

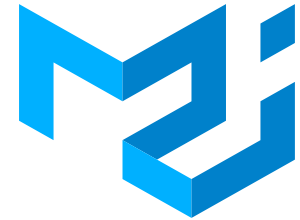
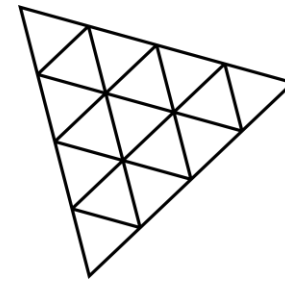
A photograph of a garden bed. The soil is dark and rich, with some dry leaves and twigs scattered on the surface. Several green leafy plants, likely chard or beet greens, are growing in the bed. The leaves are bright green with prominent dark veins. The text "Great Green" is overlaid in the center of the image in a white, serif font.

Great Green

Team Members

- Bhargav Chickmagalur Nanjundappa
- Hitesh Krishnappa
- Fred Amartey

Tech Stack



Project Description

Great-Green is a pioneering web application designed to address the critical challenges of desertification, particularly in desert belts like the Sahel, through innovative reforestation and sustainable land management efforts.

What's the problem?

- The UN has been combating desertification in the Sahara since 2007.
- The Sahara has been encroaching the Sahel region rapidly at a rate of 10% over the last 100 years. This desertification affects the inhabitants of the Sahel region causing dry lands and effectively infertile soil over time.
- The Sahel region is receiving far less rainfall than it did during the first half 20th century.
- The bio-diversity within the region is depreciating year after year.
- The effects of climate change are very apparent in the region.

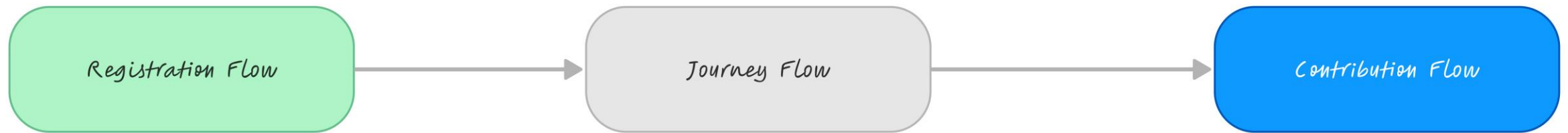
Our solution

The best way to combat this is proactive afforestation in the Sahel region while encouraging bio-diversity.

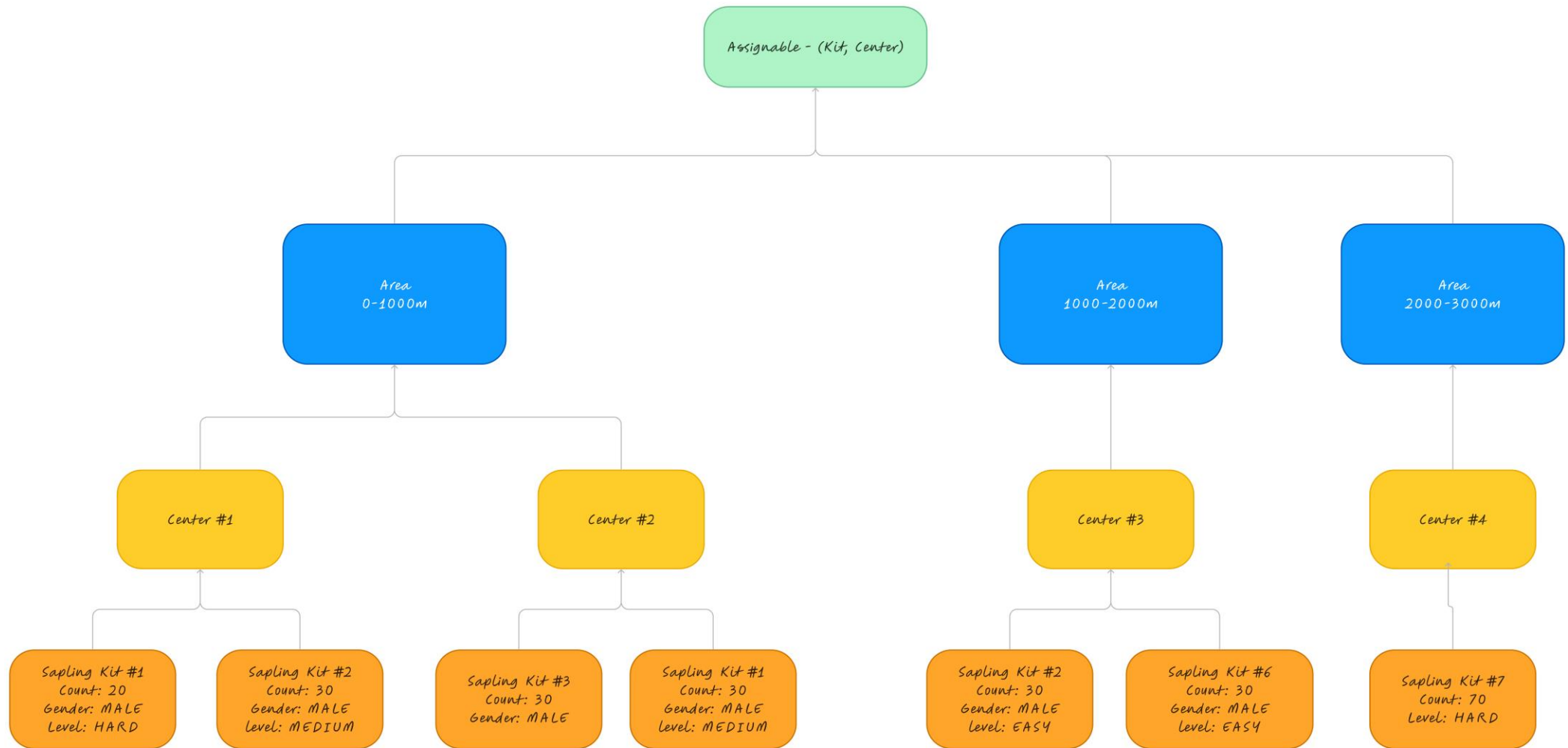
The UN launched the GreatGreenWall Initiative in 2007 but the project hasn't seen any significant advances in years.

We came up with Great Green - an application designed to engage the community and make getting involved easier to facilitate the progress of the GreatGreenWall Initiative.

This is what our application Great Green aims to solve.



High Level User Flow Diagram



Great Green - Kit Assignment Algorithm

Screenshots of UI



Landing page 3D model integration

About Us

This platform not only focuses on planting trees but also introduces a unique model of engaging users in growing diverse crops, plants, and flowers. By integrating technology with environmental stewardship, Great-Green seeks to empower communities, foster biodiversity, and promote a sustainable model of ecological restoration.



Sign up

Name *

Gender



Email *

About Us



Sign up

Name * Gender ▼

Email *

Password *

Minimum 8 characters

Re-enter Password *

Your Current Location



SIGN UP

[Already have an account? Sign in](#)

Sign Up page with leaflet map

Login

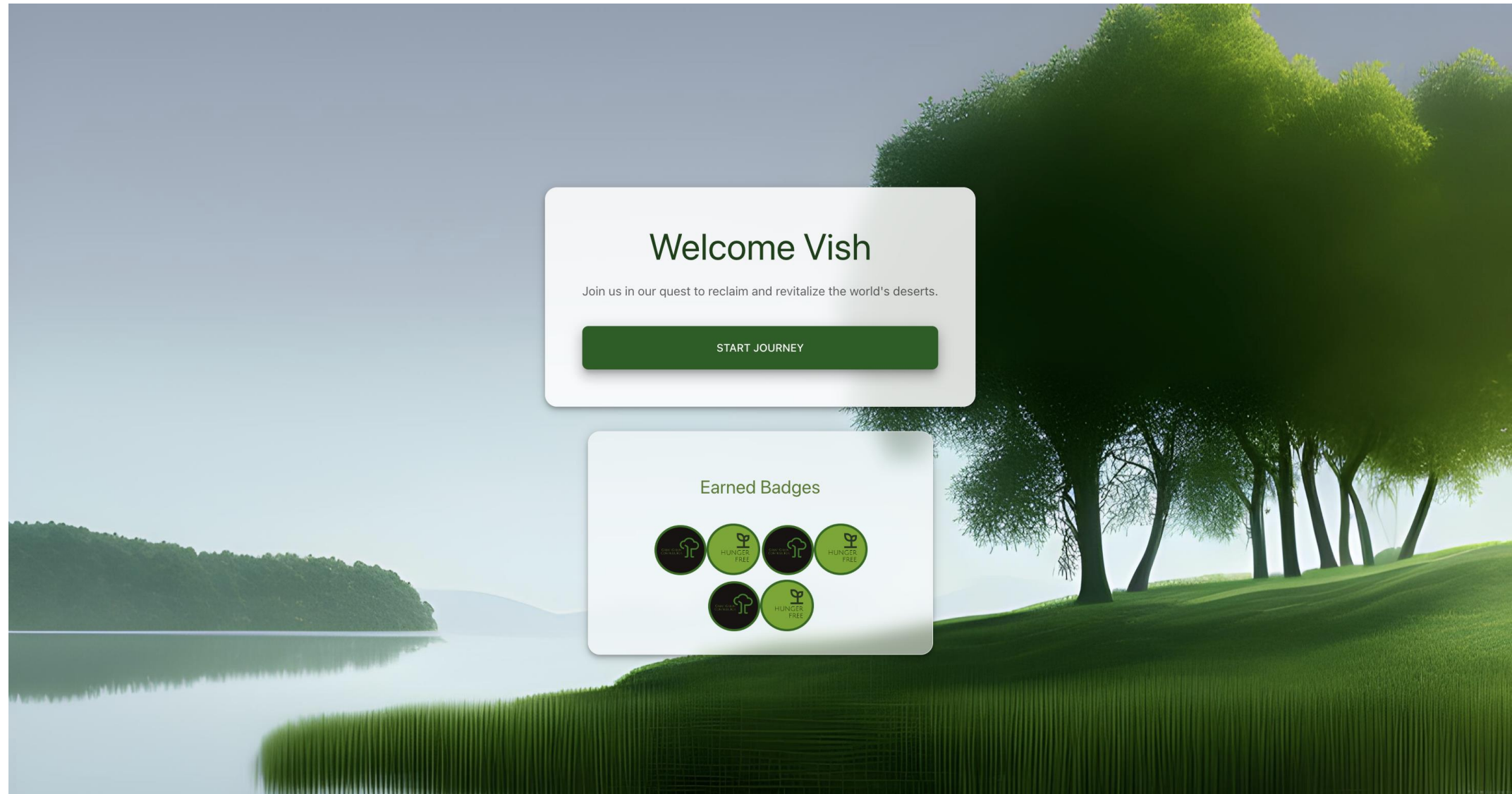


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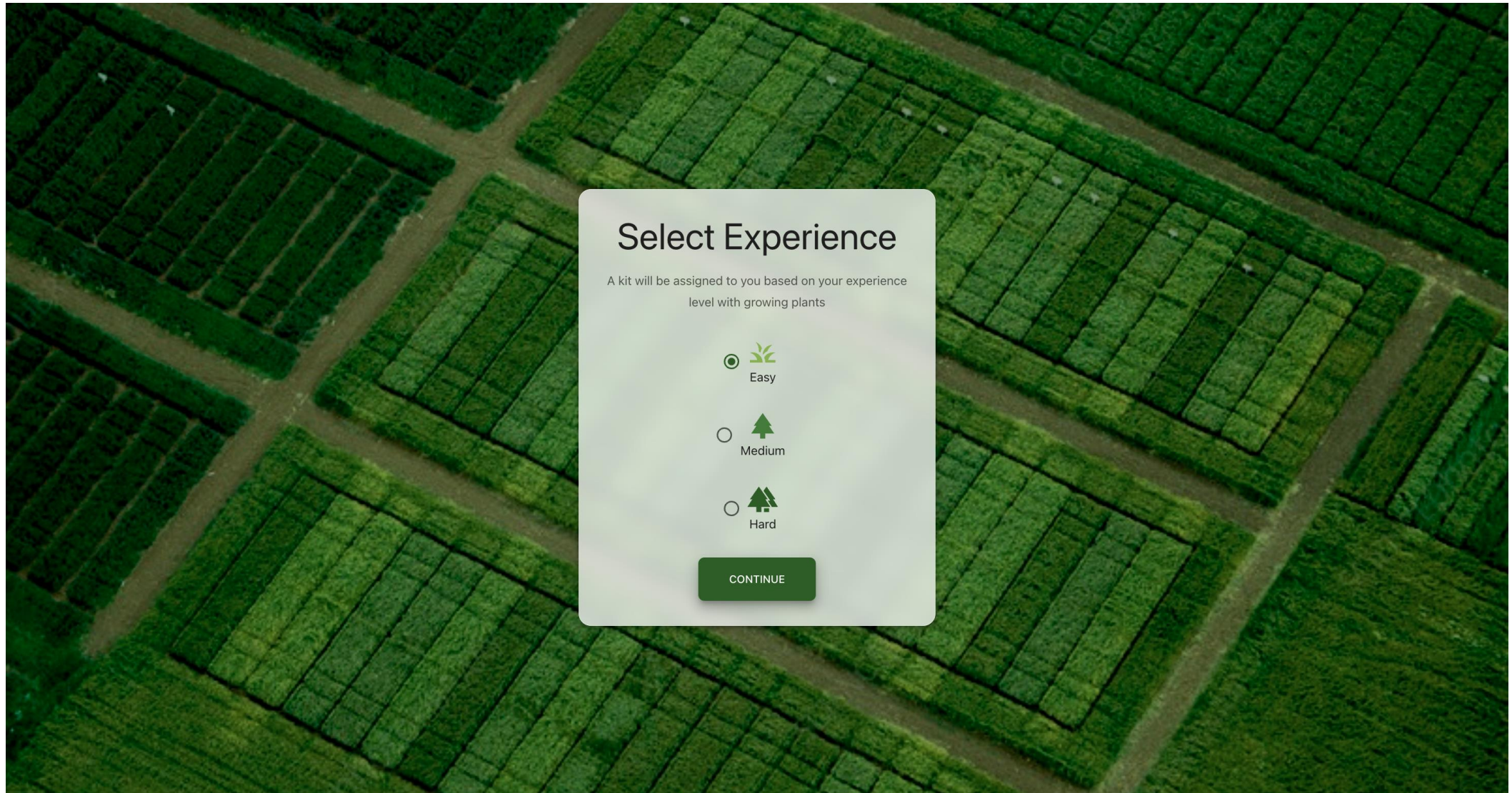
Password

LOGIN

Login page



Dashboard of User



Selecting user experience



Assigning you a kit


We are finding the best available kit based on your location

CONTINUE

Assigning a kit to user




< Journey Information

Assigned Kit



Semanhya

Addon

 GG Peat 80g
  Shovel
  Farming Hat

Journey Details

Your journey information

Journey ID: #6626e05cd35cd09507d0629d

Start Date: 04/22/2024

Status: PICKUP_READY

Level: MEDIUM

Kit Name: Semanhya

Actions

You can collect your kit from the pickup address given and mark complete button. Only mark pickup when you are have recieved the kit.

PICKED UP

Pickup Details

Pickup from the provided address and timings

Name: Great Green Support

Type: UN Center

Address:

Washington Street, Boston, MA

Preferred Timings: 8:00AM - 5:00PM

Journey Instructions

Milestones

No Milestones here

Journey Information

Journey Instructions



Watering Routine

Keep the soil consistently moist but not waterlogged during the germination period, which typically lasts 1-3 weeks. Water the seeded area lightly multiple times per day, especially in hot or dry weather, to prevent the soil from drying out.



Mowing Guidelines

Wait until the grass reaches a height of 3-4 inches before mowing for the first time. Set your mower blade to a height of 2-3 inches to encourage healthy root growth and shade out weeds.

Fertilization Schedule

Apply a balanced fertilizer with a nitrogen-phosphorus-potassium (NPK) ratio suitable for grass during the growing season. Follow package instructions for application rates and timing, typically applying fertilizer every 6-8 weeks.



< Journey Information

Assigned Kit



Semanh
yia

Addon



GG Peat
80g



Shove
l



Farming
Hat

Journey Details

Your journey information

Journey ID: #6626e05cd35cd09507d0629d

Start Date: 04/22/2024

Status: IN_PROGRESS

Level: MEDIUM

Kit Name: Semanhyia

Milestone

Click Add Milestone to add one



Any comments ?

My First Milestone

< BACK

+ ADD MILESTONE

Journey Instructions

Milestones

No Milestones here

ADD MILESTONE

Adding new milestones

Milestones



04/22/2024 18:41:14
My First Milestone



04/22/2024 18:41:14




ADD MILESTONE

List of milestones

REEN


< Journey Information

Assigned Kit




Semanh
ya


Addon



GG Peat
80g



Shove
l



Farming
Hat

Journey Details

Your journey information

Journey ID: #6626e05cd35cd09507d0629d

Start Date: 04/22/2024

Status: IN_PROGRESS

Level: MEDIUM

Kit Name: Semanhya

Actions

Go through the instructions
and track your journey by

Provider Details


Name: Great Green Support


Type: UN Center

Enter Yield Value in (POUND) of Semanhya

20% of the value would be considered for contribution which you will have to submit your center.


Yield Quantity*


 CANCEL

 COMPLETE JOURNEY

Journey Instructions

Milestones

 04/22/2024 18:43:19
My First Milestone



Contribution back to society

My Contributions

<div>JID: #6626e05cd35cd09507d0629d</div> <div><div>POUND</div><div>20</div></div> <div>of Semanhyia</div> <div>Status: <div>PENDING</div></div> <div>Contributed On: 04/22/2024</div> <div>Note: Please complete your contribution by delivering the yeild to Washington Street, Boston, MA</div> <div>DELIVERED</div>	<div>JID: #662697cce90a8cab23d50eac</div> <div><div>POUND</div><div>20</div></div> <div>of Semanhyia</div> <div>Status: <div>COMPLETED</div></div> <div>Contributed On: 04/22/2024</div>	<div>JID: #662692ebe90a8cab23d50aca</div> <div><div>POUND</div><div>20</div></div> <div>of Semanhyia</div> <div>Status: <div>COMPLETED</div></div> <div>Contributed On: 04/22/2024</div>
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My contributions

Thank you

Great Green

INFO6150

Final Project