MPL & PWA LAB PREREQUISITE
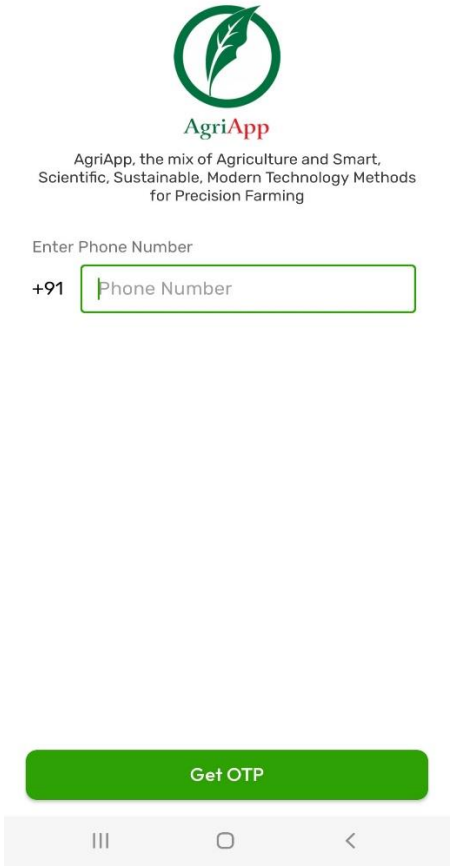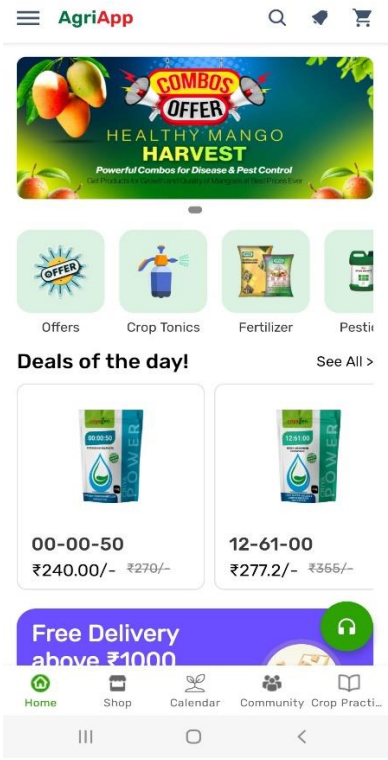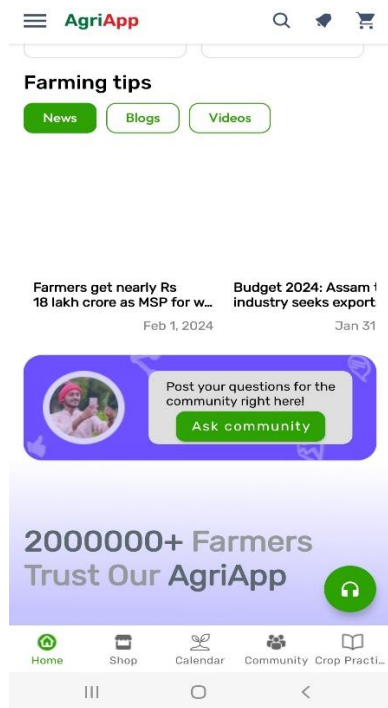
Name: - Tejas Gunjal   **Class: -** D15A   **Roll: No: -** 18

AIM: - Selecting features for application development, the features should comprise of:
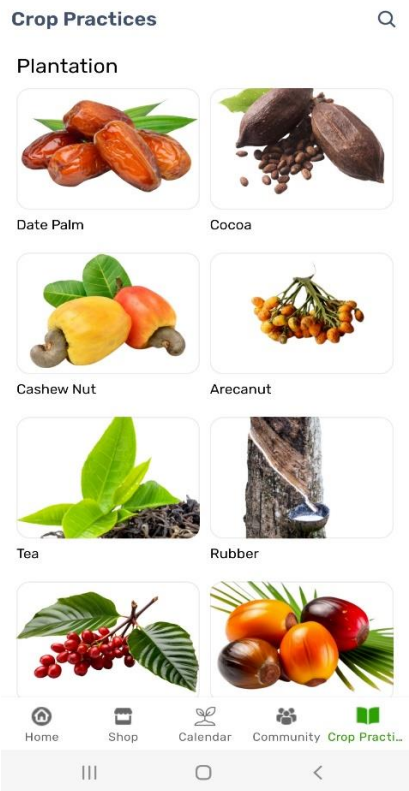
1. Common Widgets
2. Should include icons, images, charts etc.
3. Should have an interactive form.
4. Should apply navigation, routing and gestures
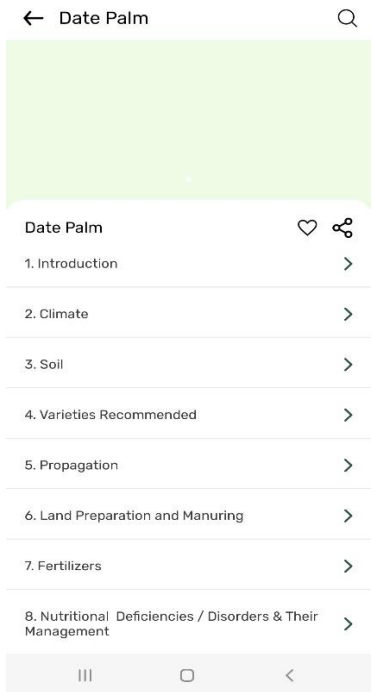5. Should connect with FireBase database

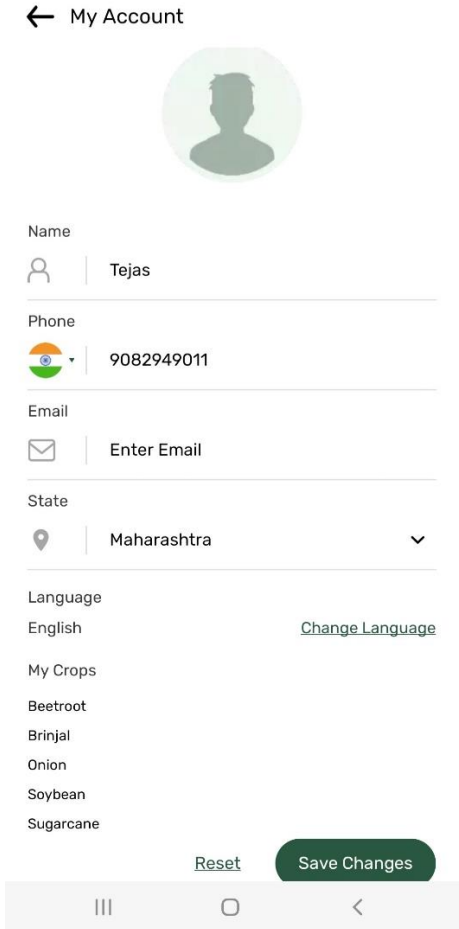| Screen Shot	Features

AgriApp
 	
AgriApp, the mix of Agriculture and Smart, Scientific, Sustainable, Modern Technology Methods for Precision Farming
 	
Enter Phone Number
 	
+91 Phone Number
 	
Get OTP
	• **Purpose**:
	Enables users to register or log in by mobile number to access the app's features.
	
	• **Features**:
	  1. **Form Field**
	
	  2. **Get OTP Button**:
	    A button to receive the otp and authenticate/register the user.
	
	• **Firebase Integration**
	
	Ensures secure login by storing user details in Firebase Authentication.
	
	Can validate user identity based on phone number.

Login Page:

- **Purpose**:
  Enables users to register or log in by providing essential details like name, state, district, and pin code to access the app's features.

- **Features**:
  1. **Form Fields**:
     Name, State, District, Pin Code
  2. **Save Button**:
     A button to submit the form and authenticate/register the user.

- **Firebase Integration**:

  Firestore Database:

  Saves user information such as name, state, district, and pin code in a Firestore collection for real-time access and updates.

Home Page

Banner Carousel:
- **Purpose**: A scrolling banner at the top displaying promotional content, offers, and seasonal deals to engage users.
- **Widgets Used**: Carousel widget with images and animations.

Feature Icons:
- **Purpose**: Interactive icons representing categories like Offers, Crop Tonics, Fertilizers,
- **Widgets Used**: Icon Buttons with labels for clear representation.

Navigation Bar:
- **Purpose**: A bottom navigation bar for quick access to app sections like Home, Shop, Calendar, and Crop Practices.
- **Widgets Used**: Navigation Widget with routing and gesture handling.

Farming Tips Section:
- **Purpose**: Provides categorized content such as News, Blogs, and Videos to keep users informed and engaged.
- **Widgets Used**:
  - Tab Bar for switching between categories (News, Blogs, Videos).
  - List View for displaying content under each category.

Recent News Highlights:
- **Purpose**: Displays a horizontal scrollable list of the latest news articles with titles and dates for quick browsing.
- **Widgets Used**:
  - Horizontal Scroll View or Carousel for a smooth browsing experience.
  - Text Widgets for titles and dates.

Crop Practices Section:
- **Purpose**: Displays a categorized collection of plantation crops, allowing users to explore information on each crop.
- **Widgets Used**:
  - Grid View for organizing the crops in a visually appealing grid format.
  - Image Widgets for displaying crop visuals.
  - Text Widgets for labeling each crop (e.g., "Date Palm," "Cocoa," etc.).

Search Bar:
- **Purpose**: Lets users search crops quickly.
- **Widgets**: TextField with search icon, GestureDetector.

Interactive Crop Cards:
- **Purpose**: Tappable cards to view detailed crop info.
- **Widgets**: Card, InkWell/GestureDetector

Cultivation Guide Section:

Purpose:
Provides users with step-by-step categorized information on cultivation practices, such as climate requirements, soil preparation, and fertilizers, to support effective farming.

Widgets Used:
- **ListView**: To display the categorized content in a clean and scrollable format.
- **IconButton**: For actions like "Favorite" and "Share" to increase user engagement.
- **Navigation Widgets**: To allow users to tap on each category and navigate to a detailed page for further reading.
- **AppBar**: For consistent top navigation and a search icon.

My Account

Name

Tejas

Phone

9082949011

Email

Enter Email

State

Maharashtra

Language

English   Change Language

My Crops

Beetroot

Brinjal

Onion

Soybean

Sugarcane

Reset   Save Changes

User Account Page :

Purpose:
Allows users to view and edit their personal details, manage preferences, and update their account information seamlessly.

Features:
1. **Profile Picture**:
   A placeholder image that can be replaced with the user's chosen profile picture.
2. **Editable Fields**:
   Includes fields for Name, Phone, Email, and State with dropdowns or input boxes for customization.
3. **Action Buttons**:
   o   "Reset": Resets all changes made in the form.
   o   "Save Changes": Confirms and saves updates to user information.

Widgets Used:
Form Widgets, Buttons, ListView, Icons