

# Vivekanand Education Society's Institute Of Technology

## Department Of Information Technology

# SKYVIEW

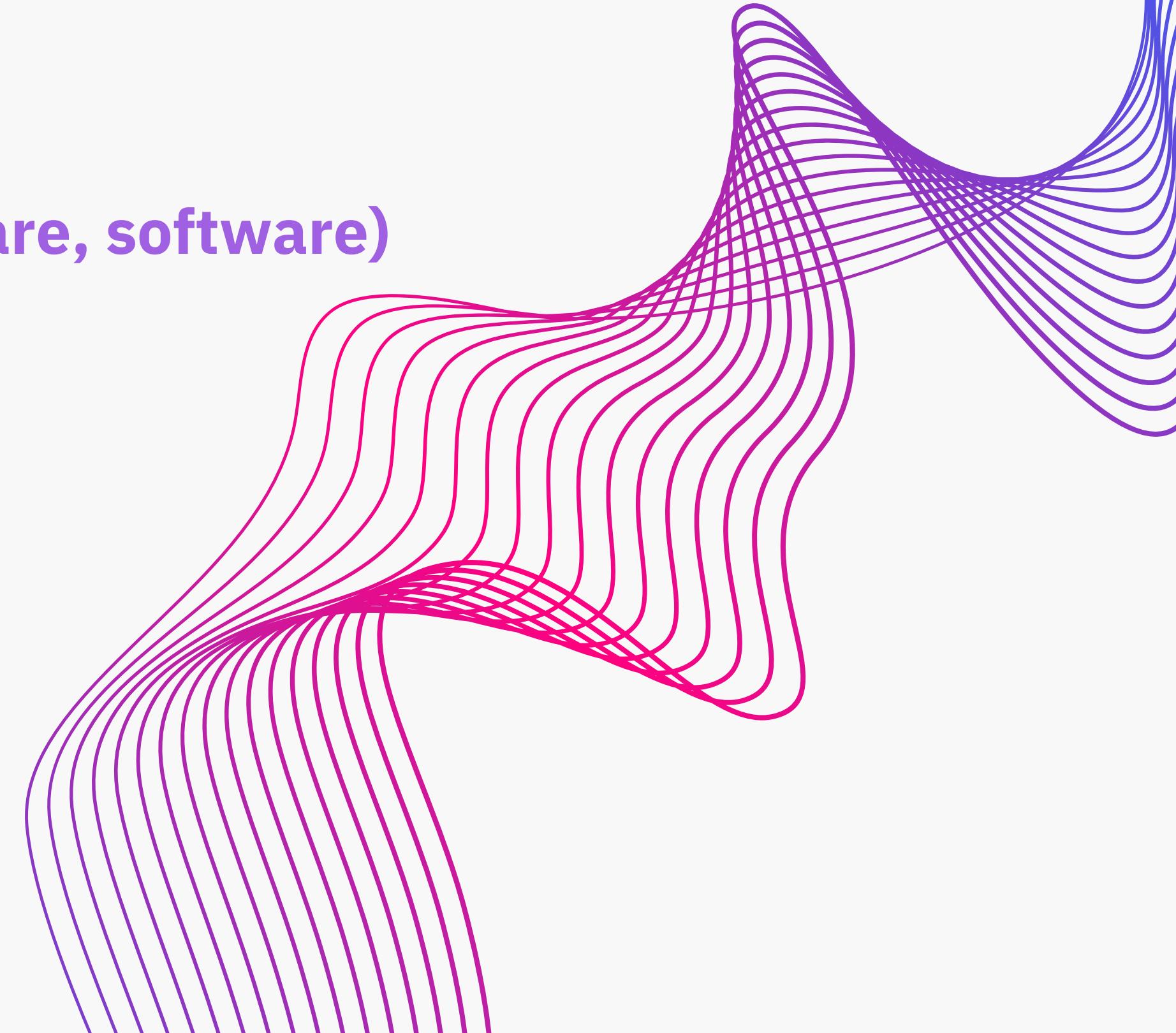
**Presented by**  
**Kaushik Kotian**

**Roll no:30**  
**Div:D15B**  
**Batch:B**

**Guided by-**  
**Dr. Ravita Mishra**

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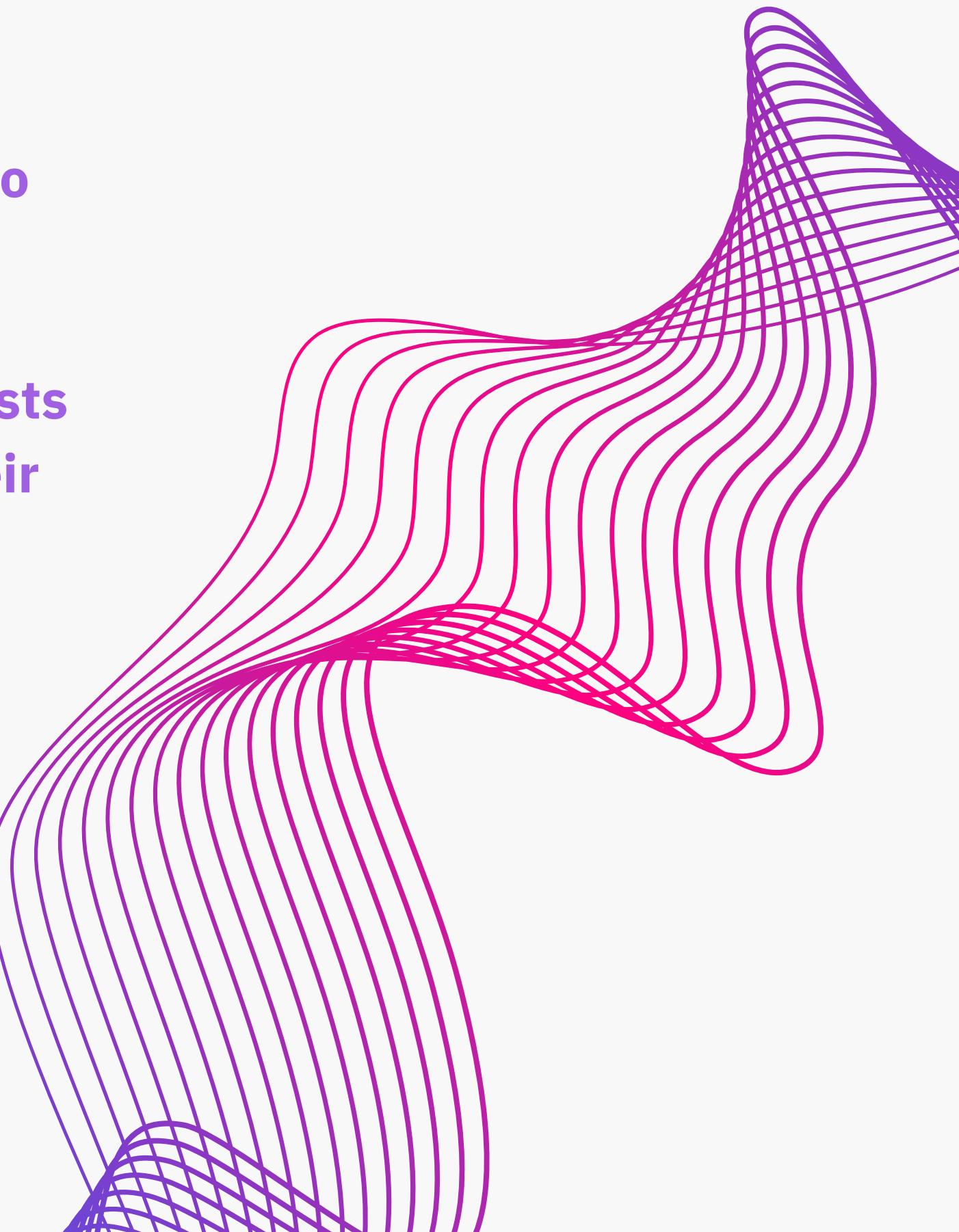
# Introduction

- **SkyView transforms weather forecasting with its real-time accuracy and user-friendly design.**  
**Built with Flutter and powered by OpenWeather API, it ensures you're always prepared, whether planning your day or scheduling travels.**
- **SkyView stands out by offering personalized, precise weather updates for every user, making it essential in today's fast-paced world.**



# Problem Statement

- The complexity and clutter of some weather app interfaces can hinder user engagement and make it difficult for users to quickly find the information they need.
- Users often face issues with the accuracy of weather forecasts and delays in receiving timely updates, which can affect their planning for daily activities and travel.
- A significant number of weather apps are not designed for cross-platform use, limiting user access across different devices and operating systems.



# Objectives of the project

- Provide users with the most up-to-date weather information, ensuring they receive timely updates on weather conditions.
- Design a user-friendly interface that is intuitive and engaging, encouraging regular use and making it easier for users to navigate through the app.
- Include a wide range of weather information such as temperature, humidity, wind speed, and precipitation, catering to the diverse needs of users.



# Requirements of the system (Hardware)

## Development Machine:

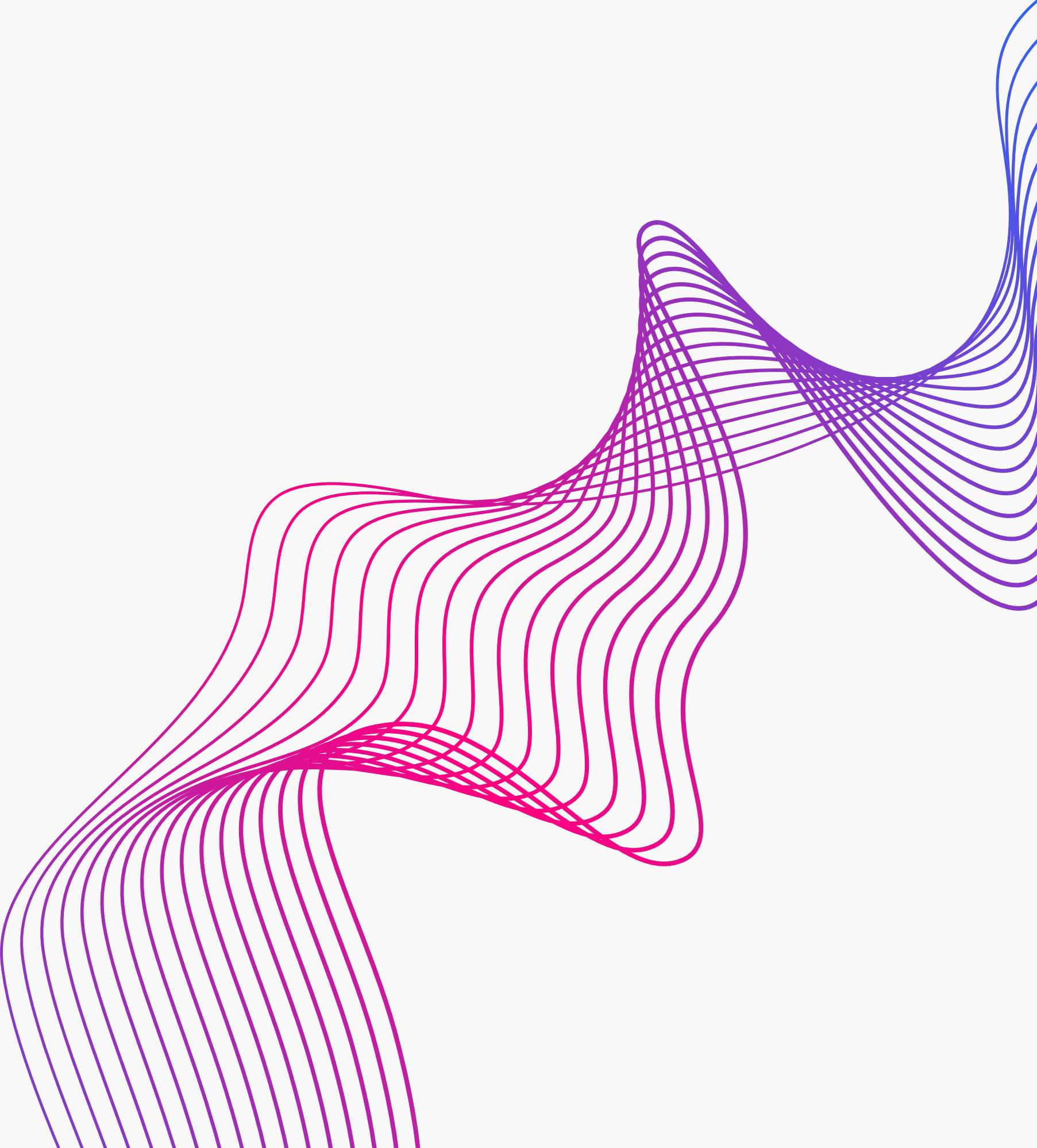
- Processor: Intel Core i5 or better (or equivalent)
- RAM: 8 GB minimum, 16 GB recommended
- Storage: At least 10 GB of free space for the development environment, dependencies, and project files
- Internet Connection:

## User Devices:

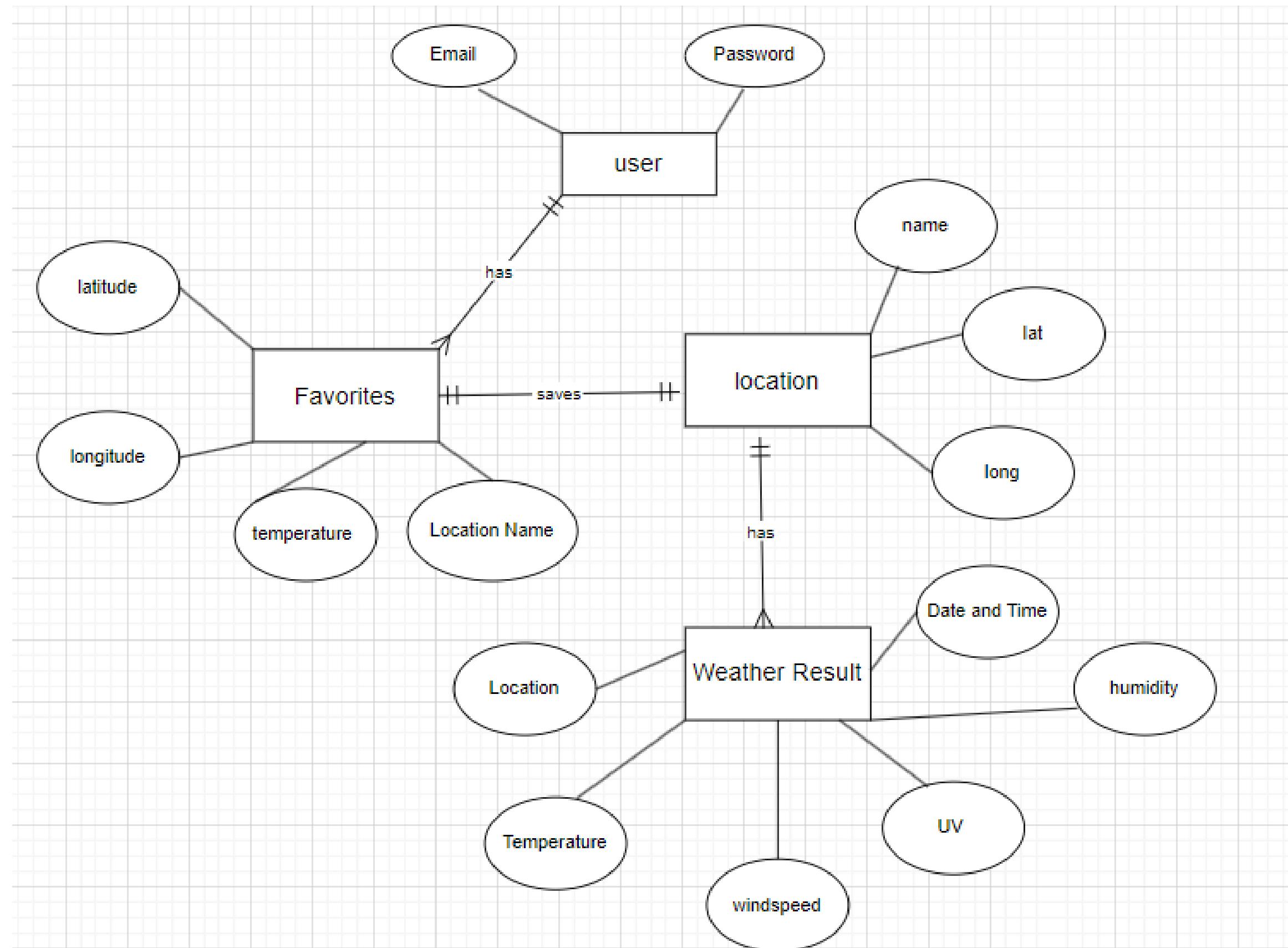
- Mobile Devices: Compatible with modern iOS and Android devices
- Screen Resolution: Supports various resolutions for compatibility across devices
- GPS Module: For devices, to utilize location-based features accurately

# Requirements of the system (Software)

- **Development Environment:**
  - Flutter SDK
  - Dart
  - **Android Studio IDE**
  - **Android emulator**
  - **Git**
- **OpenWeather API**
- **Firebase**

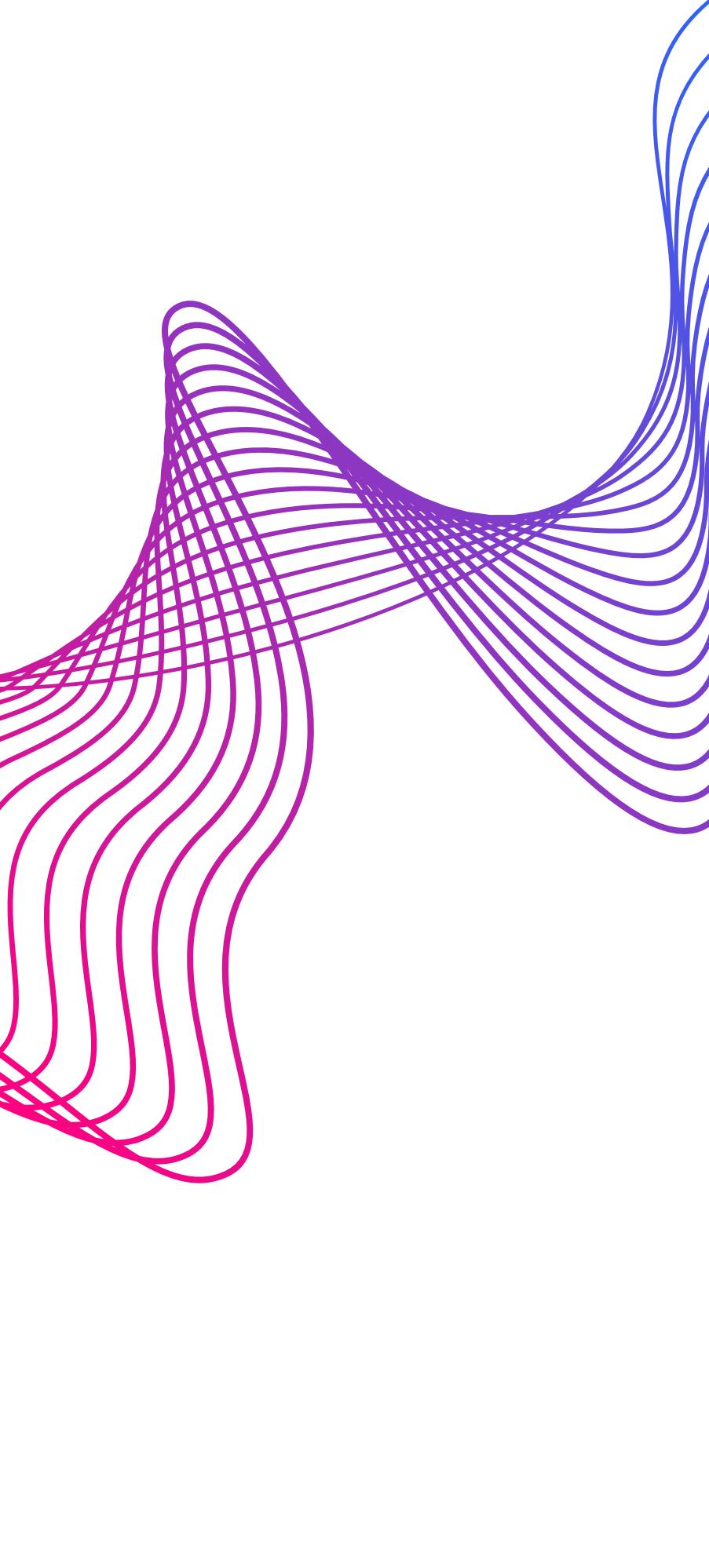
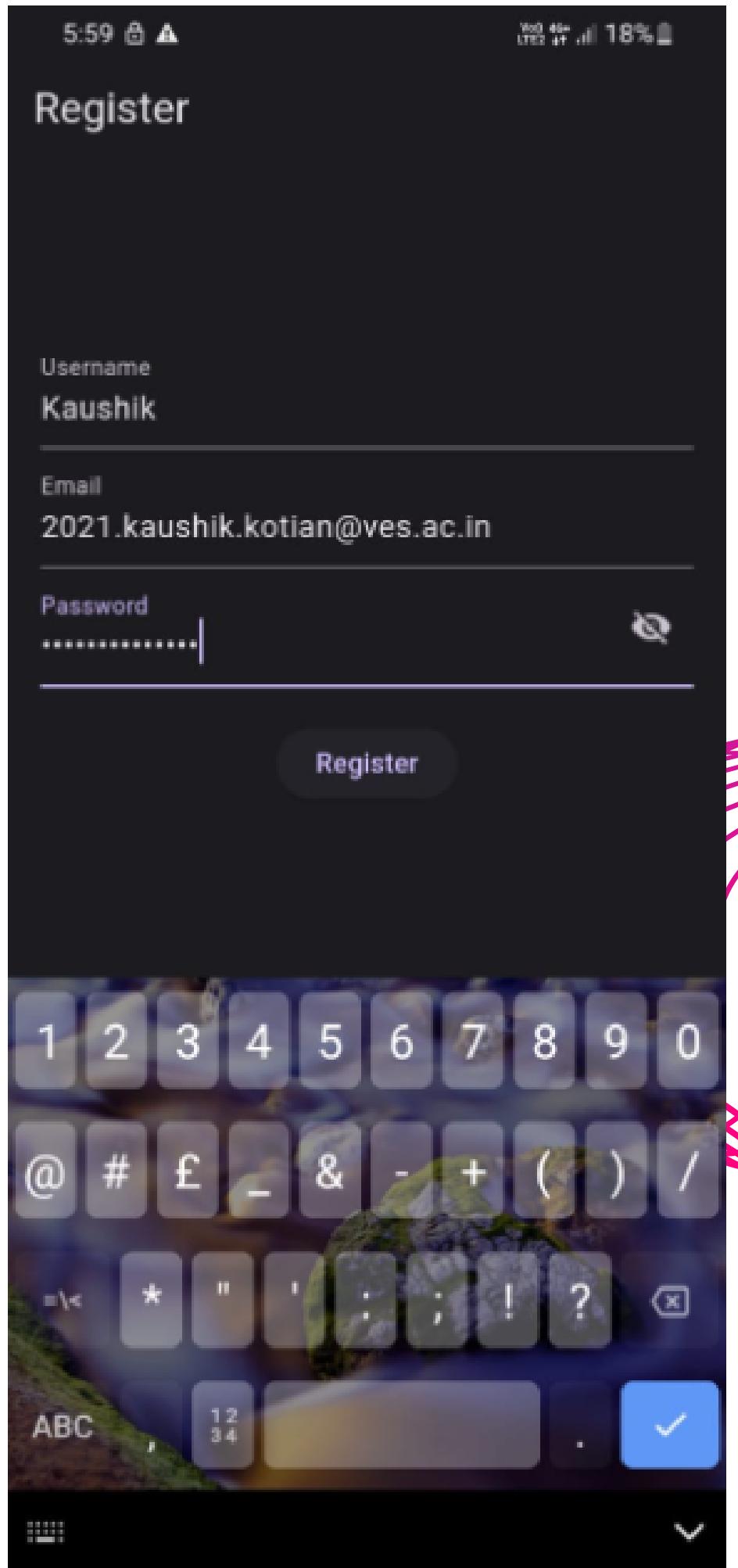


# ER diagram of the proposed system



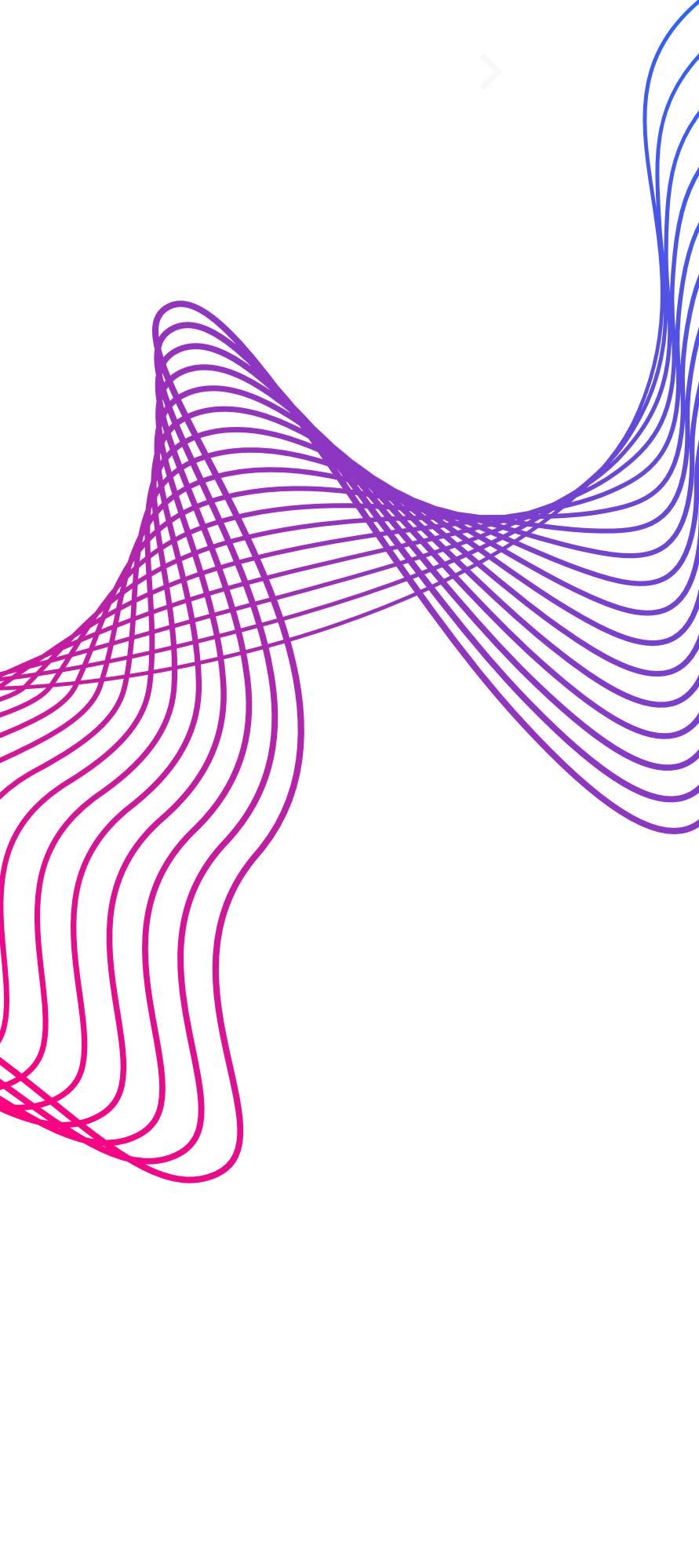
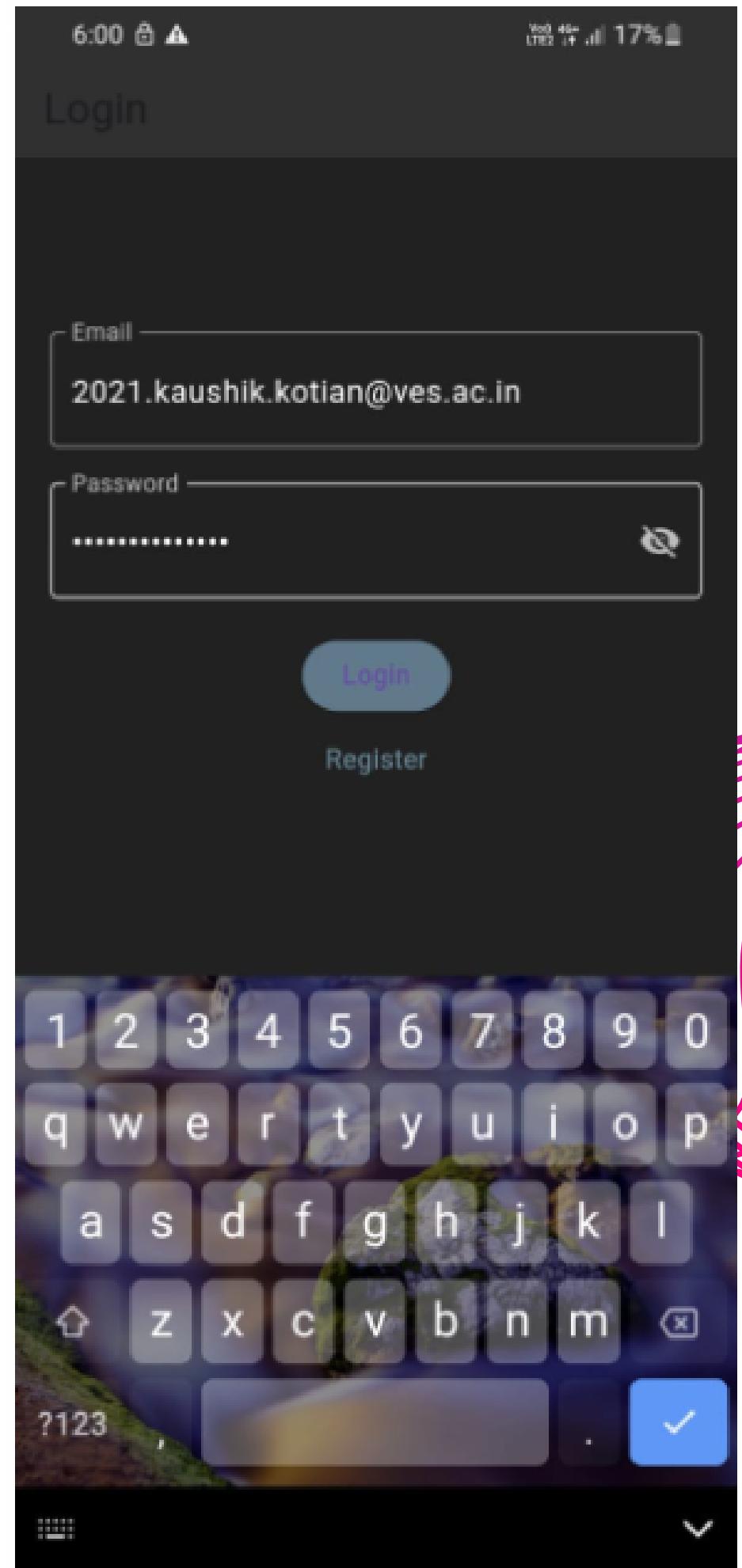
# Registration Page

User have to register with username, Email and password(with show password option)



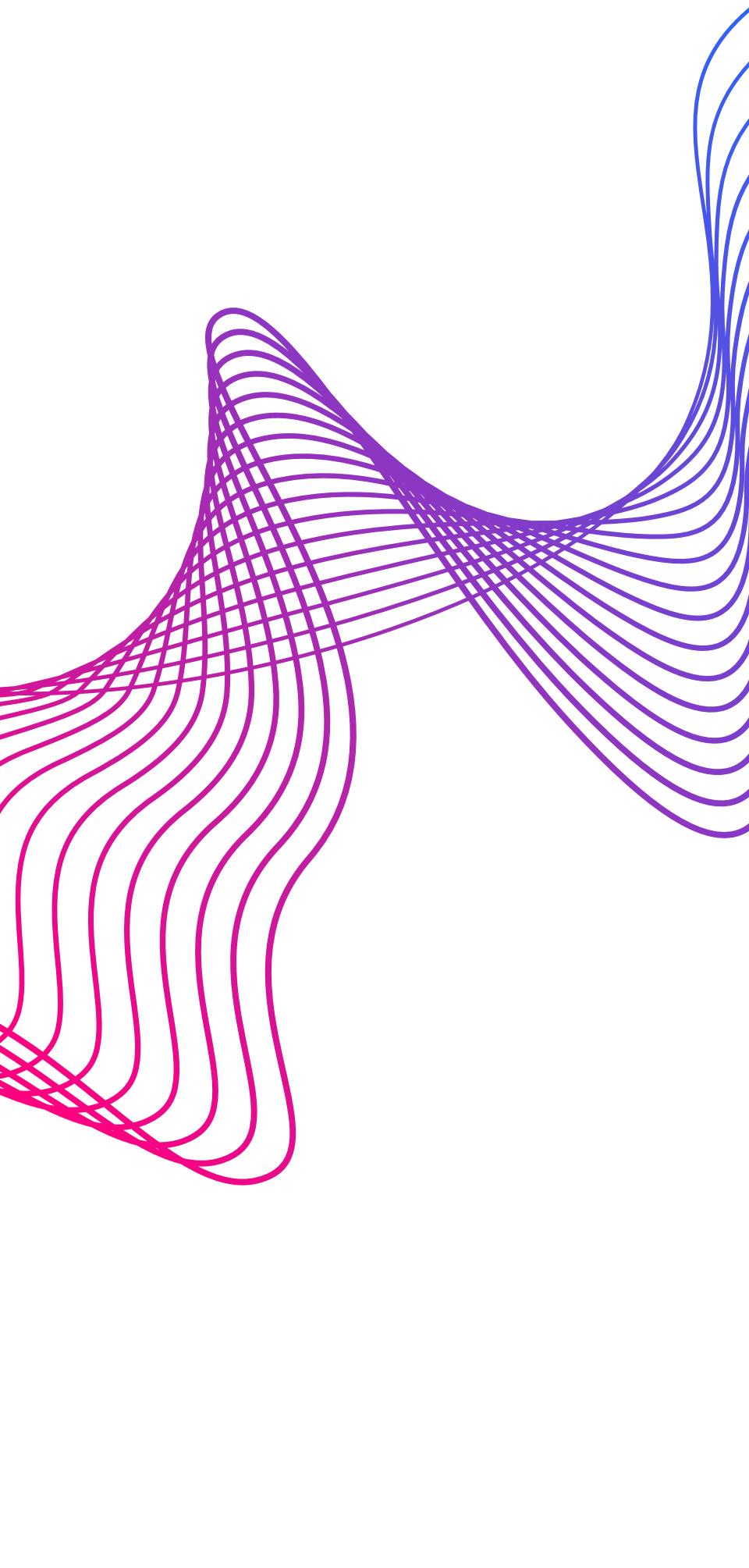
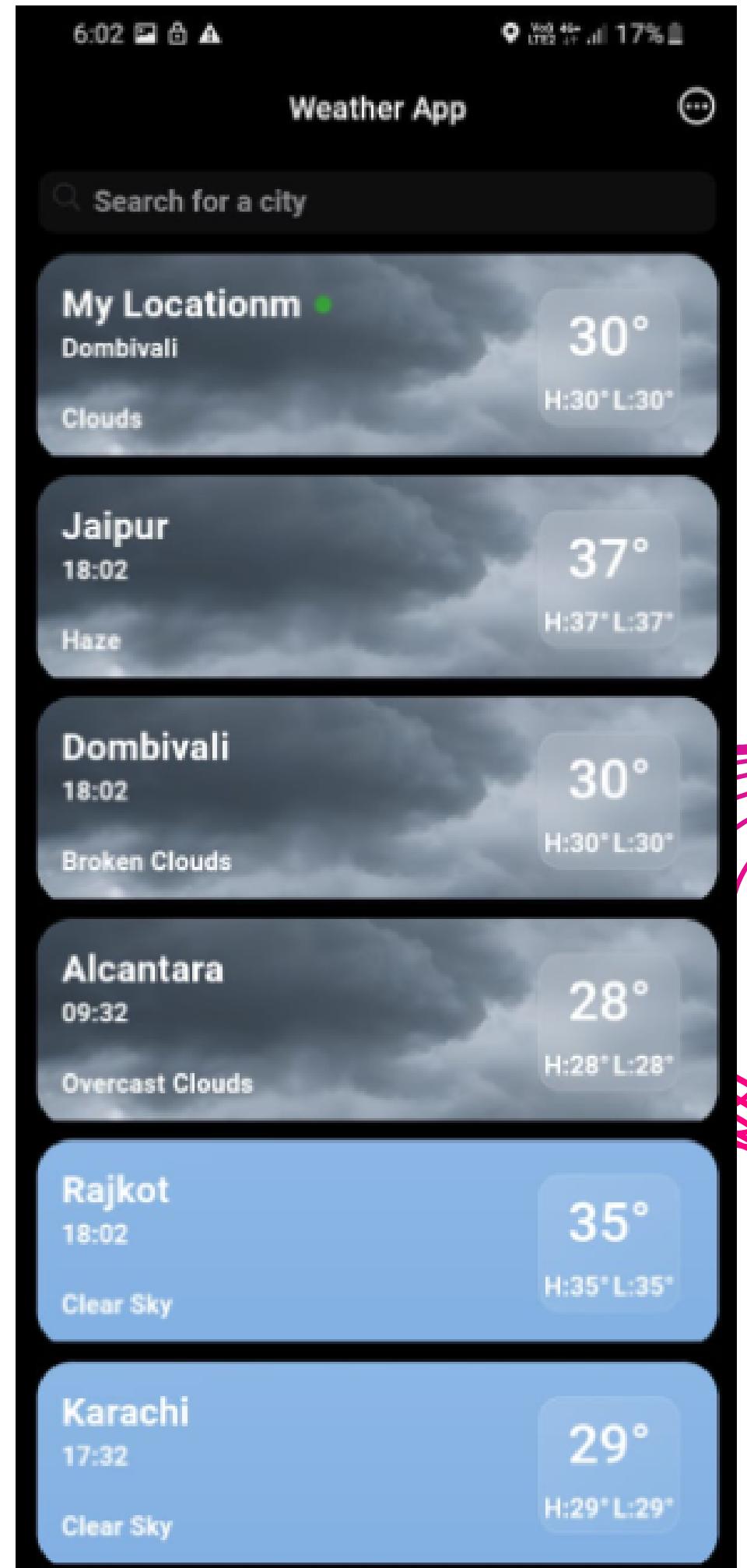
# Login Page

User have to login with  
the registered Email and  
password



# ListPage

Here user can keep track  
of their favourite  
locations with current  
location



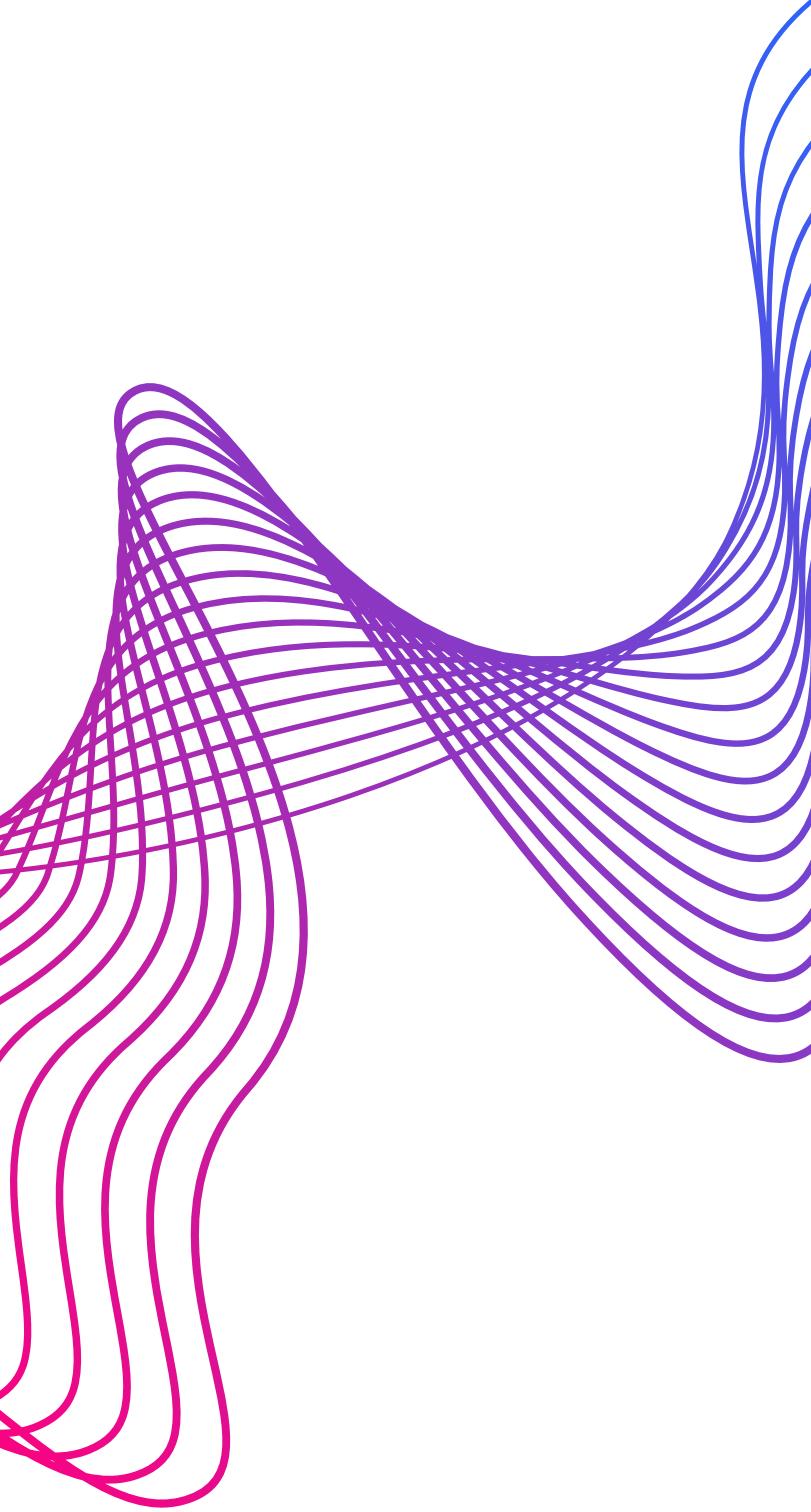
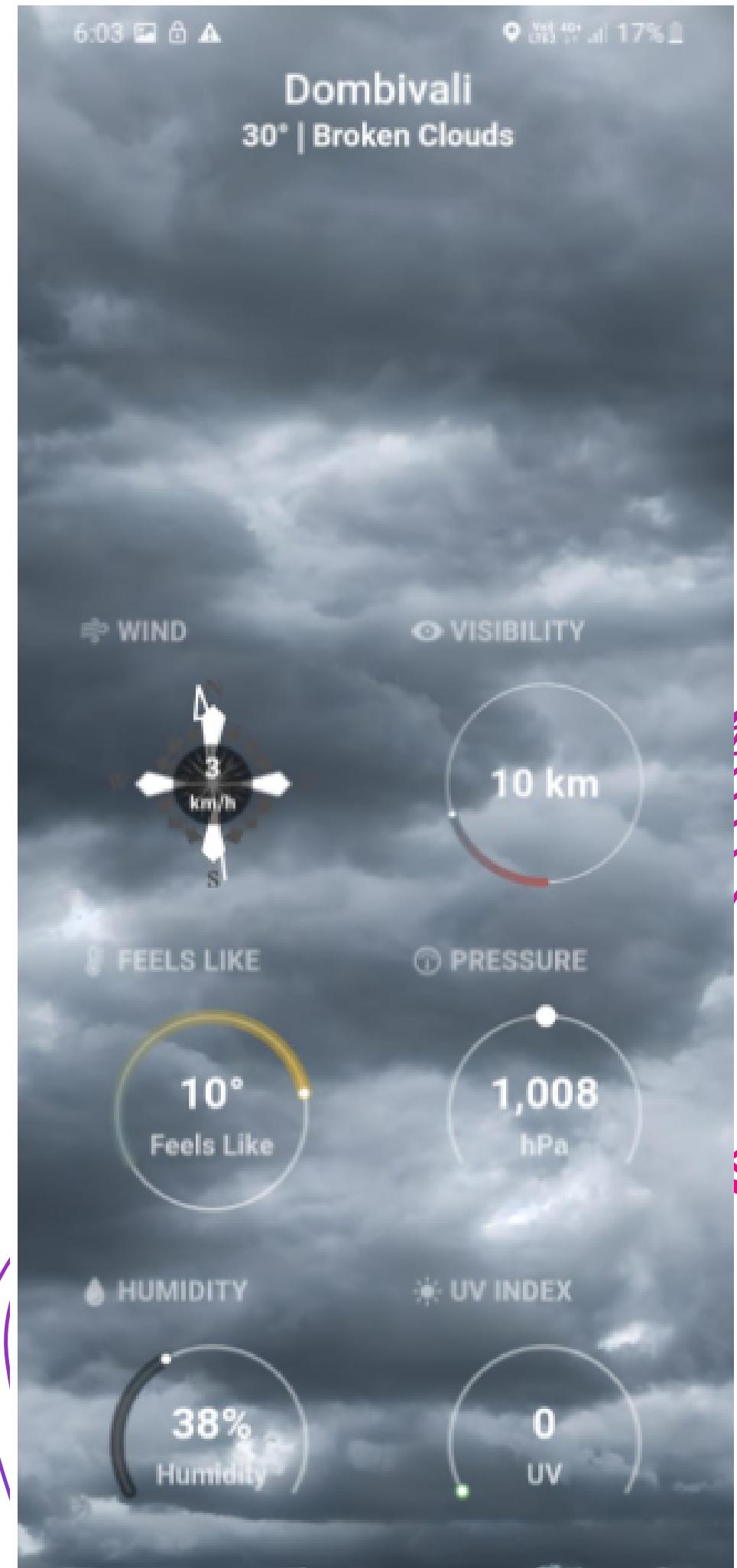
# Search for specific city

User have to type in searchbox  
for the location they desired  
to know the weather



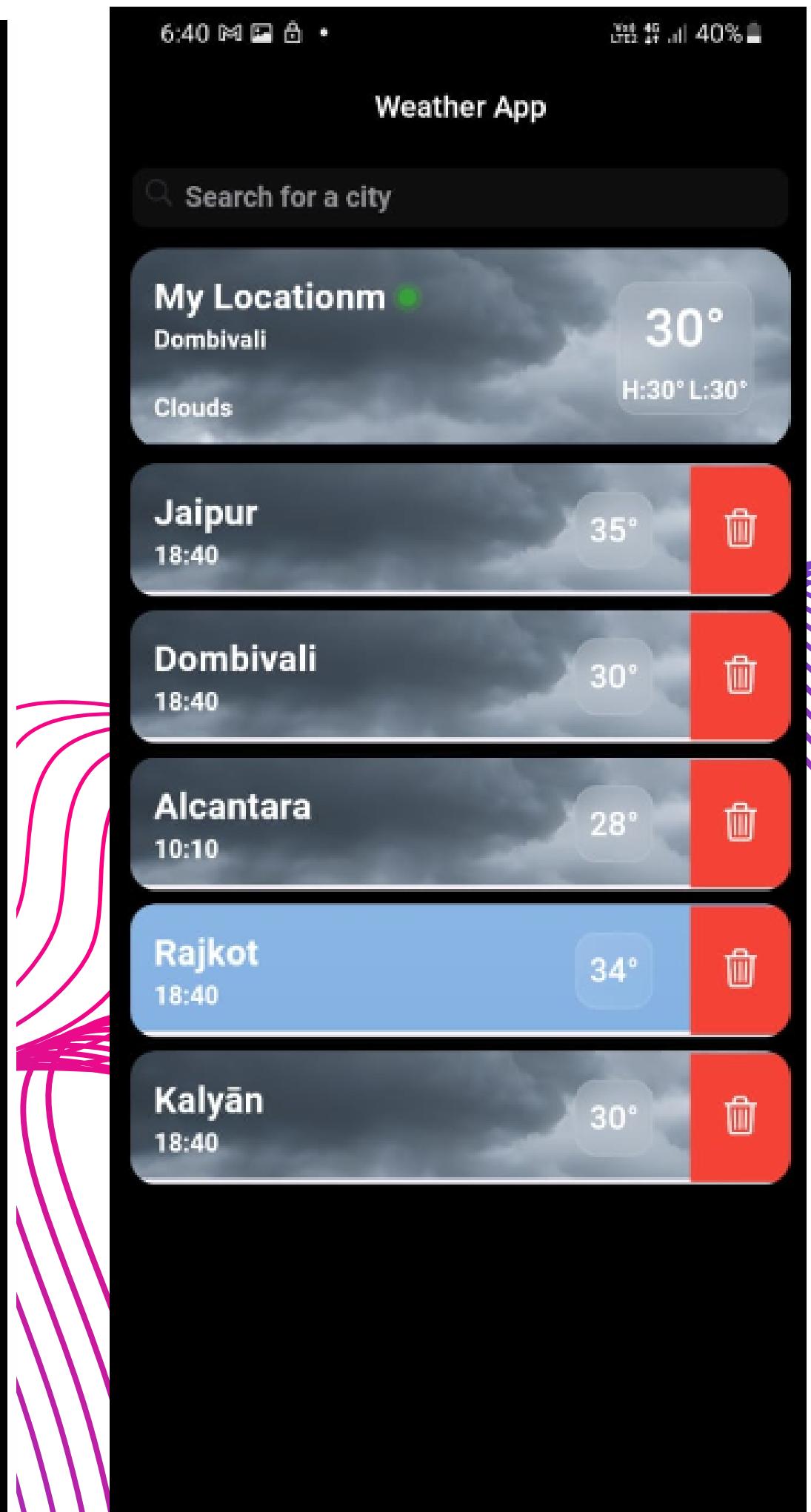
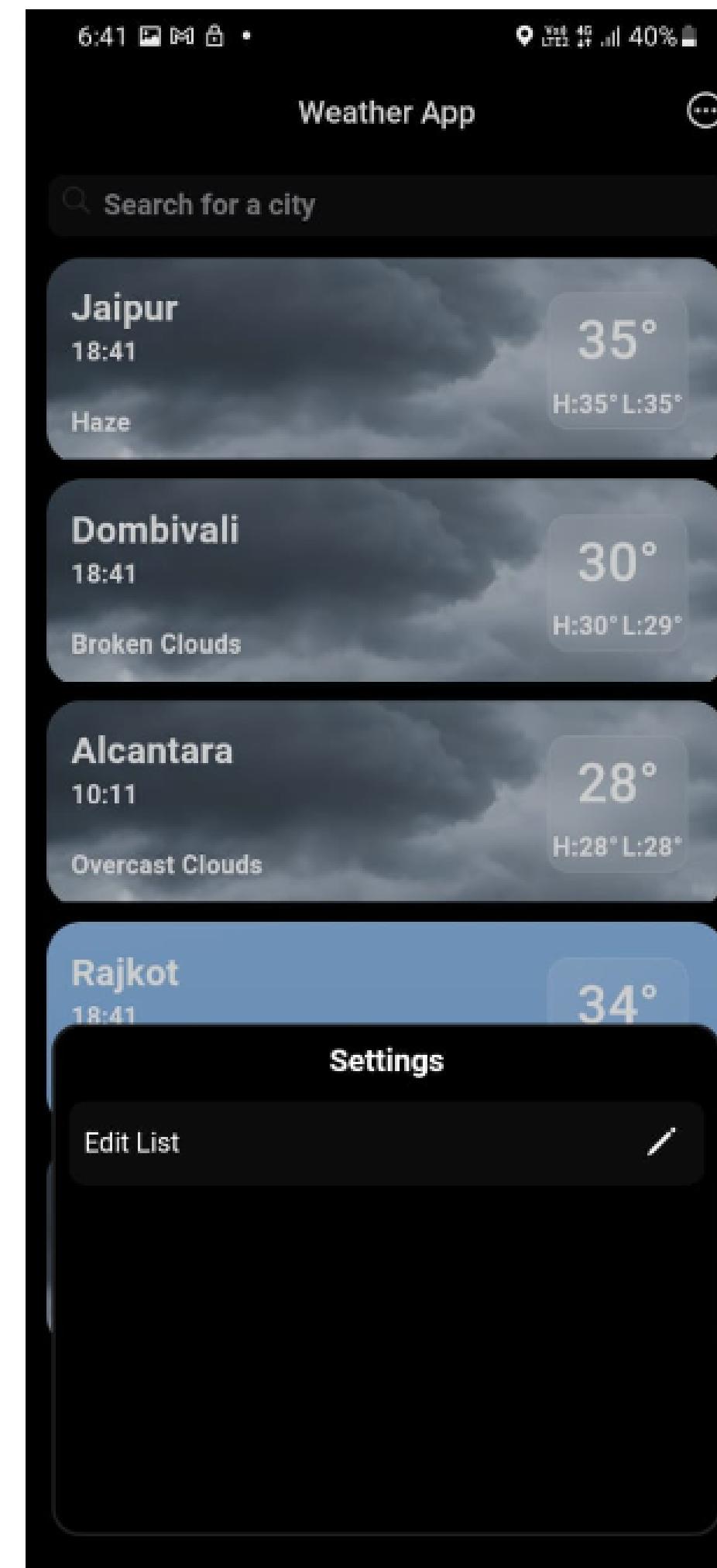
# HomePage

After clicking on the desired city it will give the current data such as Wind, Visibility, Feels Like, Pressure, Humidity and UV Index



# Delete listed city

By clicking on three dots on the top-right corner, user can delete the location item from the list



# Firebase Authentication

The screenshot shows the Firebase Authentication console for the "Weatherapp" project. The left sidebar includes links for Project Overview, Firestore Database, Authentication (which is selected), Extensions, Release Monitor, Product categories, Build, Release & Monitor, Analytics, and Engage. The main content area has tabs for Users, Sign-in method, Templates, Usage, Settings, and Extensions. The "Users" tab is active, displaying a table with two rows of user data. A search bar at the top of the table allows searching by email address, phone number, or user UID. The columns in the table are Identifier, Providers, Created, Signed In, and User UID.

Identifier	Providers	Created	Signed In	User UID
2021.kaushik.kotian@v...	✉️	Mar 5, 2024	Mar 29, 2024	TSQMZOxmqScFLJ6RNpF5ah...
kaushikkotian003@gm...	✉️	Mar 5, 2024	Mar 12, 2024	WpF9WBkzfQcK5MVjzwfSJDj...

Rows per page: 50 | 1 – 2 of 2 | < >

# LITERATURE SURVEY

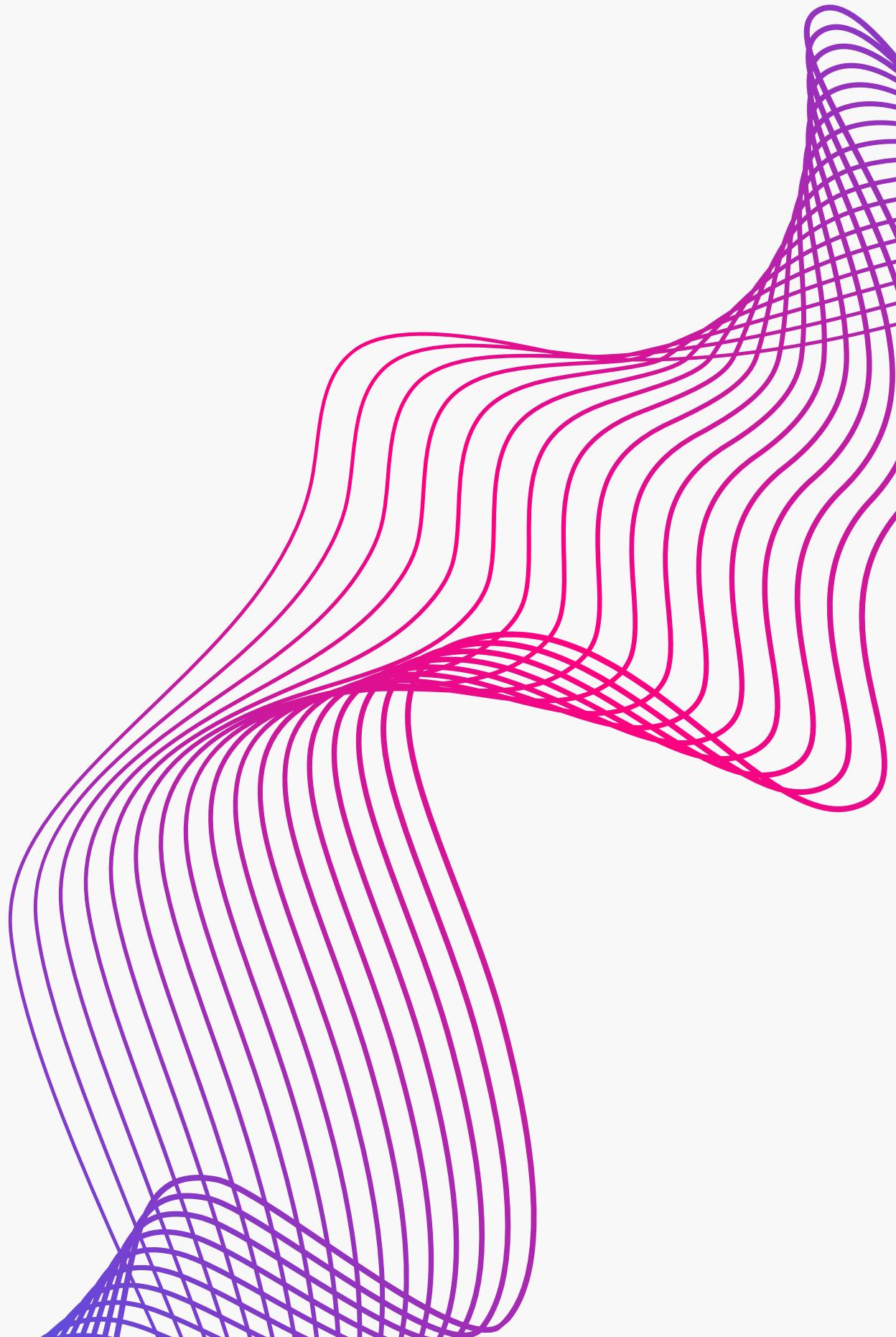
Sr No.	Title	Author	Publish Date	Description
1	<b>Weather Forecasting Techniques</b>	<b>Garima Jain<sup>1</sup>, Bhawna Mallick<sup>2</sup></b>	<b>10, Oct 2018</b>	This paper presented an overview of weather forecasting techniques with time series data describing the main contributions in this field. Papers were reviewed to emphasize the diversity of forecasting methods and the time-scales of forecasting methods. It is difficult to evaluate the performance of various methods, as the existing applications were in different time-scale and different way.
2	<b>Designing Data-Driven Weather Apps with OpenWeather API</b>	<b>Laura Chen</b>	<b>July 22, 2020</b>	In this article, Chen discusses the strategic advantage of integrating weather APIs into mobile apps beyond traditional weather applications.

# LITERATURE SURVEY

Sr No.	Title	Author	Publish Date	Description
3	<b>Smart weather monitoring and real time alert system</b>	<b>Yashaswi Rahut , Rimsha Afreen, Divya Kamini,</b>	<b>10, Oct 2018</b>	<p>The system deals with monitoring weather and climate changes like temperature, humidity, windspeed, moisture, light intensity, UV radiation and even carbon monoxide levels in the air; using multiple sensors.</p>
4	<b>Environment Monitoring System</b>	<b>Gaurav Jadhav, Kunal Jadhav, Kavita Nadlamani</b>	<b>4, Apr 2016</b>	<p>The development in embedded system has proved to be a reliable solution in monitoring and controlling the environment monitoring system</p>

# Conclusion

- **The development of the SkyView Weather App represents a significant achievement in leveraging cutting-edge technology to address everyday challenges.**
- **By utilizing the Flutter framework and integrating the OpenWeather API, this project has not only demonstrated the feasibility of creating a high-performance, cross-platform weather application but also underscored the potential for technology to enhance personal and community preparedness in the face of variable weather conditions.**





# REFERENCES

- **Janani.B,Priyanka Sebastian. (2014 ). Analysis on the weather forecasting and technique. (3rd ed ). IJARCET.**
- **Samenow & Fritz. (2015 ). Issues with weather prediction.**
- **Jabani B and Priyanka Sebastian. (2014 ). Analysis on The Weather Forecasting and Techniques.**

# Thank You

# Vivekanand Education Society's Institute Of Technology

## Department Of Information Technology

# PWA

**Presented by**  
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# FEATURES

## 1. Add to Home Screen:

This feature allows users to save a PWA to their device's home screen with an icon, similar to native apps. Once added, the PWA can be launched directly from the home screen, providing a full-screen experience without the browser UI, thereby enhancing user engagement and ease of access.

## 2. Service Worker Events: Fetch, Sync, Push:

- Fetch: Intercept network requests to cache or retrieve assets, enabling offline use or faster load times.
- Sync: Delay actions until a stable internet connection is available, useful for posts or updates made offline.
- Push: Receive push notifications from a server, even when the browser is closed, keeping users engaged with timely content or alerts.

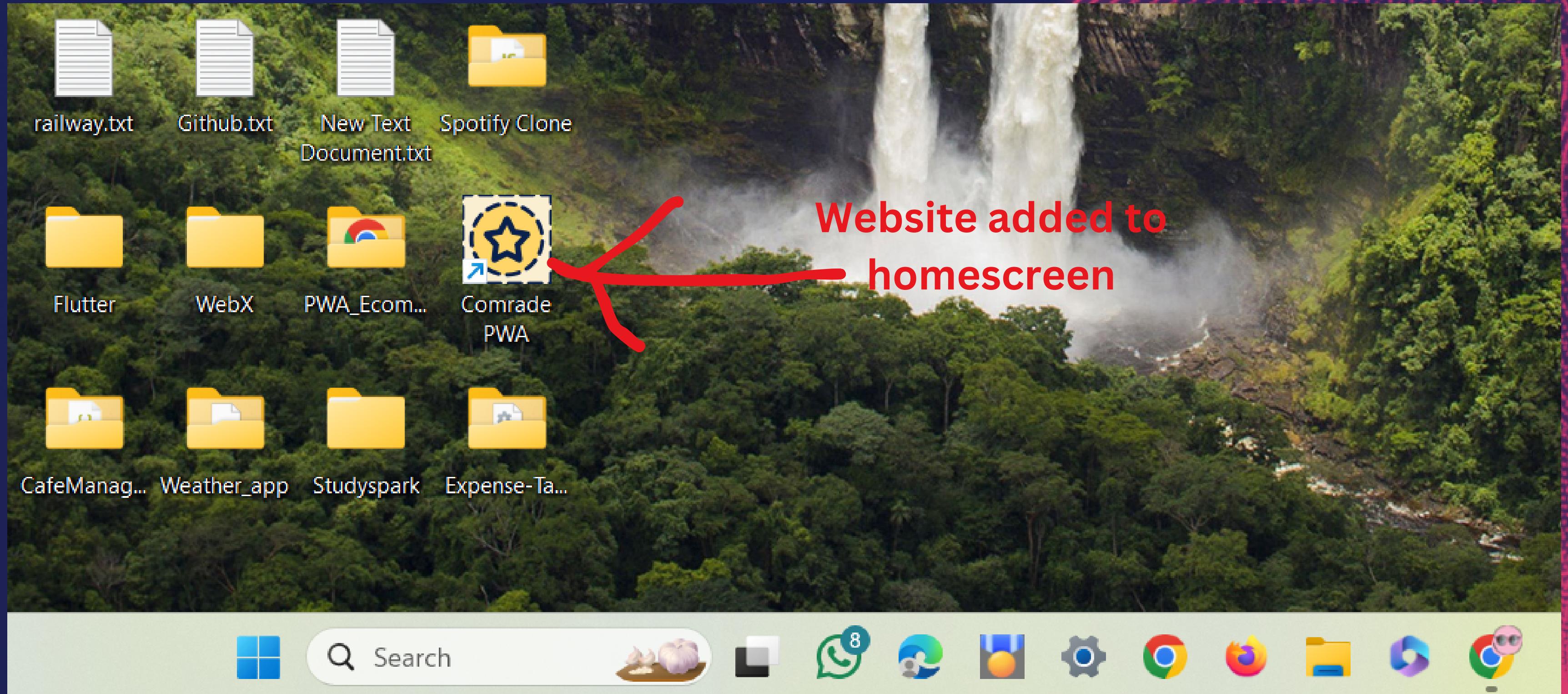
## 3. Upload Product:

This feature allows the user to upload their product which they want to sell on the site .

## 4. Whatsapp/call seller :

Connects with the dealer through whatsapp or phone number to purchase the product.

# Homescreen Icon



# Homepage

← → C  kaushik-pwa-ecom.netlify.app

Comrademarket.com Categories Home Contact Upload product 

OUR CATEGORIES

Finding Best Products Now  
in Your Fingertips

Mobile Phones 

Tech Accessories 

Cheap Furniture 

Dope sneakers 

Affordable Laptops 

Find the Drip 

Smart Electronics 

General 

 Android Available on Google play

# PWA FEATURES



service worker events like fetch, sync and push

The screenshot shows the Chrome DevTools Service Worker panel with the following sections:

- Storage:** Local storage, Session storage, IndexedDB, Web SQL, Cookies, Private state, Interest group, Shared storage, Cache storage (offline - http, dynamic-pw).
- Clients:** http://127.0.0.1:5500/ focus.
- Push:** A message object is being sent: {"method": "pushMessage", "message": "He"}. A "Push" button is available.
- Sync:** A sync tag "test-tag-from-devtools" is present, with a "Sync" button.
- Periodic Sync:** A sync tag "test-tag-from-devtools" is present, with a "Periodic Sync" button.
- Update Cycle:** Shows three steps: Install, Wait, and Activate. The Activate step is highlighted with a yellow bar.
- Background services:** A list of registered services.
- Service workers from other origins:** An empty list.
- Console:** Displays log messages:
  - Fetch successful (from network, cached): <http://127.0.0.1:5500/styles.css> sw.js:93
  - Fetch successful (from cache): <http://127.0.0.1:5500/styles.css> sw.js:65
  - Fetch successful (from network, cached): <http://127.0.0.1:5500/script.js> sw.js:93
  - Fetch successful (from cache): <http://127.0.0.1:5500/script.js> sw.js:65
- Issues:** An empty list.
- Default levels:** Set to 4.
- Bottom Tab:** Console (highlighted), Issues, +.
  

The screenshot shows the Chrome DevTools Network panel with the following message in the console:

Service worker registration successful: <http://127.0.0.1:5500/>

Below the message, there are several log entries related to the service worker registration and its activation:

  - helloSync success [script.js]
  - helloSync [sw.js]
  - >

The Network panel also displays a list of registered service workers:

  - Manifest
  - Service worker
  - Storage
  - Local storage
  - Session storage
  - IndexedDB
  - Web SQL
  - Cookies
  - Private state
  - Interest group
  - Shared storage
  - Cache storage
    - offline - http
    - dynamic-pw

Details for the first service worker listed:

  - Received 16/3/2024, 10:05:01 am.
  - Status: #41 activated and is running [stop](#)
  - Push: {"method": "pushMessage", "message": "He"} [Push](#)
  - Sync: test-tag-from-devtools [Sync](#)
  - Periodic Sync: test-tag-from-devtools [Periodic Sync](#)
  - Update Cycle: Version, Update Activity, Timeline
    - #41 Install
    - #41 Wait
    - #41 Activate

Bottom tabs: Console, Issues, +.

# CATEGORIES & UPLOAD PRODUCT

kaushik-pwa-ecom.netlify.app/electronics

Comrademarket.com    About    Categories    Contact    Upload product 



GLD008 2.1 subwoofer  
 RATING  
100% VERIFIED • Available locally • Trusted seller  
Selling at a comrade price and can be negotiable

Ksh 2,500 ~~KSH3,000~~  
Free delivery

[Whatsapp](#)  
[Call seller](#)



Tenda Wireless Router  
 RATING  
100% VERIFIED • Available locally • Trusted seller  
Tenda wireless router N500 MODEL f3  
Second hand and in good condition

Ksh 2,000 ~~KSH2,200~~  
Free delivery

[Whatsapp](#)  
[Call seller](#)



Bass Headphones

upload a product

Enter product name \*

Watch

Enter phone number \*

9321546882

format:07..

Enter price \*

1200

In KSH

Category \*

- furniture
- electronics
- sneakers
- clothes
- general

Product description \*

Smart watch

include price in description

upload product image \*

 [Browse Files](#)  
Drag and drop files here

watch.jpeg

Upload product

# LIGHTHOUSE

Dimensions: Responsive ▾ 2408 x 2135 30% ▾ No throttling ▾ ⚡

Elements Console Sources Network Performance Memory Application Security Lighthouse

11:34:26 AM - 127.0.0.1:5500

http://127.0.0.1:5500/index.html

Comrademarket.com Categories Home Contact

OUR CATEGORIES  
Finding Best Products Now in Your Fingertips

Mobile Phones Tech Accessories Cheap Furniture Dope sneakers

Affordable Laptops Find the Drip Smart Electronics General

Available on Google play

95 86 89 100 PWA

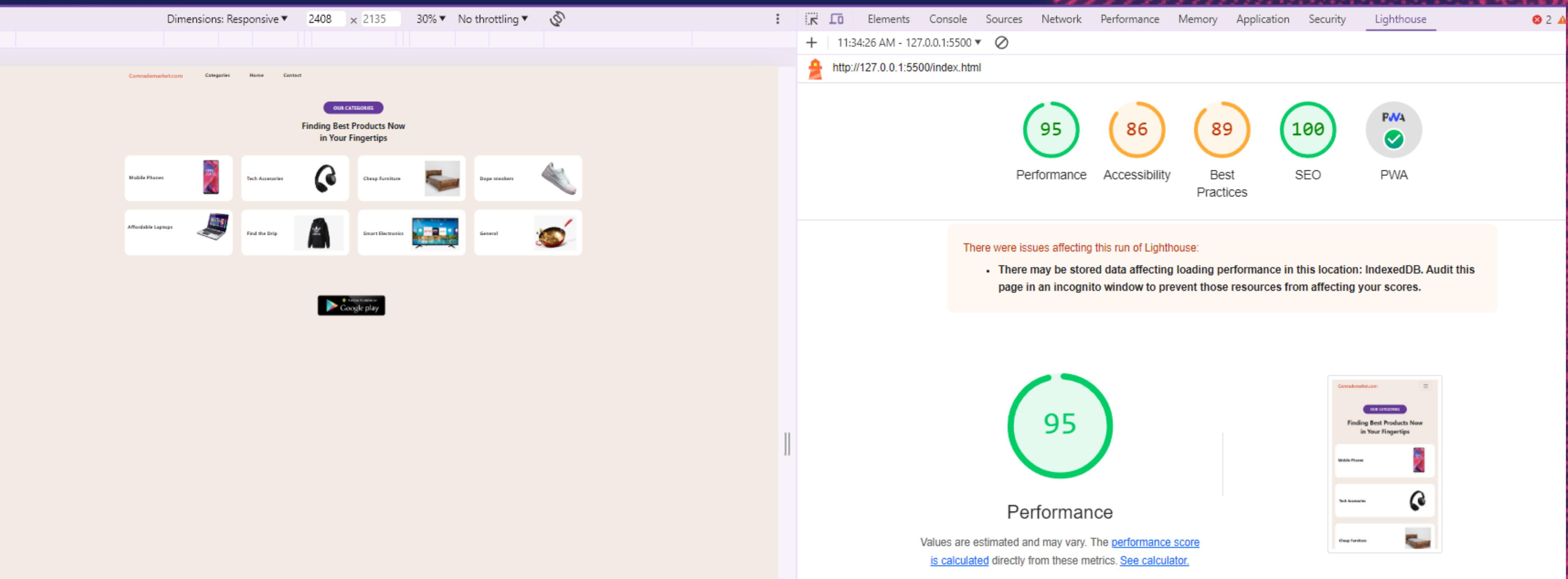
Performance Accessibility Best Practices SEO PWA

There were issues affecting this run of Lighthouse:

- There may be stored data affecting loading performance in this location: IndexedDB. Audit this page in an incognito window to prevent those resources from affecting your scores.

95 Performance

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)



# Thank You