

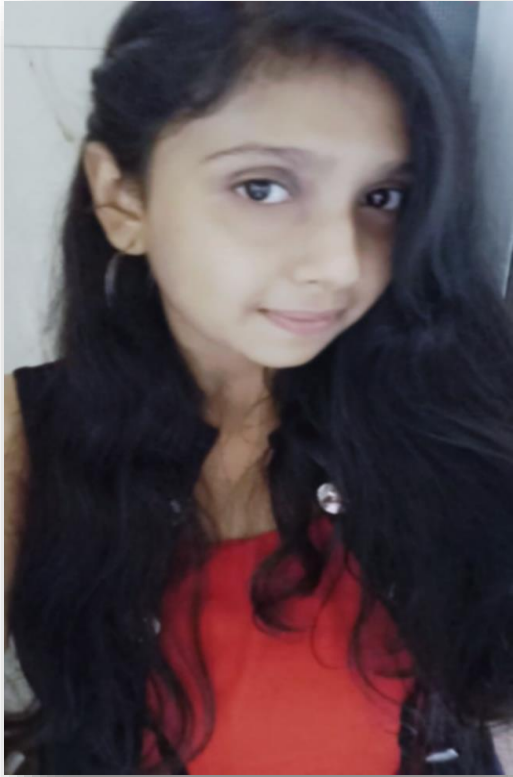


# ◁ECO APP▷

*(An app for environment lovers)*

Theme: **DESIGN FOR ENVIRONMENT**

<23-05-2022 - IIT (ISM) DHANBAD>



- Pre-final year student in **INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES) ,DHANBAD.**
- Specializing in Department of Mechanical Engineering.
- Always **enthusiastic** to learn and explore new fields.
- Skilled in **Coding ,Designing, Communications and Event planning.**

**Kadambala Meghana**

# Problem Identified

Difficulty in surfing different apps to get information about environment due to busy schedule

## PROBLEM DESCRIPTION

Meghana, a nature lover, who is also a software engineer wants to serve for nature and tries to learn more about the nature so that she can protect the environment. But due to her busy schedule she is unable to collect information about environment as she is not getting enough time to surf various apps and websites.





# Urgency/Importance

## WHY IS IT AN URGENT PROBLEM?

This is an important problem as we being responsible citizens it is our duty to protect nature, for that we need to know how much carbon are we emitting , how are the weather conditions etc.

- Though carbon dioxide plays an important role in the life of the plants and helps in ensuring that the earth remains warm, increasing it in the atmosphere is what causes global warming
- A quick change in the weather can lead to many underlying health conditions, including chronic diseases like heart conditions, asthma and more.
- None of this would exist, though, without the abundant natural resources we inherited from the planet itself..



# Target User Persona

*USER1 : ADULT (Female)*

## PROFILE & DEMOGRAPHICS

**Job Title:** Software Engineer

**Gender:** Male

**Family and Social Setting:** Small Family

**Income:** 80,000

**Education:** B-Tech Environmental Engineering

## FEELINGS

**Worries :** Concerned about nature as she is unable to check all the required details regularly due to busy life

**Influences:** As there are different apps for monitoring , controlling and calculating different cause of environmental problems

## GOALS & VALUES

**Goals:** To protect the nature

**Motivations:** To provide green, safe nature for future generations.

## PAIN POINTS

**Fears:** Being unable to prevent environmental problems

**Frustrations:** No proper medium for analysing and controlling problems

**Challenges:** Need to motivate people and have thorough check of natural resources

# Explorations

## SOLUTIONS & IDEAS

- Calculation of carbon footprint so that we know how our daily habits are causing carbon emissions, so that accordingly we will manage.
- Planting trees daily.
- Being eco-friendly and saving natural resources..



# Final Solution & Innovation

**HOW DOES YOUR SOLUTION ADDRESS THE PROBLEM IDENTIFIED?**

**HOW IS IT INNOVATIVE?**

I designed a app to solve this problem to extent and to help nature lovers to know what is the condition of environment.

- This app shows user how much energy they are wasting/saving , how much they are responsible for carbon emissions, tells them the weather conditions etc.
- It also tells information about limited resources.
- It provides an option of eco-friendly shopping which has products which are recyclable.
- It also provide a medium to donate money for plantation

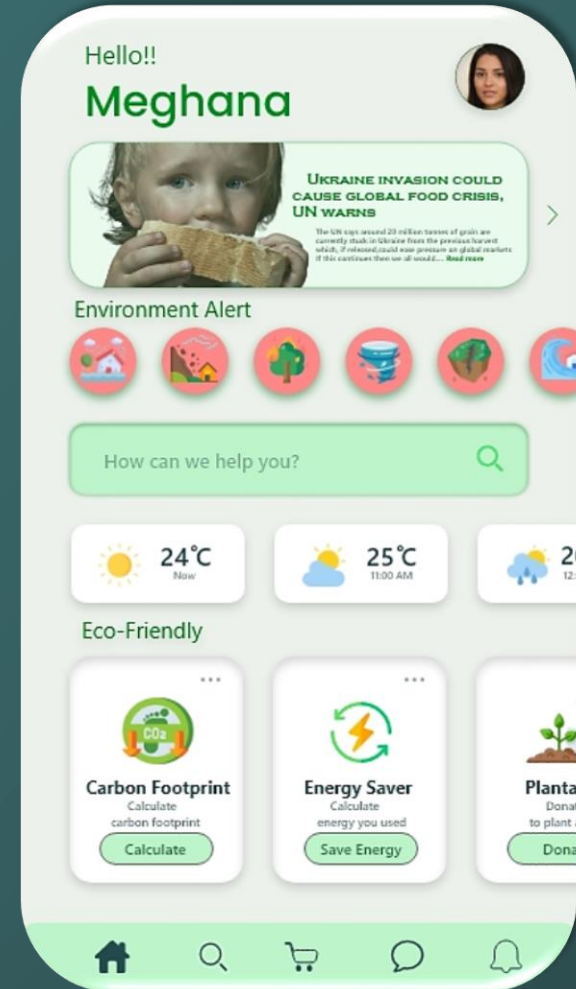


# User Experience

## HOW DOES THE UX OF YOUR SOLUTION LOOK LIKE?

I used Adobe XD as a medium to convey my idea in the form of an app.

This is the sample user interface of how the user who is using the app experience. The colors and the data provided here are just for the time sake and will be modified accordingly when it comes to use.





Hello!!

Meghana



Shows us the information or news about limited resources Daily

Environment Alert



Gives us alerts before natural calamities or we can report about the calamities

How can we help you?



24°C  
Now



25°C  
11:00 AM



25°C  
12:00 PM

Shows us the weather conditions

Eco-Friendly

Shows us the amount of energy we saved/ wasted



Carbon Footprint

Calculate carbon footprint

Calculate



Energy Saver

Calculate energy you used

Save Energy



Plantation

Donate to plant

Donate

Medium to donate money for plantation of trees

Helps to calculate carbon footprint by tracking our daily actions

It is a eco-friendly shopping cart which has the recycled products





My Journey



## Carbon Footprint

Today's Journey Time

05:45:37 Hours



Shows us time we spent in travelling per day.

### My Journey Mode

Means by which I travel frequently



Train Travel

Time travelled and carbon footprint



Bus Travel

Time travelled and carbon footprint

5 hrs 50 KG



Car Travel

Time travelled and carbon footprint

Shows us time we spent in travelling in different means of transport and also calculates the carbon footprint



Srikakulam, Andhrapradesh



## Current Weather



Rainy

24°

Might form a Rainbow

Wind Speed

6 km/h

Humidity

70 %

Chance of rain

95 %

Sunrise

5:30 AM

Sunset

6:30 PM

Pressure

1005 hPa



24°C

Now



25°C

11:00 AM

Shows us the current weather condition

Shows us the current weather statistics

Predicts the upcoming weather conditions



Srikakulam, Andhrapradesh



## Today's Consumption



Consumption today

6.4 kw/h

Energy saved

2.4 kw/h

Shows us our energy consumption and energy we saved

Yesterday

10.4 kw/h

Today

6.4 kw/h

Optimum

7.0 kw/h

Previous Reading

543210

Present Reading

553240

Optimum Diff

10000

Shows us our electricity usage statistics

### Turned On Devices



Washing Machine



Dish Washer



Shows all the turned on devices which uses electricity





## UKRAINE INVASION COULD CAUSE GLOBAL FOOD CRISIS, UN WARNS

The UN says around 20 million tonnes of grain are currently stuck in Ukraine from the previous harvest which, if needed could ease pressure on global markets. The situation is worst. If this continues then we all would.... [Read more](#)

Things which are in **High Scarcity**



### Wheat

Wheat is most used product but now it has been in scarcity due to these wars as there is no cultivation from



### Crude Oil

Crude Oil is most used product but now it has been in scarcity due to these wars as there is no cultivation from



Things which are in **Slight Scarcity**



### Corn

Corn is most used product but now it has been in scarcity due to these wars as there is no cultivation from



### Fertilizer

Fertilizer is most used product but now it has been in



Shows us daily news on limited resources

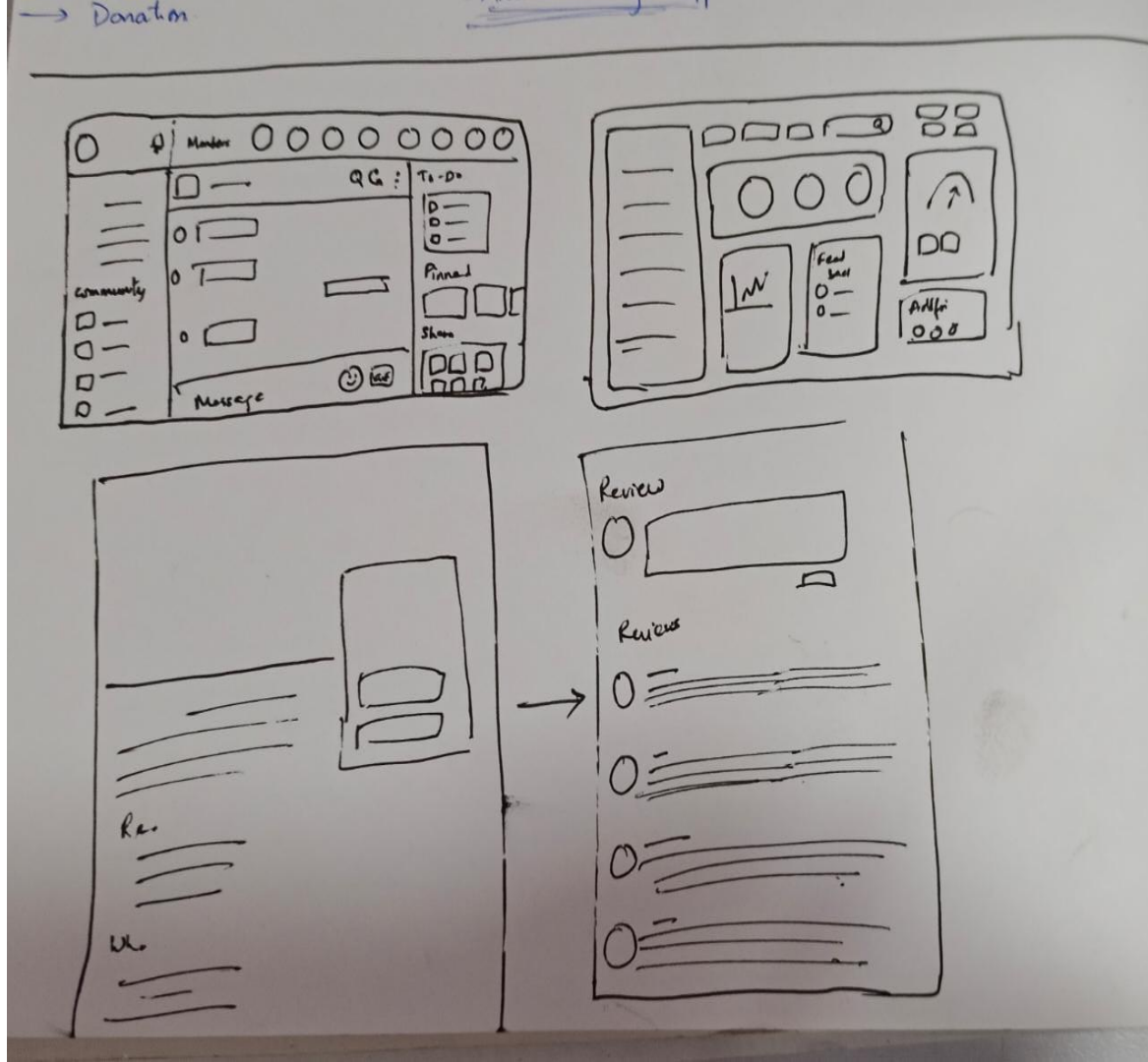
Using the information and statistics gives us information about highly scarce resources

Using the information and statistics gives us information about slightly scarce resources

# Design Process

## DESIGN PROCESS FOLLOWED

1. Firstly, I noted down list of things required for an user so that they can get good scores.
2. Then drew a rough wireframe adding the requirements of the user to wireframe as shown in the figure .
3. Then using Adobe XD , I implemented my design by adding suitable icons which describe the specific functions.



# Impact on the Society

## IMPACT OF YOUR SOLUTION

- As my design is best suited for the users who have self-interest to protect nature. It helps them to know more about the nature and pollution they are causing.
- Daily reports and analysis makes them to take it as a challenge and will be able to reduce carbon emissions and save energy
- Daily news on scarcity of resources develops a habit of saving and proper use of resources.
- They can make plans accordingly with the help of weather predictions.







THANK YOU

