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# The GreenHero Game App

## Case Study

By Nyah Daniel

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# Problem

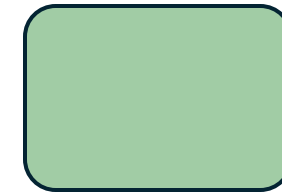
People of all ages live busy lives. With all the different things we want to accomplish throughout the day, we do not actively think about our environment. As of the 21st century, climate change has reached a critical level. Generations of youths and grown ups are not as involved, and that needs to change.

# Solution

GreenHero is an interactive game app that makes being eco-friendly fun. People like to fill whatever free time they have with video games easily downloadable on a phone and can be played anywhere. My idea is to get more people interested in Climate Change with the reward gratification provided by games.

# Design Choices

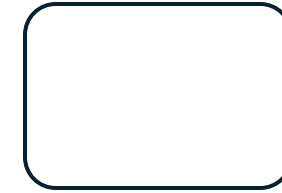
I chose a cool green colors for the palette of the game in order to fit the earthy and eco-friendly theme of the game.



#A1CCA5



#8FB996



#FFFFFF



#709775

I would use a range of light and dark tones of green paired white font to make it stand out.

Meet our game's icon, Lila.

# Fonts Used

Noto Sans- Regular

Inter- Black

Noto Sans- Bold

Inter- Semibold

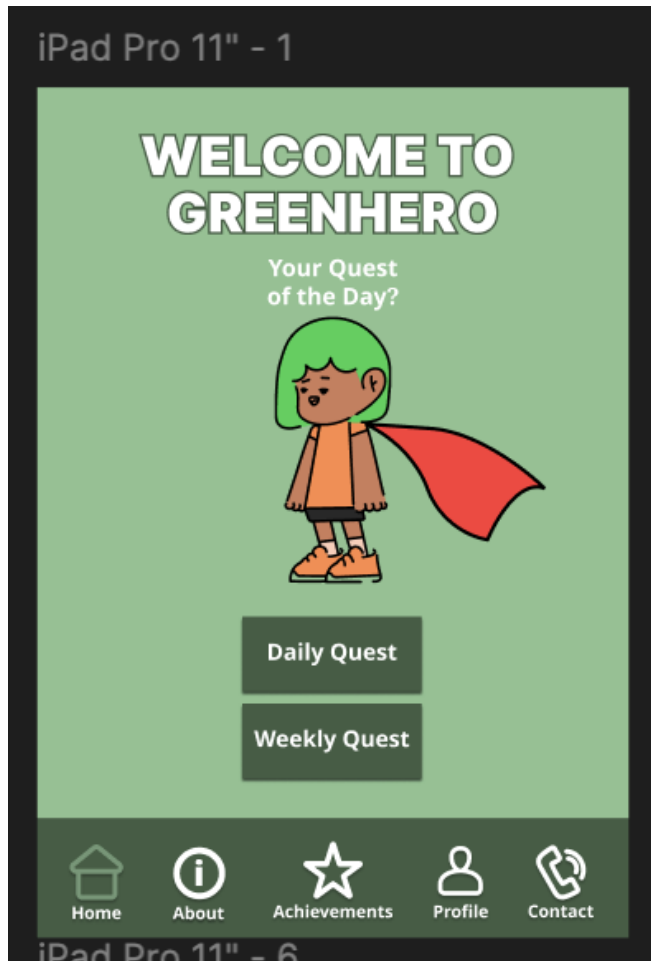
Inter- Regular



# Highlight Screenshots

- 1) Homepage**
- 2) About Section**
- 3) Quest Board**
- 4) Quest Pages**
- 5) Victory Graphic Pages**
- 6) Achievement + Score Stars**

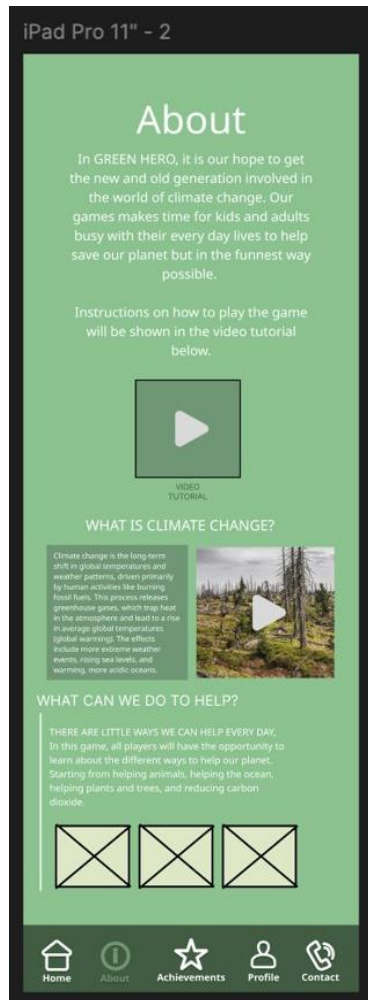
# Homepage



The Homepage is central hub of the GreenHero game App, offering users an interface to access all of its features:

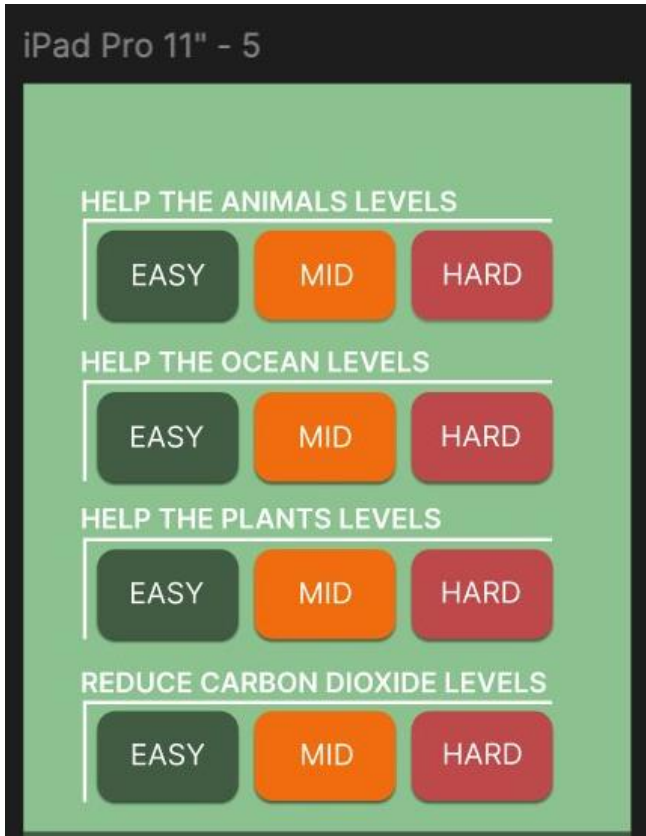
- 1) On the page you are introduced to our character, Lila.
- 2) Daily and Weekly Quests Buttons
- 3) Navigation Menu- Every Page is offered this feature to help users navigate easily to their Home, About, Achievements, Profile, & Contact Page no matter which page they are on

# About Section



About Section is designed to: provide background on the app, instruction video on how to play the game, definition of climate change, a video describing climate change, and what we can do to help.

# Quest Board

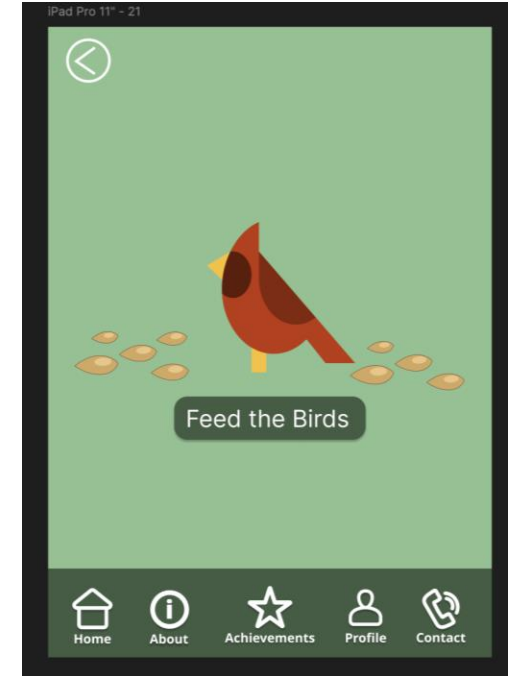
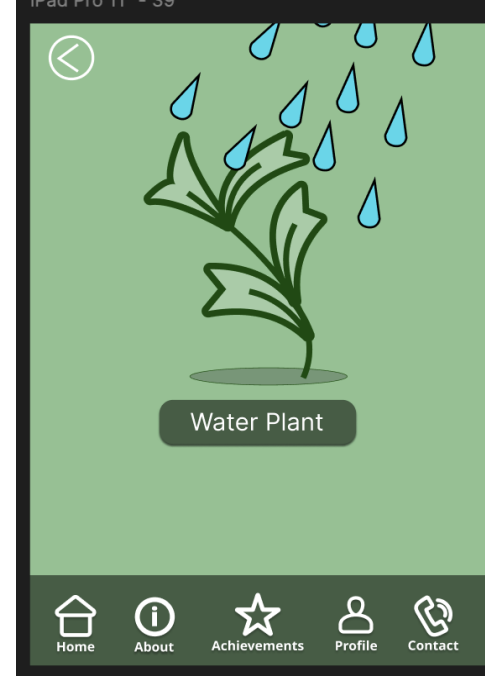


On the Quest Board, users are offered a clean interface for them to choose what type of quest they want:

Users can choose between Easy, Mid, and Hard Levels.

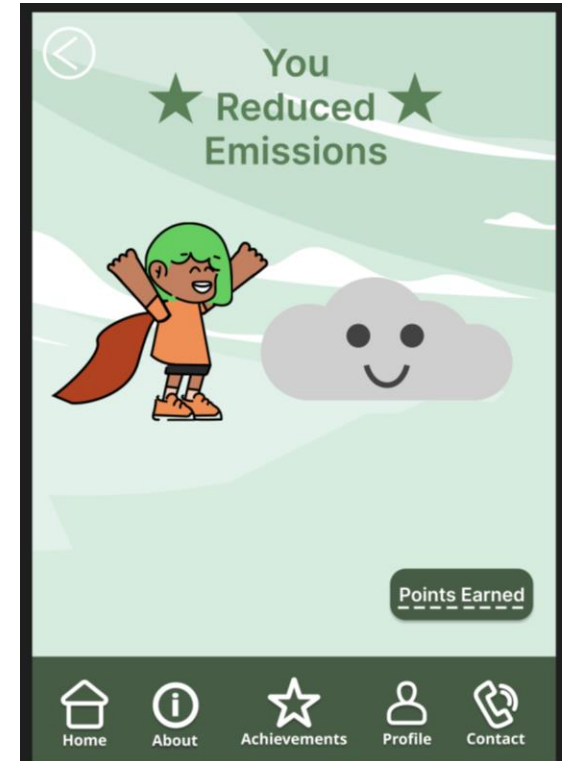
There are different sections of quest: Animal, Ocean, Plants, and Carbon Dioxide related quests.

# Quest Board- Characters



After picking one, users will have the option to go back and pick a new one with the "back button."

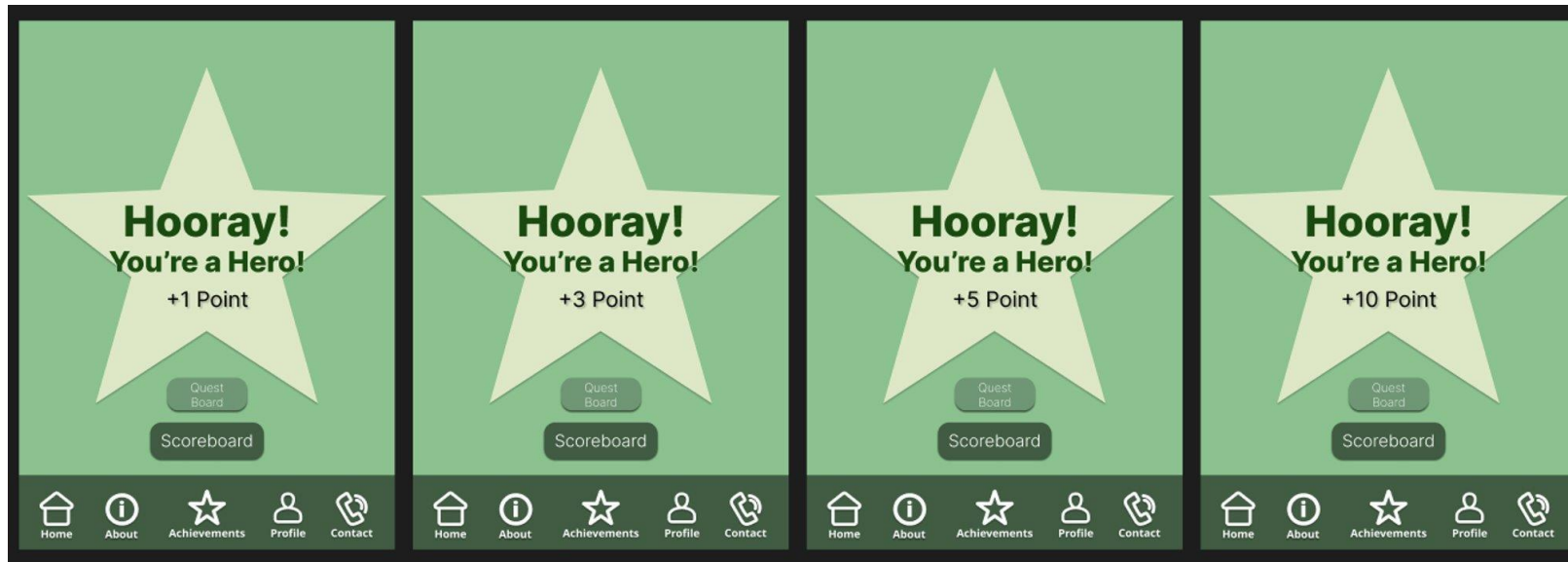
# Victory Graphic Pages



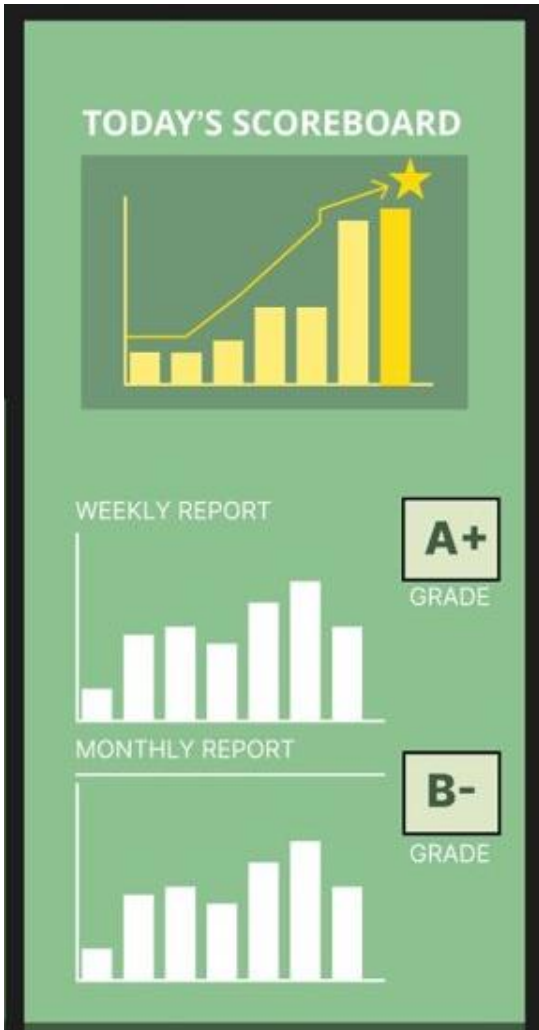
Users are treated to beautiful graphics after they complete their quest.

# Score Stars

- After earning points users get to see how many points you had earned depending on which quest they had done.
- On this page, users are given buttons to either navigate back to the quest board for more quests or seeing score on Achievements page.



# Achievement Page



Achievements Page allows users to track how many points they have earned over the course of a day, week, and month.

1. At the top of the Achievement board, users can track how many points they have earned in the present time.
2. The second line graph will track your week's progress with a letter grade next to it.
3. The third line graph will track your month's progress with a letter grade next to it.



# Personas and Usability Videos:

- 1) Skylar Cromwell**
- 2) Jane Daniel**
- 3) Demosthenes Daniel**



Age	21
Gender	Female
Family Status	Single
Children	0
Job Title	Part-Time Kitchen Staff
Most used device	iPhone

## Usability Test 1 Subject

# Skylar Cromwell

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## Background

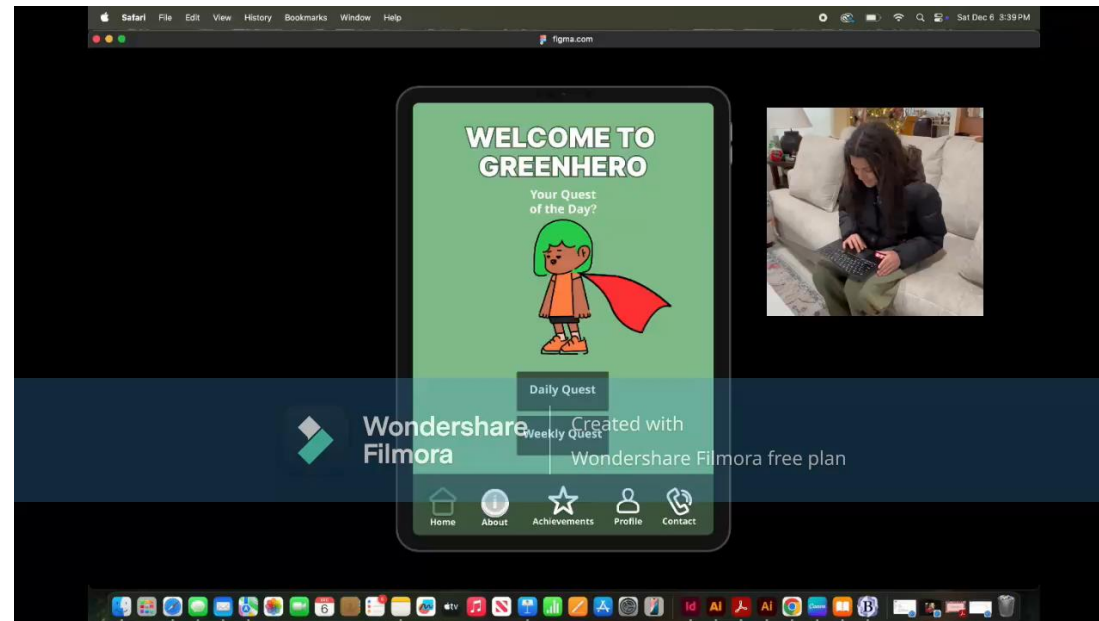
My best friend from childhood who has lived Ellicott City, Maryland since birth. She is currently working at Sinai Hospital's cafeteria. She helps manage her family's household while working

## Goals

- Managing both job hours and household management
- Time Management
- To apply College after working
- Decide her major

# USABILITY VIDEO 1-- Skylar

<https://drive.google.com/file/d/1mZ3d0eJ8quRfQPJjaa3Rf3QBVhK2l8hh/view?usp=sharing>





Age	50
Gender	Female
Family Status	Married
Children	Three
Job Title	Accountant
Most used device	iPhone and PC Computer

## Usability Test 2 Subject

# Jane Mones Daniel

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## Background

Jane is an accountant who lives in Maryland. She has worked in the field for around 20 years, contracting for many different companies over the years. Her current company being Maryland State Retirement Agency.

Currently, she does works hybrid hours. During her remote work days, she typically makes spreadsheets, managing financial records, and preparing other such paperwork on her PC computer.

## Goals

- Managing both job hours and household management
- Time Management
- Manage the monthly food budget
- Manage House Bills

# USABILITY VIDEO 2-- Jane

[https://drive.google.com/file/d/1y7o-3tmvvA4vbLJ6cuEGFuVN5eruv\\_kl/view?usp=sharing](https://drive.google.com/file/d/1y7o-3tmvvA4vbLJ6cuEGFuVN5eruv_kl/view?usp=sharing)



**Age** 53

**Gender** Male

**Family Status** Married

**Children** 3

**Job Title** Paralegal

**Most used device** iPhone and Computer

**Usability Test 3 Subject**

# Demosthenes Gabison Daniel

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## Background

Demosthenes or "Jack" is a retired Coast Guards, chief electrician. Who after retiring in 2017, went to Stevenson University to pursue legal studies. After graduating Bachelors, he got a job as paralegal for a couple years before deciding to complete his Master Degree and graduating in 2025.

## Goals

- Getting hired
- Managing both job hours and household management
- Time Management

# USABILITY VIDEO 3-- Demosthenes

[https://drive.google.com/file/d/1rsSZ42fZgCs5TYwE5dtfOpirr2aG1N-e/view?usp=share\\_link](https://drive.google.com/file/d/1rsSZ42fZgCs5TYwE5dtfOpirr2aG1N-e/view?usp=share_link)

# App Walkthrough

[https://drive.google.com/file/d/1k-jD81vi2\\_PHNWMSBwRIArEafpaSemSi/view?usp=sharing](https://drive.google.com/file/d/1k-jD81vi2_PHNWMSBwRIArEafpaSemSi/view?usp=sharing)

