HANDOUT

PROJECT REPORT

Submitted by

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BONAFIDE CERTIFICATE

Certified that this project report titled **"HANDOUT"** is the bonafide work of **AMAN M (2019272003)** who carried out project work under my supervision. Certified further that to the best of my knowledge and belief, the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or an award was conferred on an earlier occasion on this or any other candidate.

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ABSTRACT

This project is used to manage wastage foods in a useful way. Every day the people are wasting lots of foods. So, we have to reduce that food wastage problem through online. If anyone has wastage foods and they are willing to donate food. They can login to the application after entering their food details. They can enter their food details and send the request to the needy people. Once they accept the request the donator can visit the place and he can donate the food. The address and contact details of donor will be available in application. The donator can create the account and whenever they are having wastage food, they can login and send request. This project is food redistribution is an enormously successful social innovation that tackles food waste and food poverty. The user's details are maintained confidential because it maintains a separate account for each user.

CHAPTER 1
INTRODUCTION

1.1 Introduction

The sharp increase in the amount of wastage in terms of food. It makes the need for charity in terms of donation. ‘Handout’ that provides a platform for donating old stuff and leftover food to all needy people. It provides information about the motivation to come up with such an application, thereby describing the existing donation system and how the proposed product works for the betterment of society. The product is shown to be an effective means of donating things to organizations, over the internet. It shows the potential for avoiding the wastage of food, clothes. In highly populated countries like India, food wastage is a disturbing issue. The streets, garbage bins and landfills have ample proof to prove it. Marriages, canteens, restaurants, social and family get-togethers and functions expel out so much food. Food wastage is not only an indication of hunger or pollution, but also of many economic problems.

The high standard of living has resulted in the wastage of food, clothes, etc. Because of quick changes in habits and lifestyle. Instead of wasting these things we can put them in use by donating them to various organizations such as orphanages, old age homes, etc. The product is an internet-based android application that basically aims at charity through donations. Most people don't realize how much food they throw away every day from uneaten leftovers to spoiled produce. About 95 percent of the food we throw away ends up in landfills or combustion facilities. In 2013, we disposed more than 35 million tons of food waste. Many people wish to donate things to needy organizations. Also, many organizations wish to ask for various things required by them such as clothes, food grains, books,etc., but there is no source available through which they can satisfy their requirements.

Thereby, this application has been developed through which people can donate items as per their capacity and the application also allows organizations to put up their requests, i.e. items required by them, if any. The majority of the population today uses smart phones with active internet connection, which is the basic requirement for this product to function properly.

1.2 Motivation

In this fast-moving world many people are poor and needy one is around us. Many people are unable to get their single meal in day and some other people are not able to get basic need in some day. If anyone have extra food because of any function or in their home it will be become waste because instantly there is no way to share with anyone if they are having lots of food. Even if they want to give that extra food to any orphanage or poor people, they don't have time or don't have an idea about that. So that we have create an application so that the user can donate extra food to poor people or nearby orphanage.

1.4 Proposed System

In proposed system we are reduce that food wastage. This project is food redistribution is an enormously successful social innovation that tackles food waste and food poverty. The donator can find the nearest orphanages or poor people. They can visit to the place and donate the food. In this way we can reduce food wastage problem. If a user wishes to donate something, he/she can login to the application and they can find the nearest orphanage. At present, we are aiming to avoid the major wastage that usually happens in India and that is foodstuffs. This application will be beneficial if donor and seekers are located near each other. The Donor performs operations like Registration and Login into the System. He can also put up items for donation and view all donation requests (items required by organizations). The Admin and Donor both can view the Receiver's location. The Admin can also monitor and update the database. The Admin and Receiver both can view the Donor's location. The Receiver can also perform operations like requesting for items, viewing requested items and claiming donations.

CHAPTER II

LITERATURE REVIEW

2.1 Literature Review

S.No	Author name & paper title	Concept in the paper	Paper details
1	Federica Cappelletti and Alessandra Papetti, "Smart strategies for household food waste management"	Various methods for managing household waste management.	Elsevier,2022
2	Viachaslau Filimonau and Delysia A.De Coteau, "Food waste management in hospitality operations: A critical review"	First critical, analytical account of the literature on hospitality food waste and its mitigation Highlights challenges in food waste mitigation from the perspective of hospitality managers.	Elsevier,2019
3	Waseem Akram & Iqbal Javed, "Food Wastage And Implications For Food Safety With Special Reference To Marriage Ceremonies"	Study estimates the quantity of food waste and its causes in the marriage ceremonies.	IJAE,2021
4	Shefali Batra, Arun Lal Srivastav, Prashant Chadha, Naman Madaan, "Challenges of waste management in Delhi (India) and its scope of improvement to achieve cities sustainability in developing nations: A review"	Various challenges, category of food wastes management and improvement methods.	Elsevier,2021.

CHAPTER III

SOFTWARE REQUIREMENT SPECIFICATION

3.1 Requirement Analysis

To develop this application, we need a software and hardware requirements,

Frontend: JavaScript, Expo, React Native

Backend: Django Rest

Tool: Visual Studio

3.2 Specification

Hardware requirements

Processor: Standard processor with a speed of 1.6 GHz or

more RAM: 8 GB

Hard disk: 10 GB or more

3.3 Validation

Register and login validation takes place in this application. Only valid user with proper login details are allowed to use this application.

3.4 Architecture Diagram

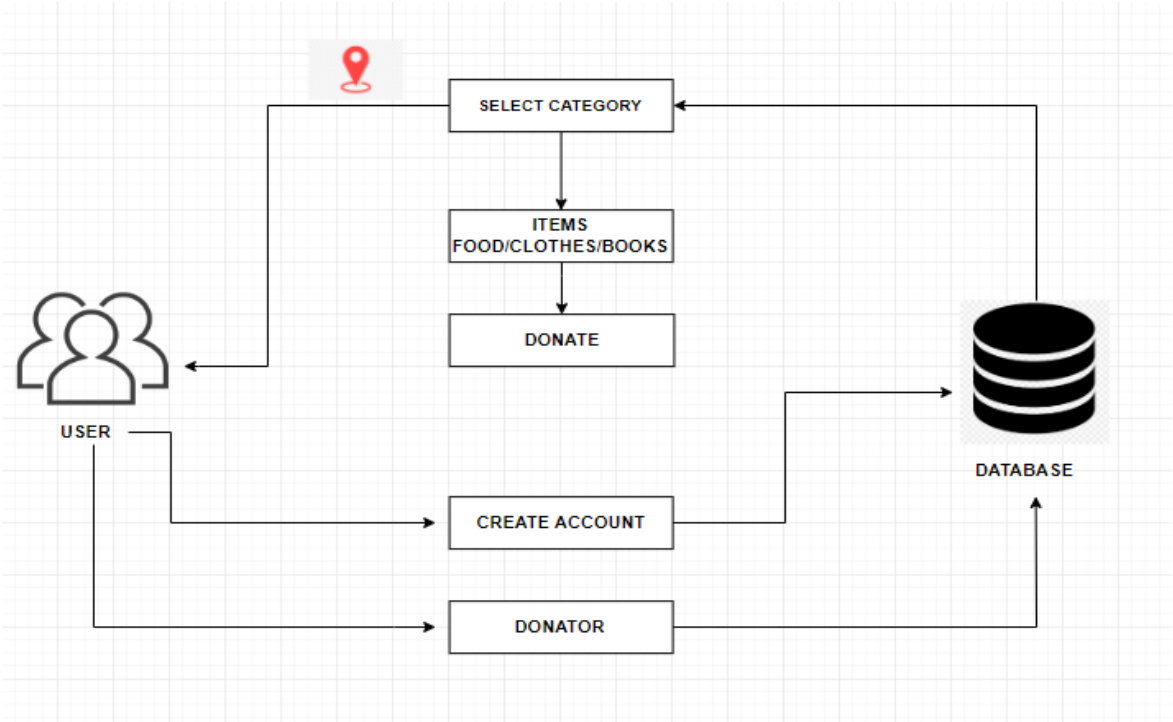


Figure 3.4: Overall System Architecture

3.5 List of Modules

- User Module
  - Registration
  - Login
- Donator Module
  - The donator can select the type of item for donation
  - The Donator will enter the donation details.
- Receiver Module
  - The receiver will accept the request from donator.
  - It can also maintain the donator details.

3.6 Modules Explanation

User Module

- Registration
- Login

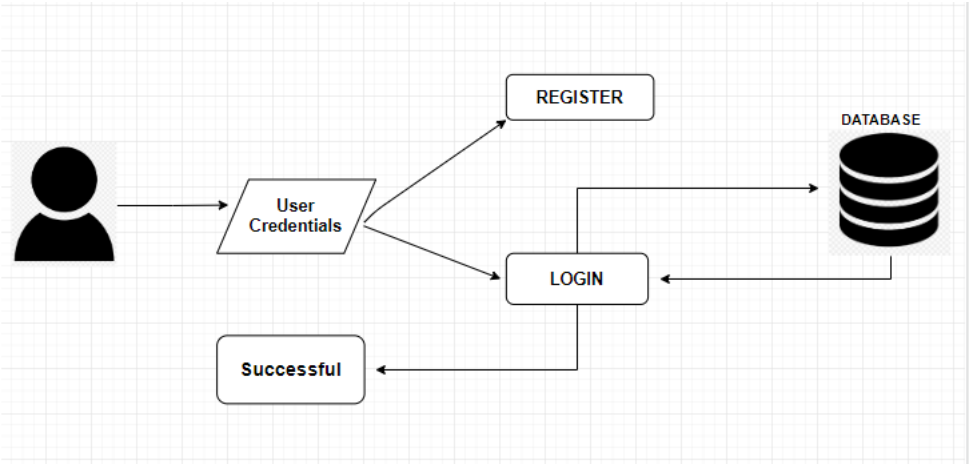


Figure 3.5.1: User Module

In the Registration part of the user module the UI gets the response of the user for the application's account registration. This credential gets stored in the Database. Then in the part of Login where the given user credentials for login is verified from the DB and after successful verification of the user the Home Page gets displayed.

Donator Module

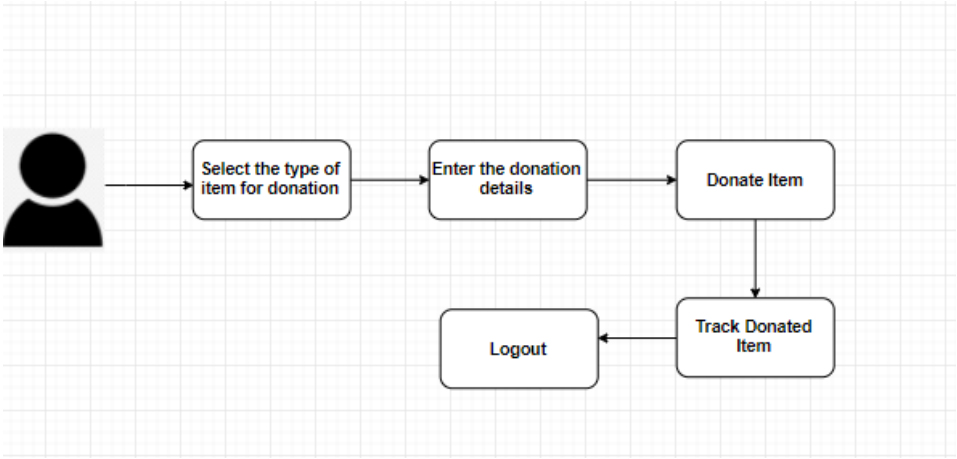


Figure 3.5.2: Donator Module

In donator module, the donator gives the wastage of food to the needy people. The donator will select the type of item from the category for donation. After selecting the item donator will enter the donation details and donate items to the needy people.

Receiver Module

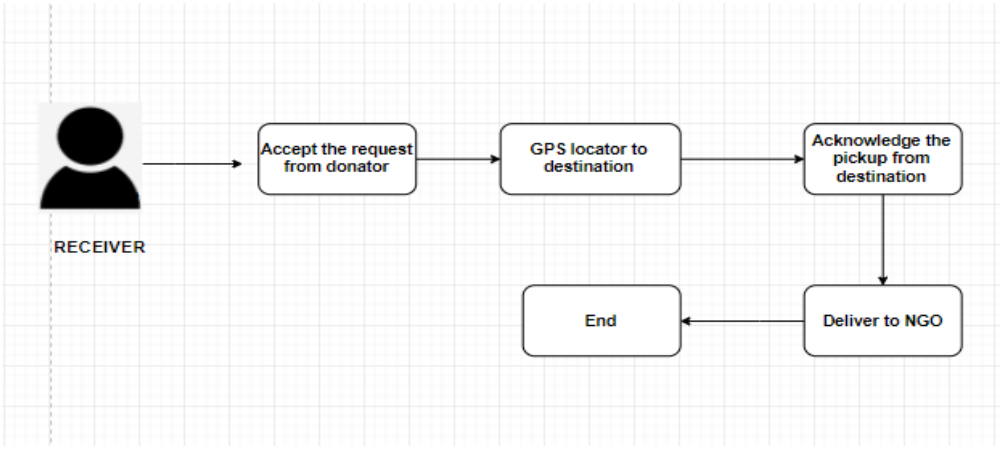


Figure 3.5.3: Receiver Module

In Receiver module, the Receiver accept the request from donator. GPS locator to destination. Acknowledge the pickup from destination. The receiver can visit directly to the donator place and collect the foods and clothes.

CHAPTER IV

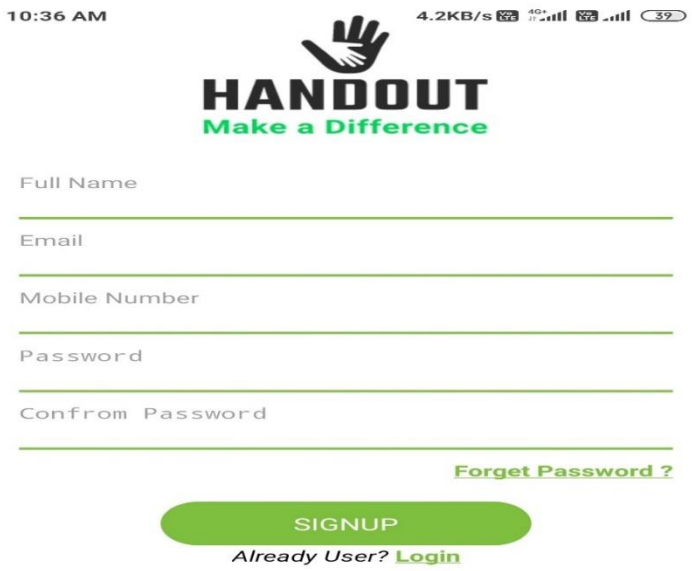
IMPLEMENTATION AND TESTING

4.1 TOOLS USED

TOOLS: Visual Studio code

4.2 MODULEWISE IMPLEMENTATIO AND PSEUDO CODE / SNAPSHOTS

Signup Page



Signup.js

signup.js

src > container > signupscreen > signup.js > ...

```
import React from "react";
import {
View,SafeAreaView,ScrollView,
StyleSheet,
Image,
TextInput,
TouchableOpacity,
AsyncStorage,
Text} from "react-native";
import handout from "../../assests/images/Handout.png";
export default class Signup extends React.Component{
  state={
    fname:'',
    email:'',
    mobilenumber:'',
    password:'',
    cpassword:''
  }
  signUp = async()=>{
    if(this.state.password!==this.state.cpassword){
      alert("Password is miss matching");
    }
    else{
      try{
        let body = {
          method:"POST",
          headers:{
            Accept:"application/json",
            "Content-Type":"application/json"
          },
```

signup.js

src > container > signupscreen > signup.js > ...

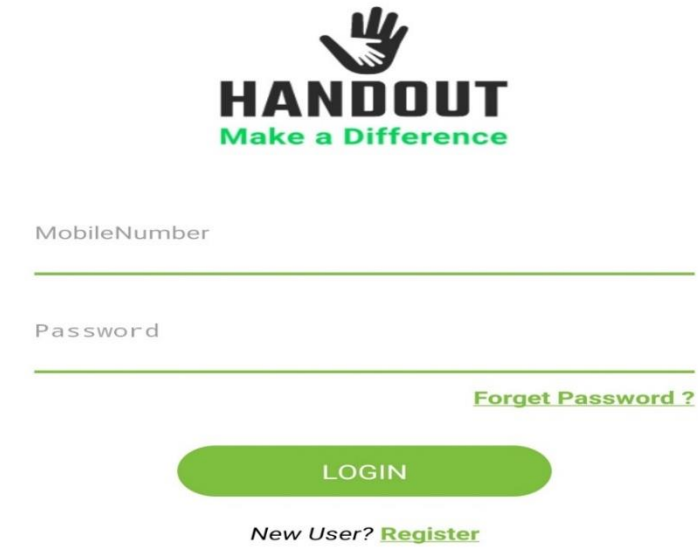
```
          body:JSON.stringify({
            username:this.state.mobilenumber,
            email:this.state.email,
            password:this.state.password,
            first_name:this.state.fname,
          })
        }
        let result = await fetch('http://handout.pythonanywhere.com/api/accounts/Signup/',body)
        res = await result.json()
        this.props.navigation.navigate("Login");
      }catch(error){
        console.log(error);
      }
    }
  }
  render(){
    return(
    <SafeAreaView style={styles.safeAreaview}>
        <View style={{justifyContent:'center',alignItems:'center'}}>
          <Image source={handout} style={styles.logo} />
        </View>
          <ScrollView>
            <View style={styles.viewText}>
              <TextInput
              style={styles.textInput}
              placeholder="Full Name"
              onChangeText={fname => this.setState({ fname })}
              value={this.state.fname} />
              <TextInput
              style={styles.textInput}
```

signup.js

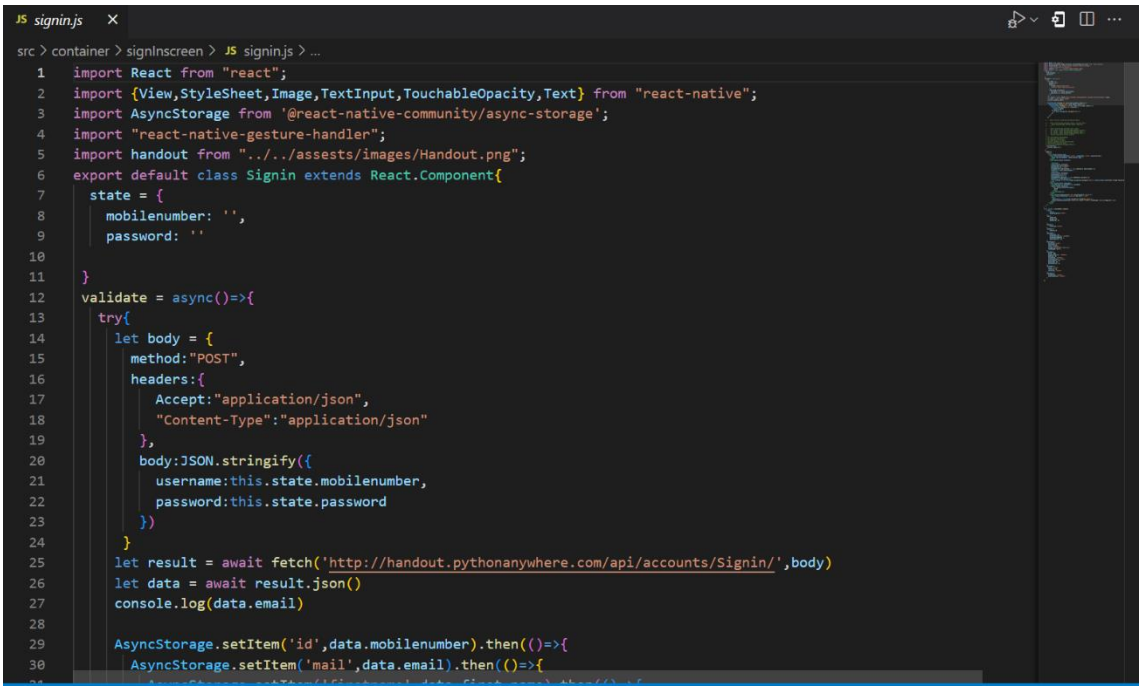
src > container > signupscreen > signup.js > ...

```
onChangeText={fname => this.setState({ fname })}
value={this.state.fname} />
<TextInput
style={styles.textInput}
placeholder="Email"
onChangeText={email => this.setState({ email })}
value={this.state.email} />
<TextInput
style={styles.textInput}
placeholder="Mobile Number"
onChangeText={mobilenumber => this.setState({ mobilenumber })}
value={this.state.mobilenumber}/>
<TextInput
style={styles.textInput}
placeholder="Password"
secureTextEntry={true}
onChangeText={password => this.setState({ password })}
value={this.state.password} />
<TextInput
style={styles.textInput}
placeholder="Confrom Password"
secureTextEntry={true}
onChangeText={cpassword => this.setState({ cpassword })}
value={this.state.cpassword}/>
<Text style={styles.textForget}>Forget Password ?</Text>
</View>
<View style={styles.viewLogin}>
<TouchableOpacity style={styles.touchLog}
onPress={this.signUp}>
    <Text style={styles.textLogin}>
    SIGNUP
```

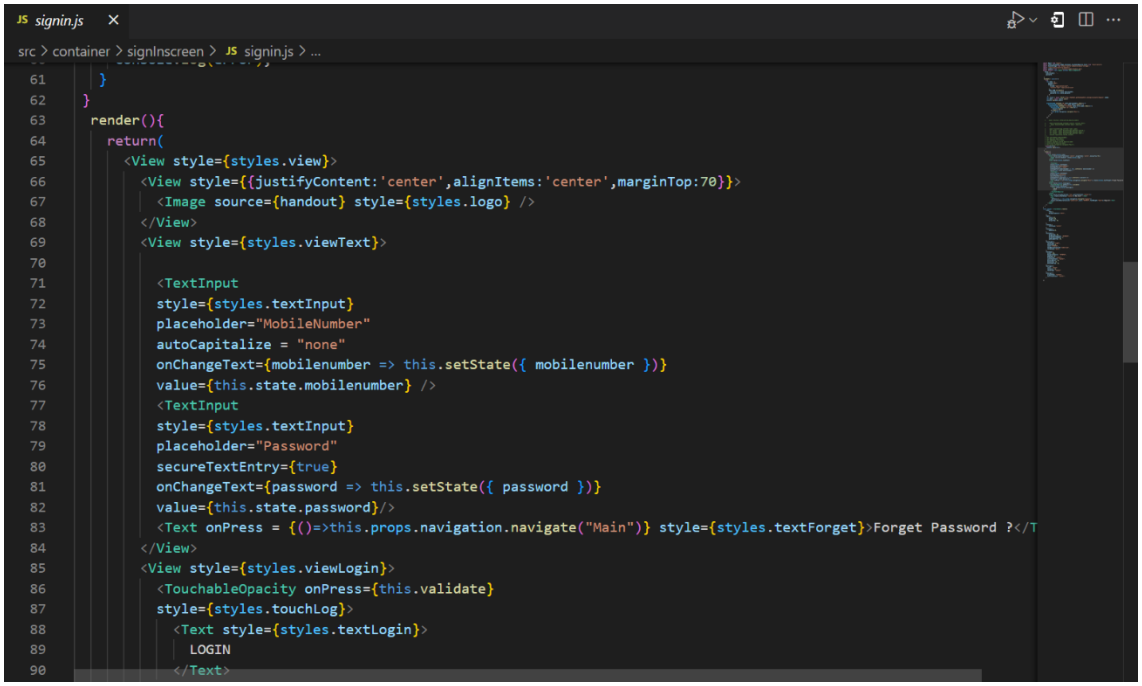
Login Page



Signin.js

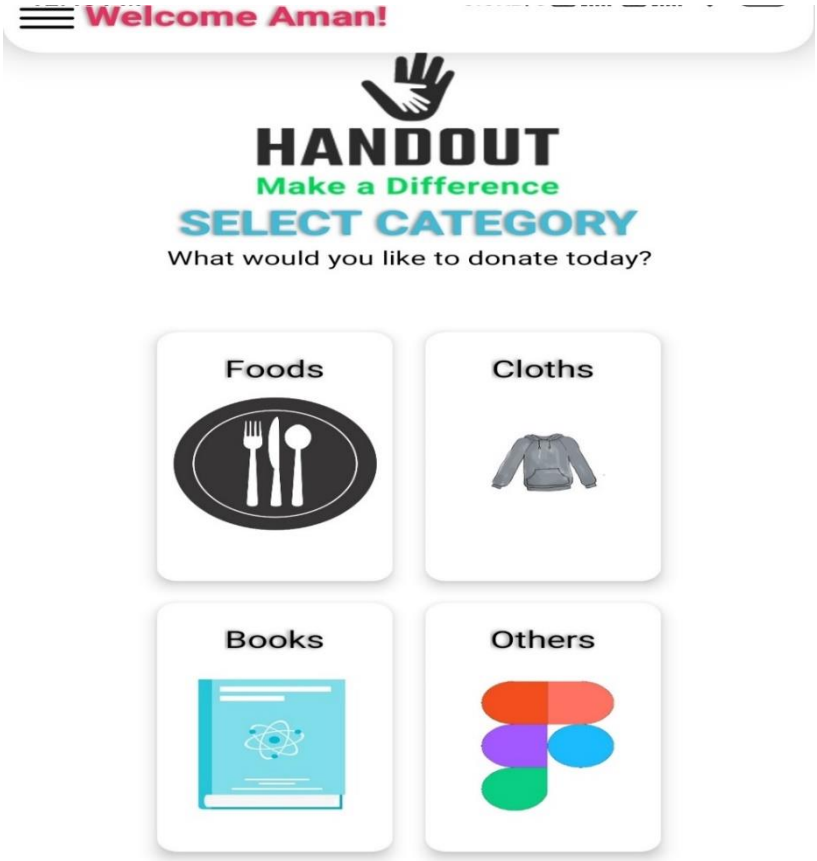


```
src > container > signInscreen > signin.js > ...
1   import React from "react";
2   import {View,StyleSheet,Image,TextInput,TouchableOpacity,Text} from "react-native";
3   import AsyncStorage from '@react-native-community/async-storage';
4   import "react-native-gesture-handler";
5   import handout from "../../assests/images/Handout.png";
6   export default class Signin extends React.Component{
7     state = {
8       mobilenumber: '',
9       password: ''
10
11    }
12    validate = async()=>{
13      try{
14        let body = {
15          method:"POST",
16          headers:{
17              Accept:"application/json",
18              "Content-Type":"application/json"
19            },
20            body:JSON.stringify({
21              username:this.state.mobilenumber,
22              password:this.state.password
23            })
24          }
25        let result = await fetch('http://handout.pythonanywhere.com/api/accounts/Signin/',body)
26        let data = await result.json()
27        console.log(data.email)
28
29        AsyncStorage.setItem('id',data.mobilenumber).then(()=>{
30          AsyncStorage.setItem('mail',data.email).then(()=>{
```



```
src > container > signInscreen > signin.js > ...
61      }
62    }
63    render(){
64      return(
65        <View style={styles.view}>
66          <View style={{justifyContent:'center',alignItems:'center',marginTop:70}}>
67            <Image source={handout} style={styles.logo} />
68          </View>
69          <View style={styles.viewText}>
70
71            <TextInput
72            style={styles.textInput}
73            placeholder="MobileNumber"
74            autoCapitalize = "none"
75            onChangeText={mobilenumber => this.setState({ mobilenumber })}
76            value={this.state.mobilenumber} />
77            <TextInput
78            style={styles.textInput}
79            placeholder="Password"
80            secureTextEntry={true}
81            onChangeText={password => this.setState({ password })}
82            value={this.state.password}/>
83            <Text onPress = {()=>this.props.navigation.navigate("Main")} style={styles.textForget}>Forget Password ?</T
84          </View>
85          <View style={styles.viewLogin}>
86            <TouchableOpacity onPress={this.validate}
87            style={styles.touchLog}>
88              <Text style={styles.textLogin}>
89                LOGIN
90              </Text>
```

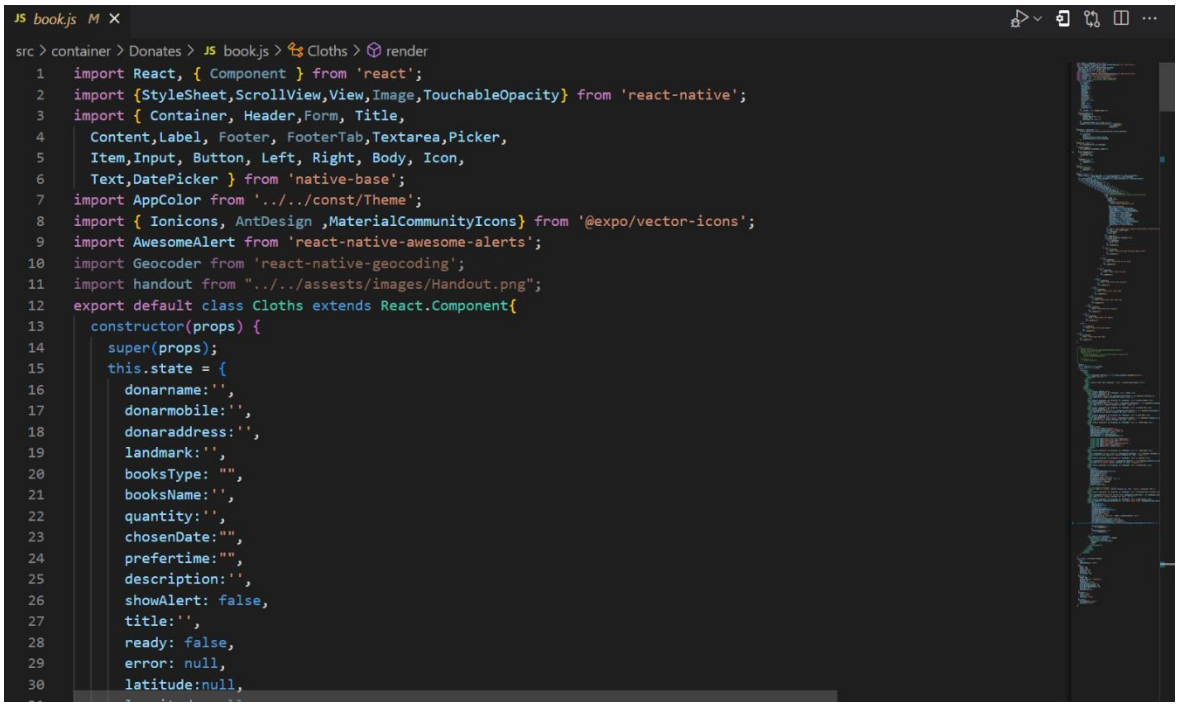
Category Page:



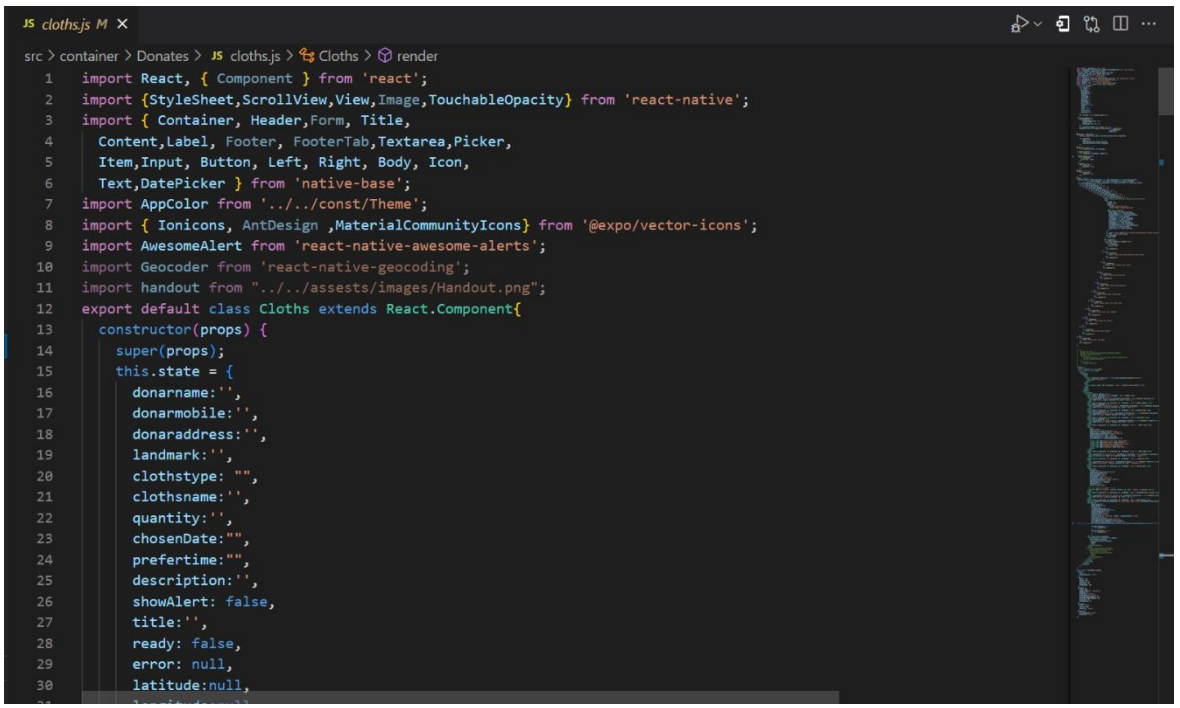
Foods.js

```
src > container > Donates > foods.js > Foods > render
1   import handout from "../../assests/images/Handout.png";
2   import React, { Component } from 'react';
3   import { StyleSheet, ScrollView, View, Image, TouchableOpacity } from 'react-native';
4   import AppColor from '../../const/Theme';
5   import { Ionicons, AntDesign ,MaterialCommunityIcons} from '@expo/vector-icons';
6   import {
7     Container, Header, Form, Title,
8     Content, Label, Footer, FooterTab, Textarea, Picker,
9     Item, Input, Button, Left, Right, Body, Icon,
10    Text, DatePicker
11  } from 'native-base';
12  import AwesomeAlert from 'react-native-awesome-alerts';
13  export default class Foods extends Component {
14    constructor(props) {
15      super(props);
16      this.state = {
17        donarname:'',
18        donarmobile:'',
19        donaraddress:'',
20        landmark:'',
21        foodtype: "",
22        foodname:'',
23        quantity:'',
24        chosenDate:"",
25        prefertime:"",
26        description:'',
27        showAlert: false,
28        title:'',
29        ready: false,
30        error: null,
```

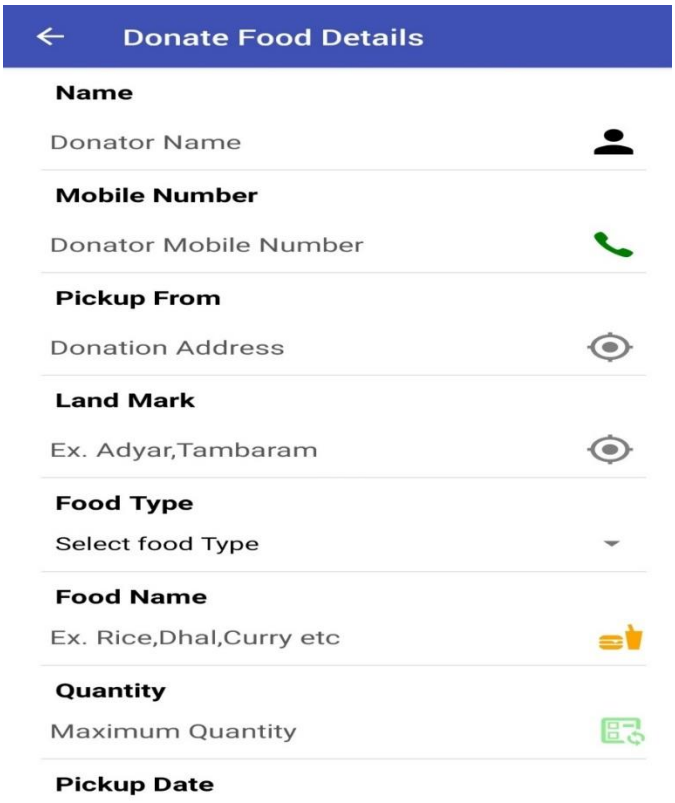
Book.js



Cloths.js



Food Details Page



CHAPTER V

5.1 CONCLUSION

The proposed application shall reduce food wastage and also fulfill other requirements like clothes, books, etc. of needy organizations. As mentioned above in the description there is a lot of food wastage that occurs daily at restaurants and cafes. Instead of throwing away the same as trash (which usually is the scenario), it can be used to feed the homeless. Also, since the pickup is arranged for by the enterprise, the restaurants/cafes need not worry about it. Benefiters will be both the restaurants/cafés (reducing the carbon footprint and wastage), and even if they want to give that extra food to any orphanage or poor people, they don't have time or don't have an idea about that. So that we have create an application so that the user can donate extra food to poor people or nearby orphanage. there is still lot of hurdles to pass for it to become a standard. But for the meantime, this application presents a viable and effective solution.

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