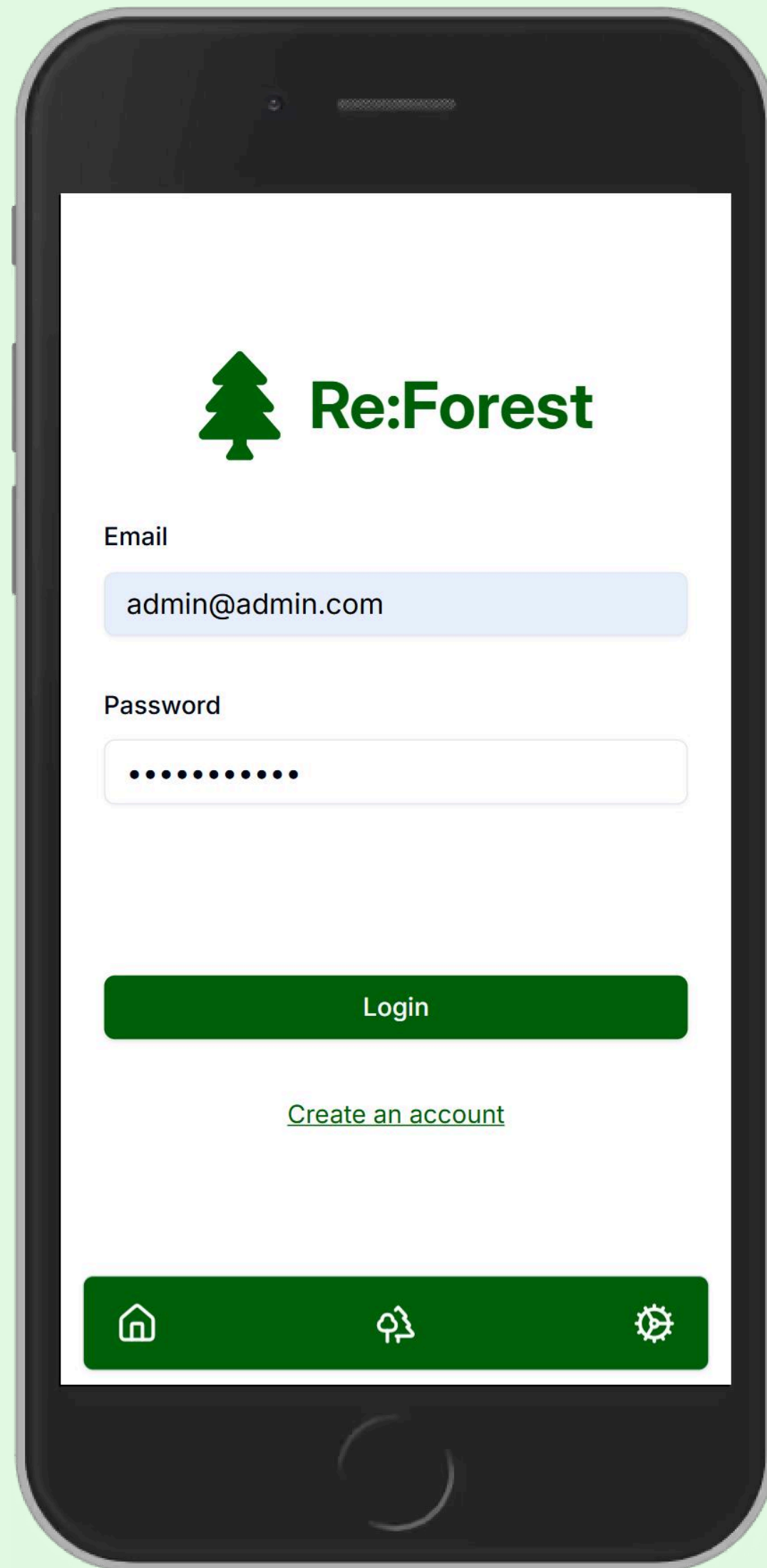
Solution – Introducing Re:Forest

- Records tree location, health, and growth using map + images
- Accessible via mobile for environmentalists, volunteers, and admins
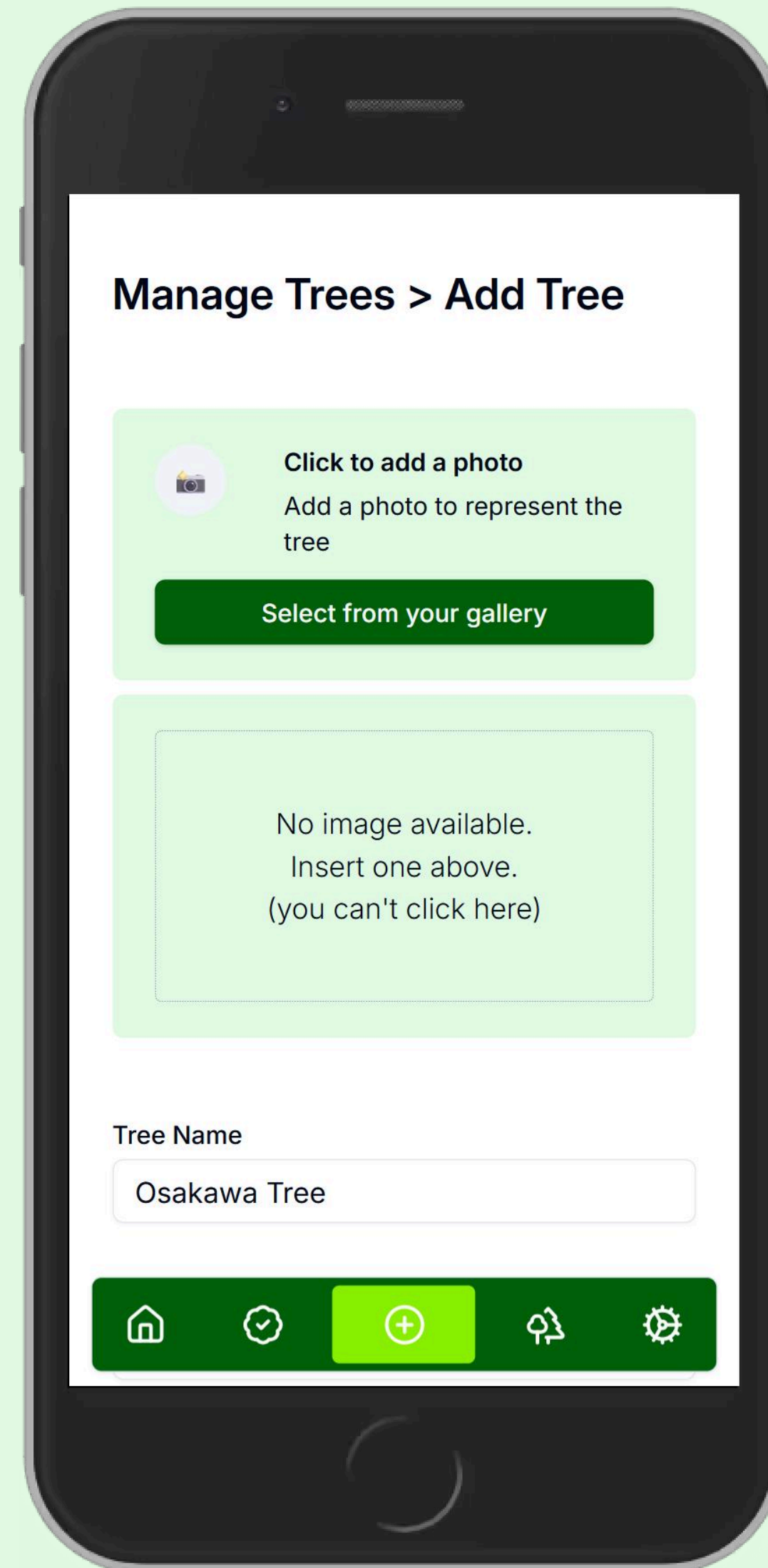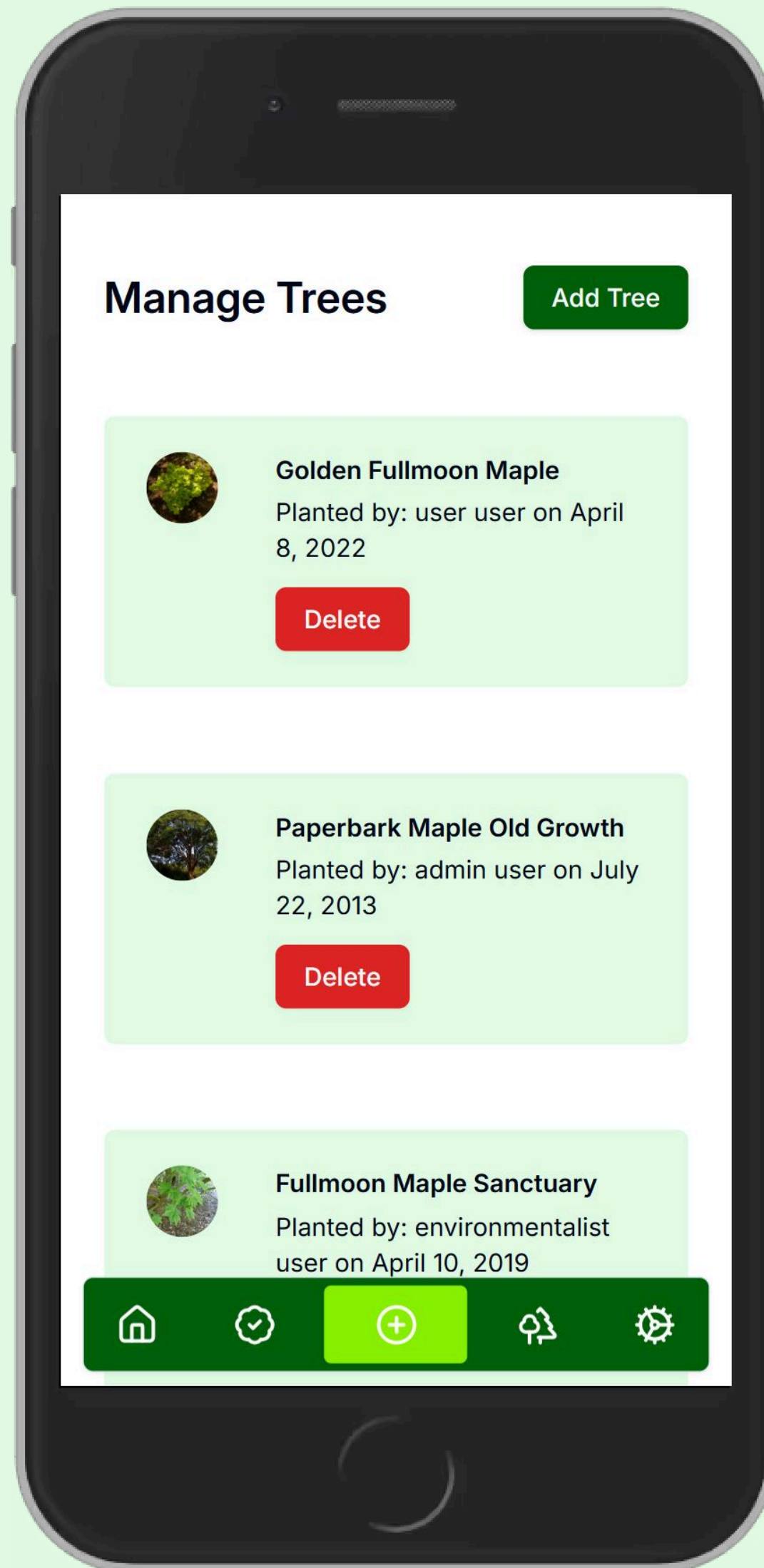- Real-time dashboard, geo-tagging, and role-based interactions

User Login

- Simple login very few keystrokes
- Redirects user to personalized dashboard
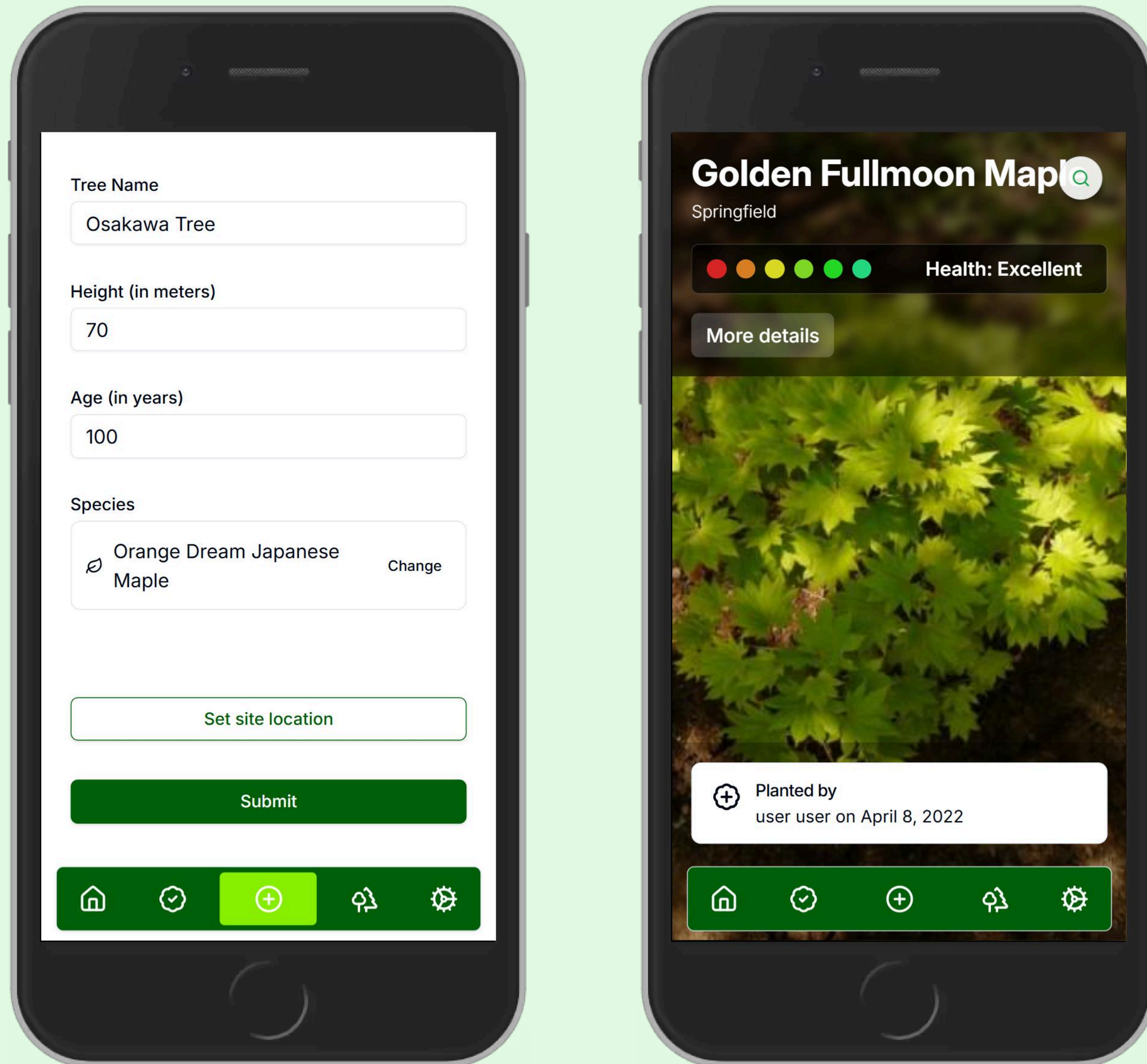- Mobile-ready, secure session management

Add Project

Manage Trees

Add Tree

Golden Fullmoon Maple
Planted by: user user on April 8, 2022

Delete

Paperbark Maple Old Growth
Planted by: admin user on July 22, 2013

Delete

Fullmoon Maple Sanctuary
Planted by: environmentalist user on April 10, 2019

Manage Trees > Add Tree

Click to add a photo
Add a photo to represent the tree

Select from your gallery

No image available.
Insert one above.
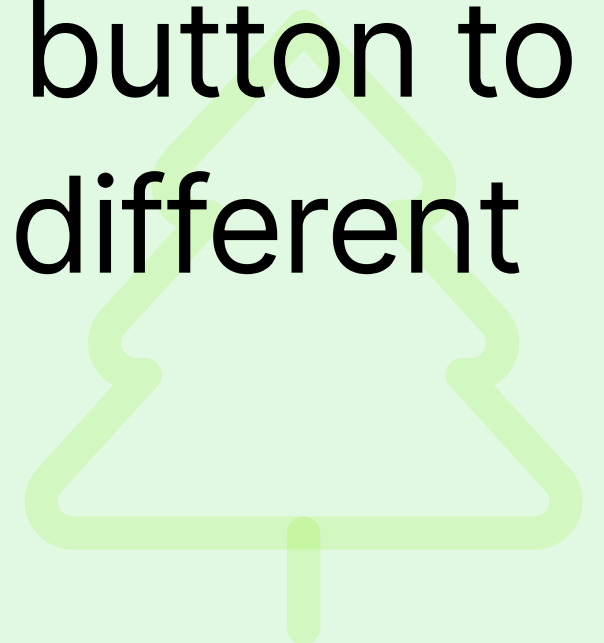(you can't click here)

Tree Name

Osakawa Tree

- Step-by-step flow: Location, Name, Area, Upload Report
- Map interaction optimized for mobile pinch & drag
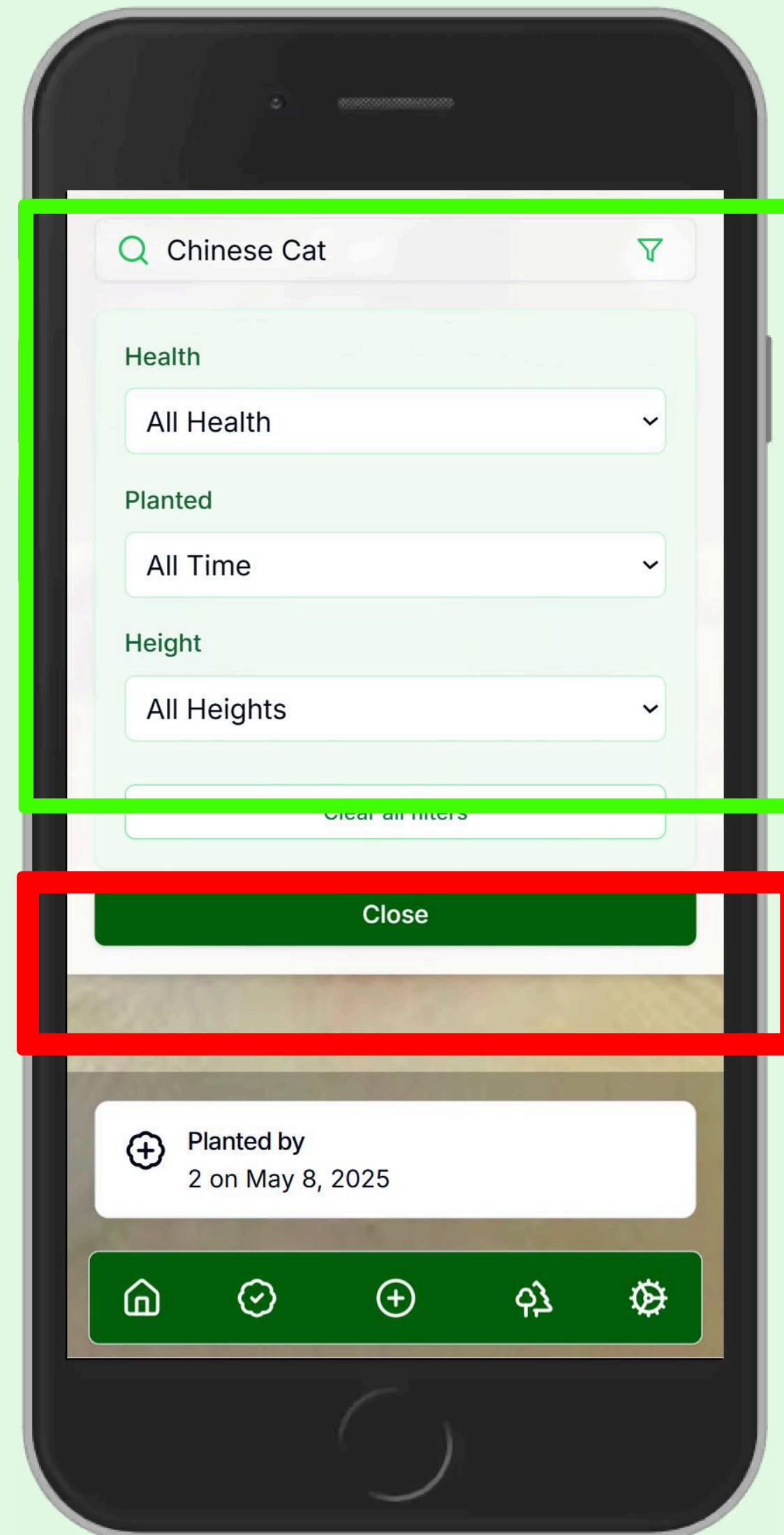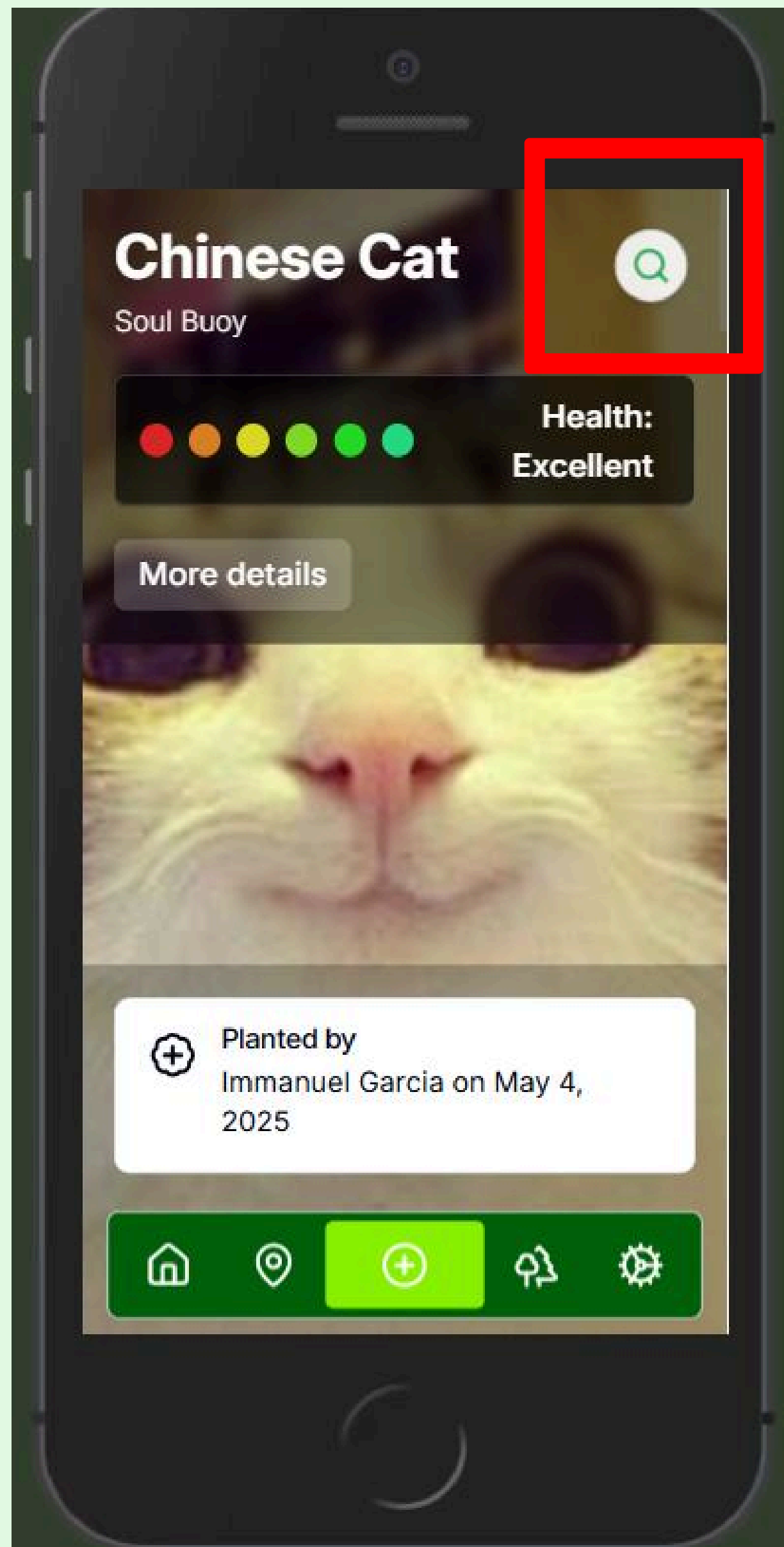- Smart dropdowns and pre-filled data reduce typing

View Tree (Explore Page)

- Allows you to see the tree in detail
- Shows information such as **Tree Name**, **Tree Age**, **Tree Health**, etc.
- Gives an overview of who planted the tree and when
- Shows health as colored dots for better understanding
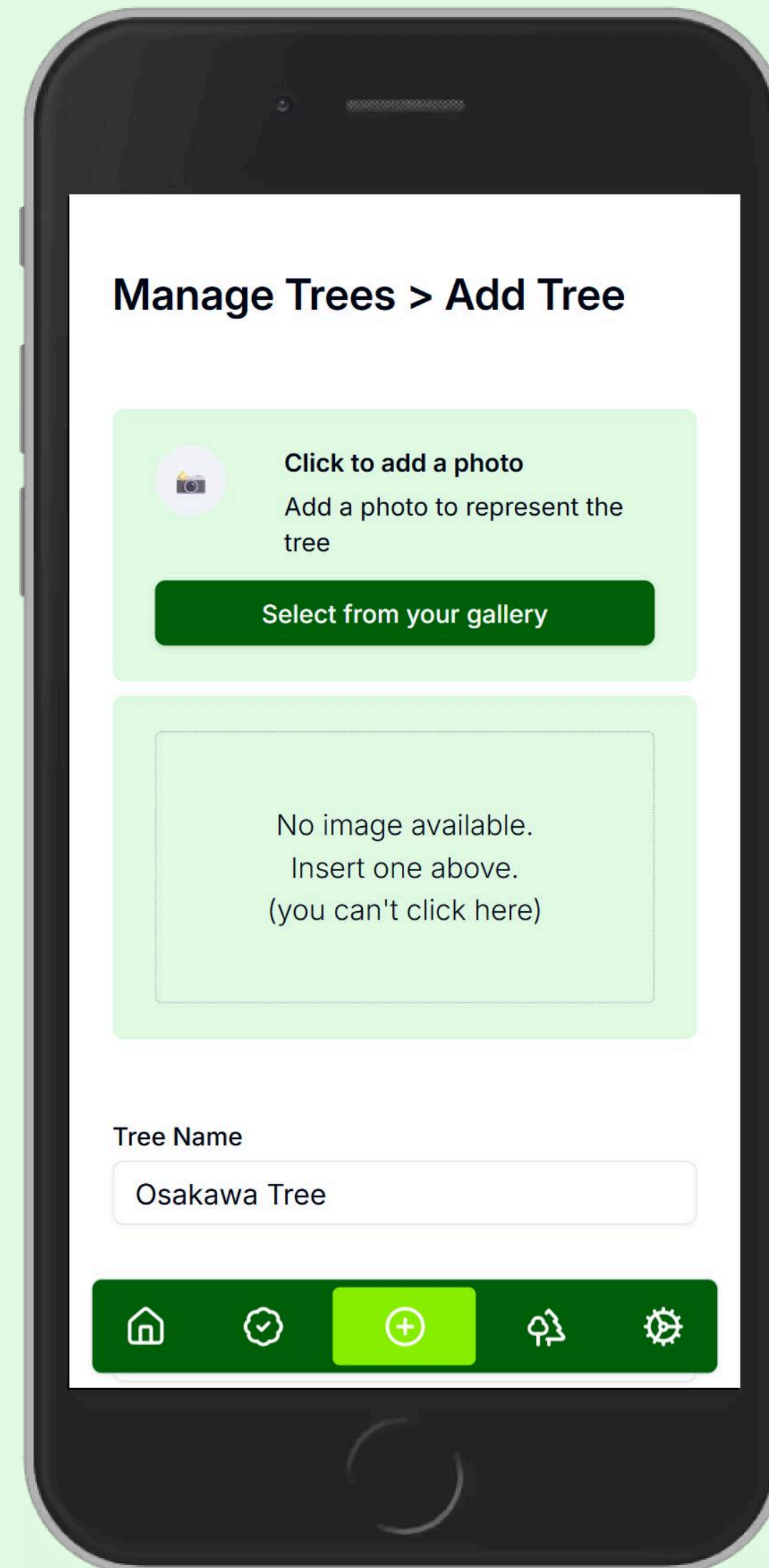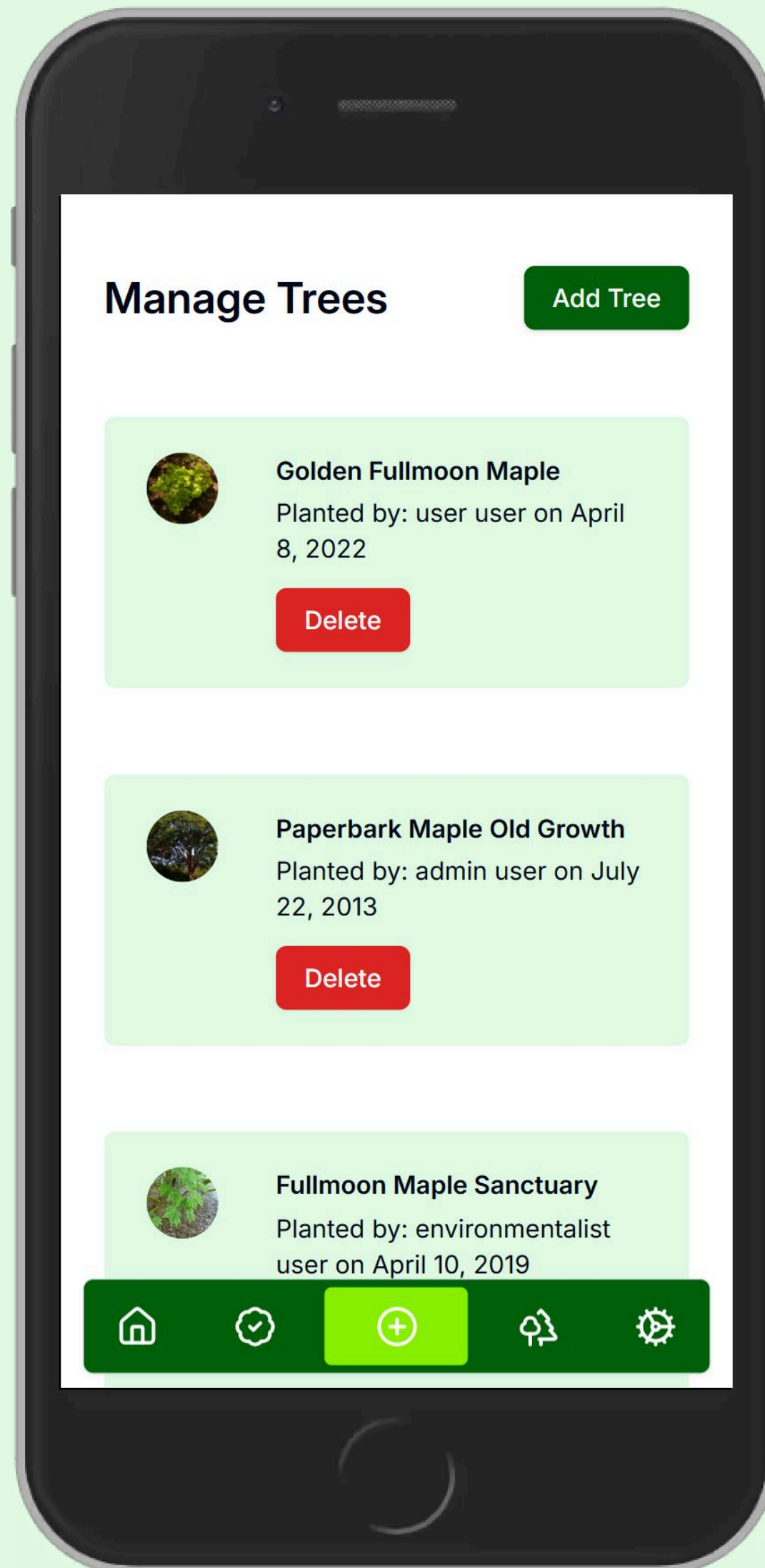- Has a quick access button to search through the different trees.

Search Trees (Explore Page)

- Integrated widget into the explore page providing filters to search through planted trees
- Includes filters such as:
  - Tree health
  - Tree planted date
  - Tree height
- Includes a button to easily clear filters + search criteria
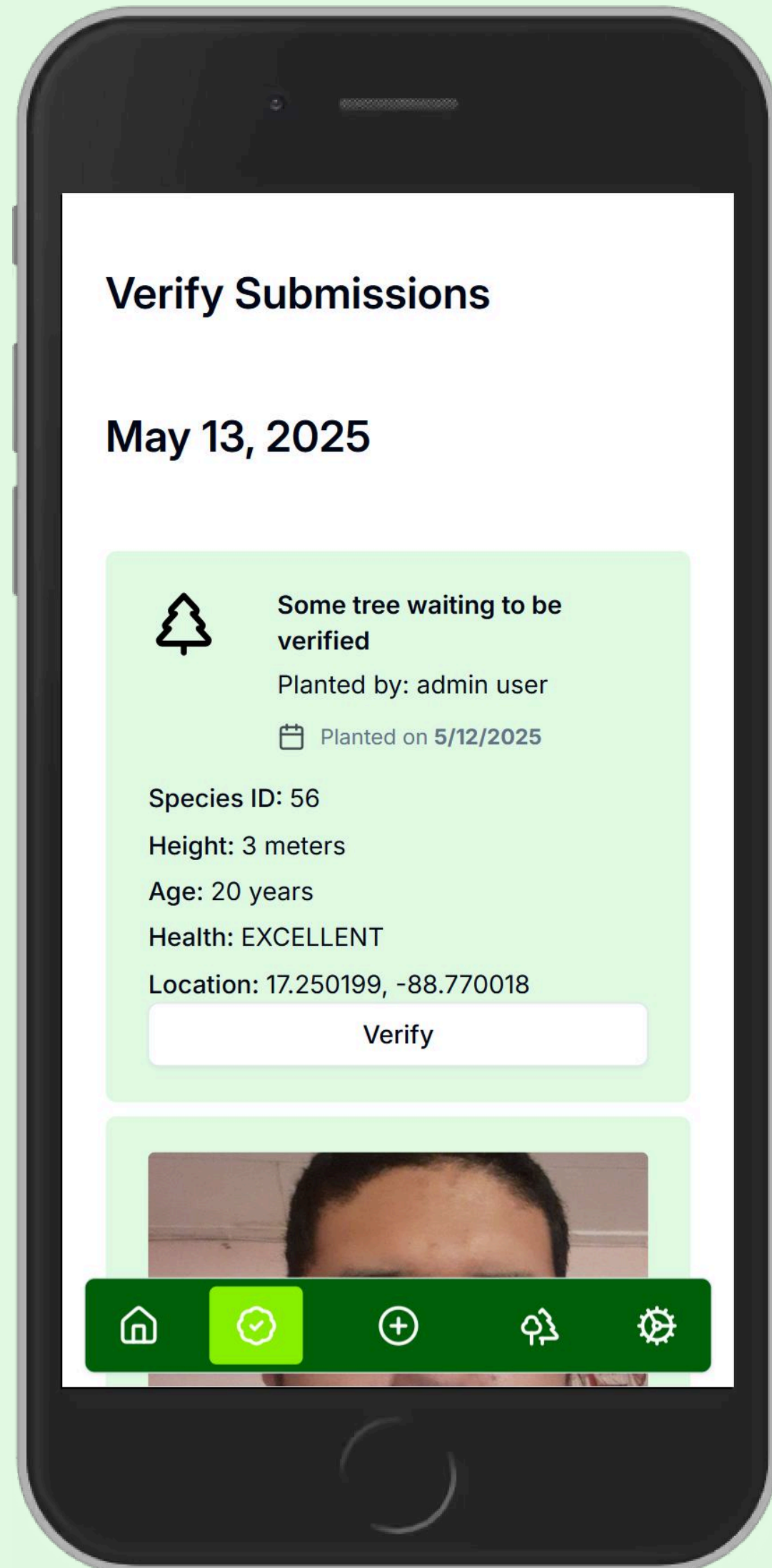- Additionally has a close button to exit the widget

Manage Tree

Manage Trees   Add Tree

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Planted by: admin user on July 22, 2013
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Manage Trees > Add Tree

Click to add a photo
Add a photo to represent the tree
Select from your gallery

No image available.
Insert one above.
(you can't click here)

Tree Name
Osakawa Tree

- The manage tree feature allows the user to add a tree with the correlated information such as **name**, **height**, **age** and the **species**.
- Once a submission is made, it is then published and then it can be deleted if necessary.
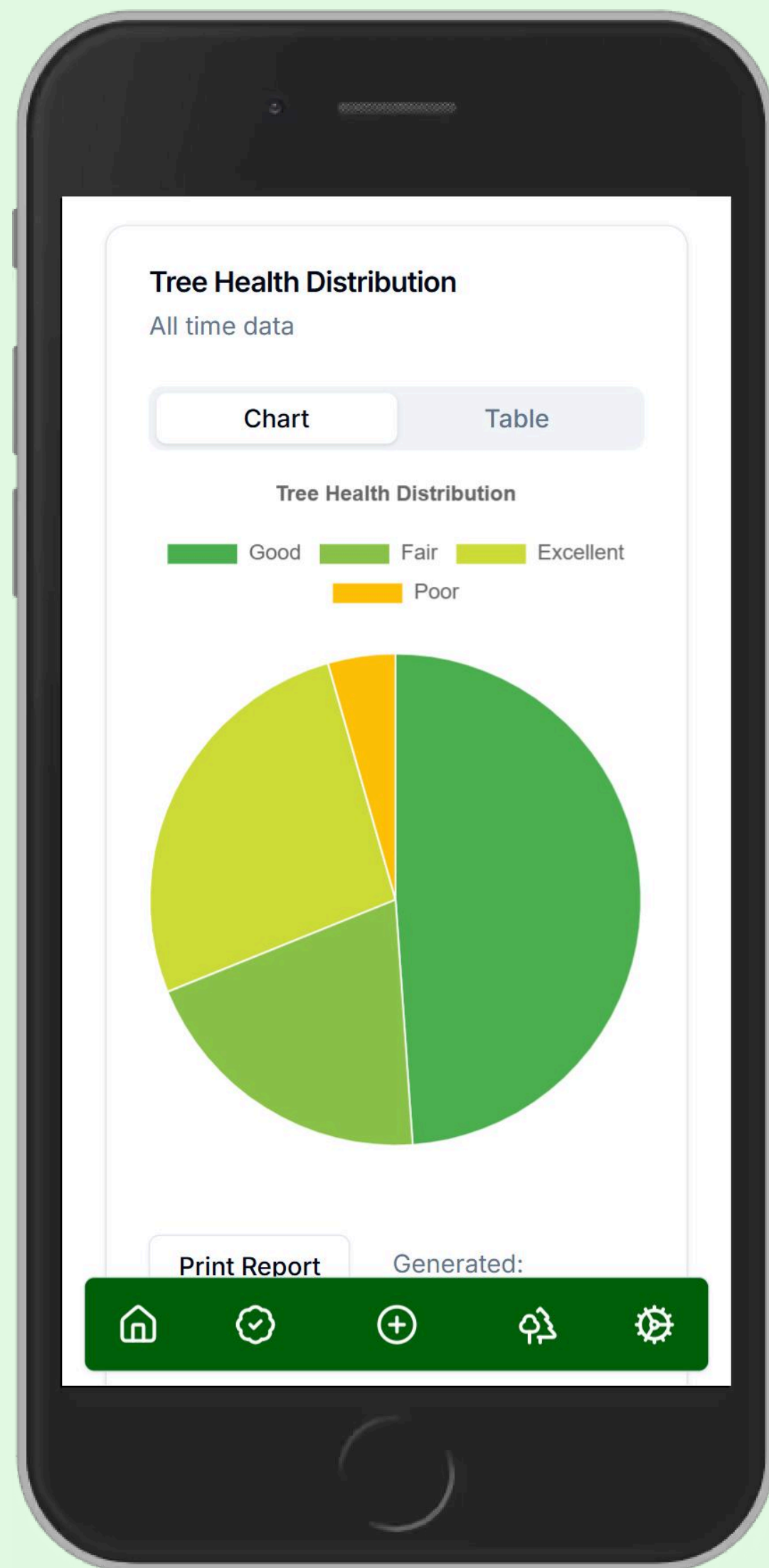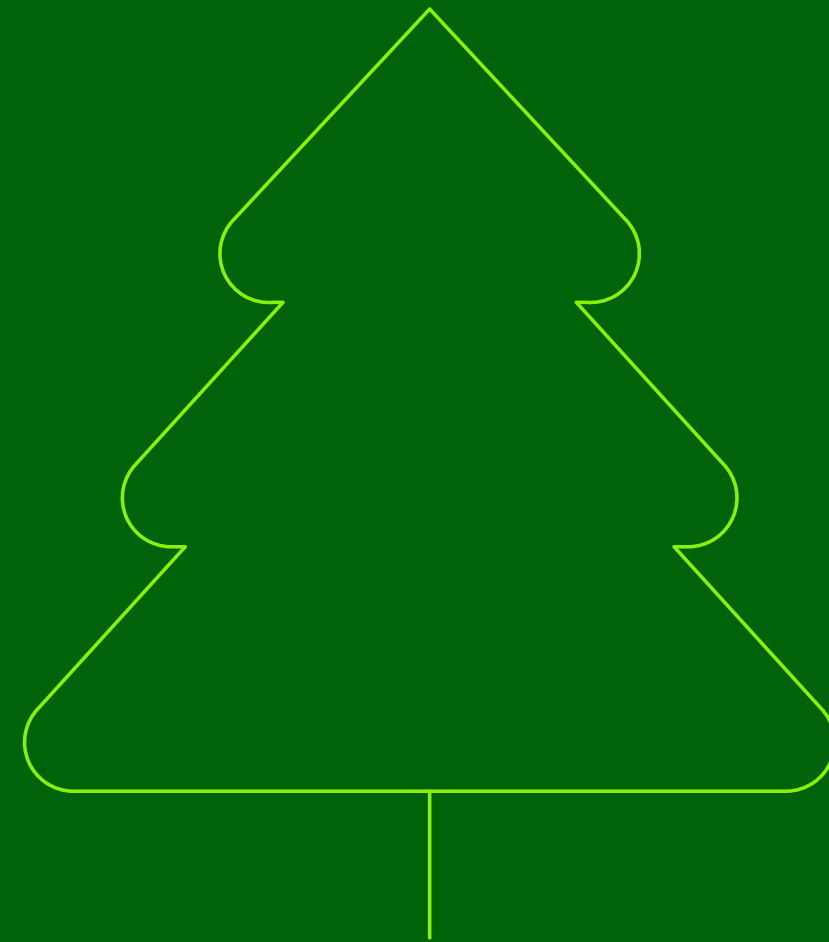
Verify Tree

Verify Submissions

May 13, 2025

Some tree waiting to be verified

Planted by: admin user

Planted on **5/12/2025**

Species ID: 56

Height: 3 meters

Age: 20 years

Health: EXCELLENT

Location: 17.250199, -88.770018

Verify

- Admin dashboard lists pending approvals
- One-click accept/reject with feedback prompt
- Keeps project data accurate and validated

Reports

- Visual reports: survival rates, planting trends, hotspots
- Downloadable for donors, stakeholders, and team debriefs
- Maps and graphs auto-generated from live data

Re:forest

Thank you!