

OUTPUT :-

Step 1:-Visit the official website of Flutter.

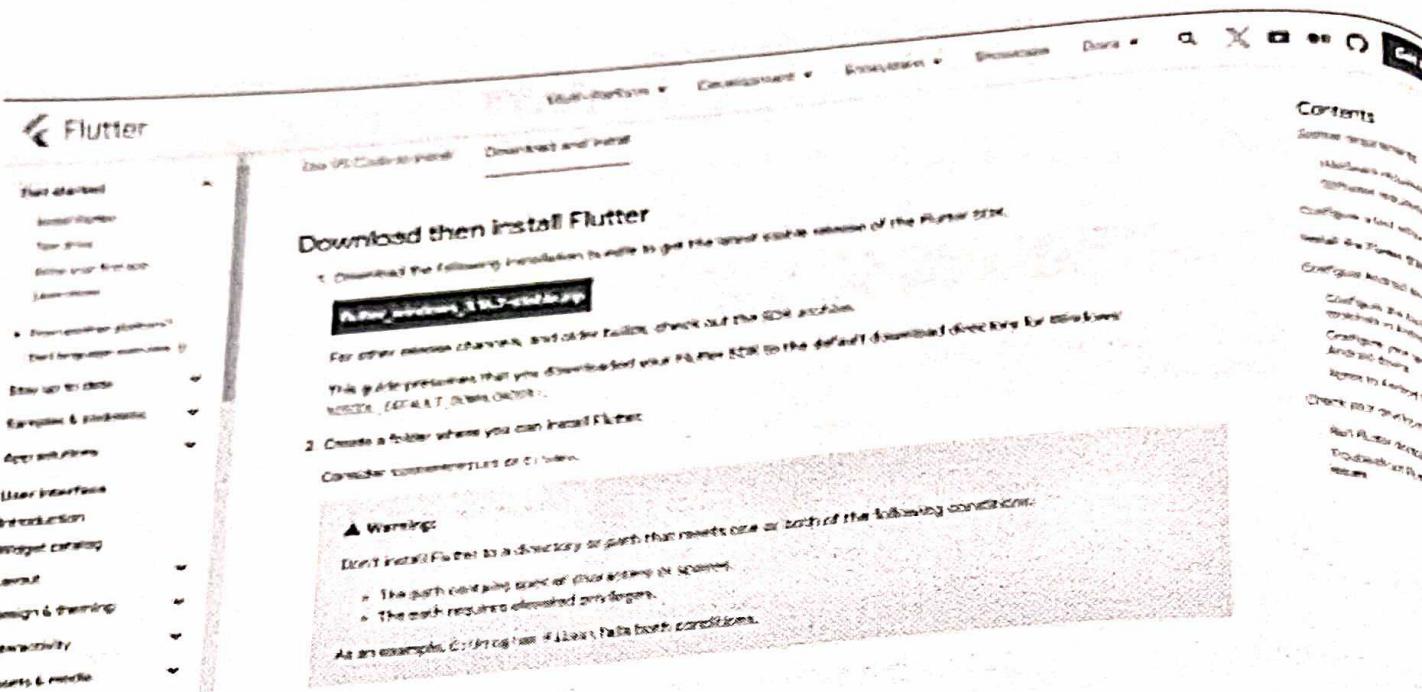
The screenshot shows the Flutter official website's homepage. The main heading is "Choose your development platform to get started". It features icons for Windows, macOS, Linux, and ChromeOS. A note at the bottom left says: "Important: If you develop apps in China, check for using Flutter in China". The left sidebar contains a navigation menu with items like Get Started, Samples & codebases, Applications, User Interface, Interaction, Widget catalog, Layout, Design & Theming, and Interactivity.

Step 2:-Select the type of App

This screenshot shows the "Choose your first type of app" section. It offers three options: Desktop, Mobile, and Web. The "Mobile" option is highlighted with a red arrow pointing to it. A note below says: "Your choice defines which method of Flutter building you configure later on. That Flutter has three different ways of you don't take a preference choose mobile." The left sidebar is identical to the previous screenshot.

Step 3:- Download Flutter SDK

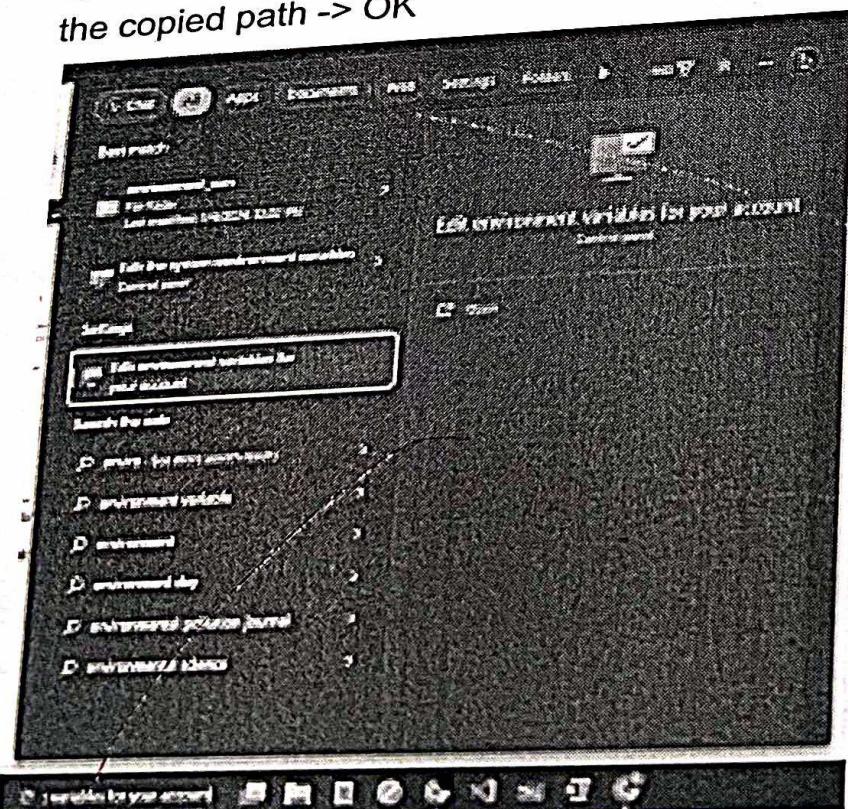
This screenshot shows the "Start building Flutter Android apps on Windows" guide. It includes sections for "System requirements", "Hardware requirements", and a table comparing "Requirement", "Minimum", and "Recommended" values. The left sidebar is identical to the previous screenshots. On the right side, there is a "Contents" sidebar with links to "Online requirements", "Hardware requirements", "Software requirements", "Configure a text editor or IDE", "Install the Flutter SDK", "Configure a build environment", "Configure the Android Tookit in Android Studio", "Configure your target Android device", "Agree to Android licenses", "Check your development setup", "Run Flutter Doctor", and "Troubleshoot Flutter Doctor issues".

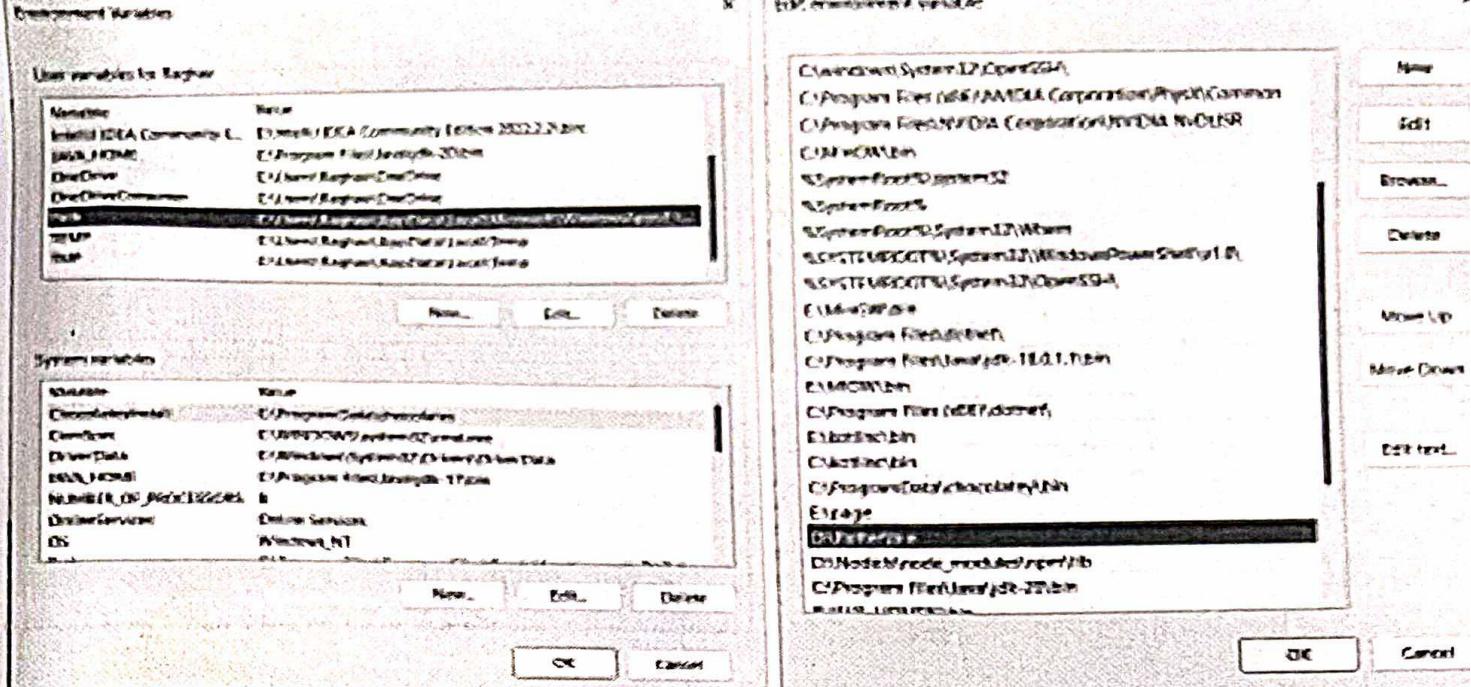


Step 4:- Extract the ZIP File

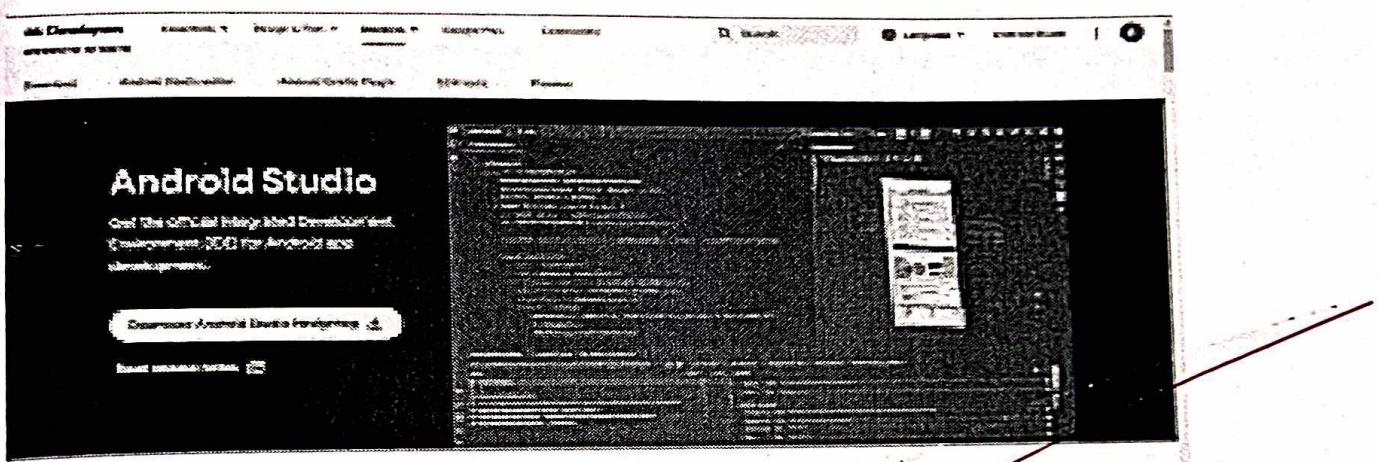
Step 5:-Add Flutter SDK path to environment variables

Go to extracted file -> select Bin Path -> search for environment variables -> Edit Path -> the copied path -> OK



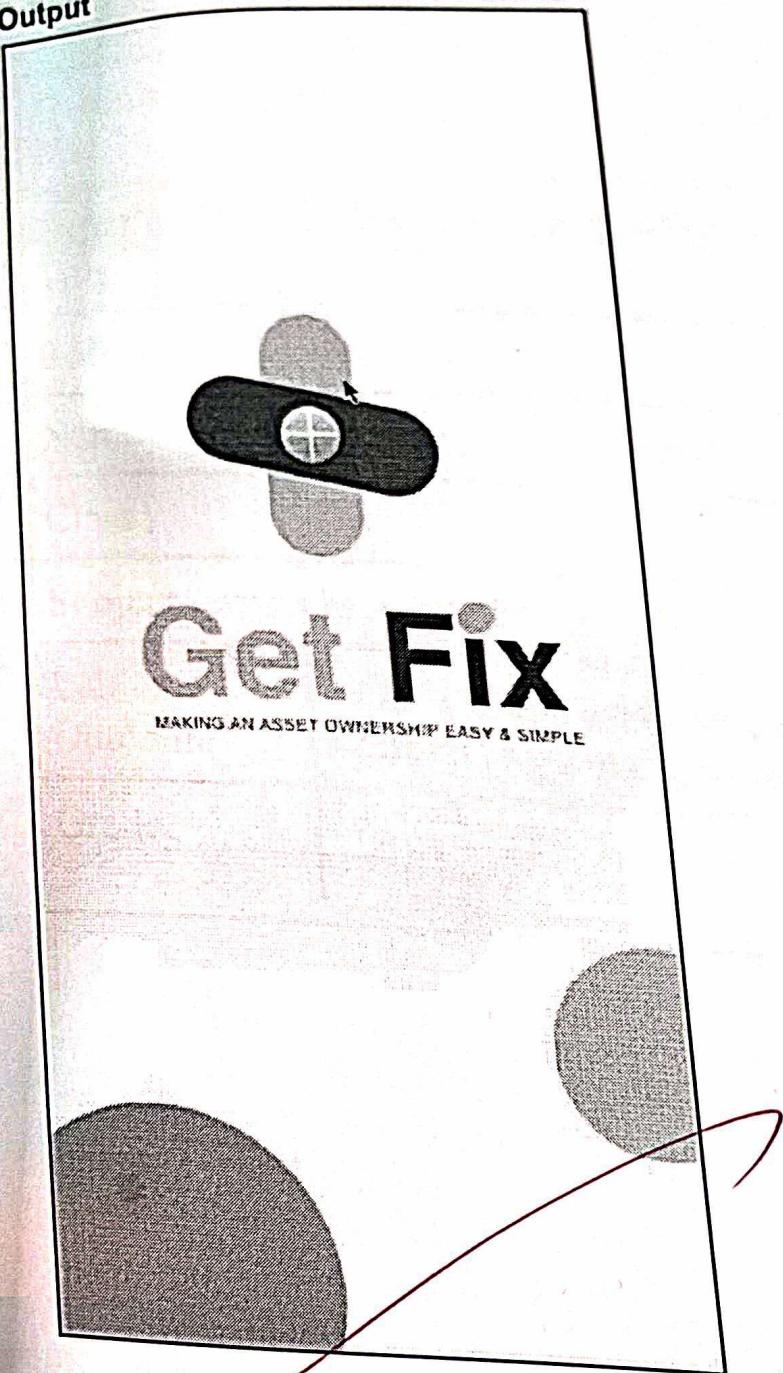


Step 6:- Visit Official Site for Android Studio

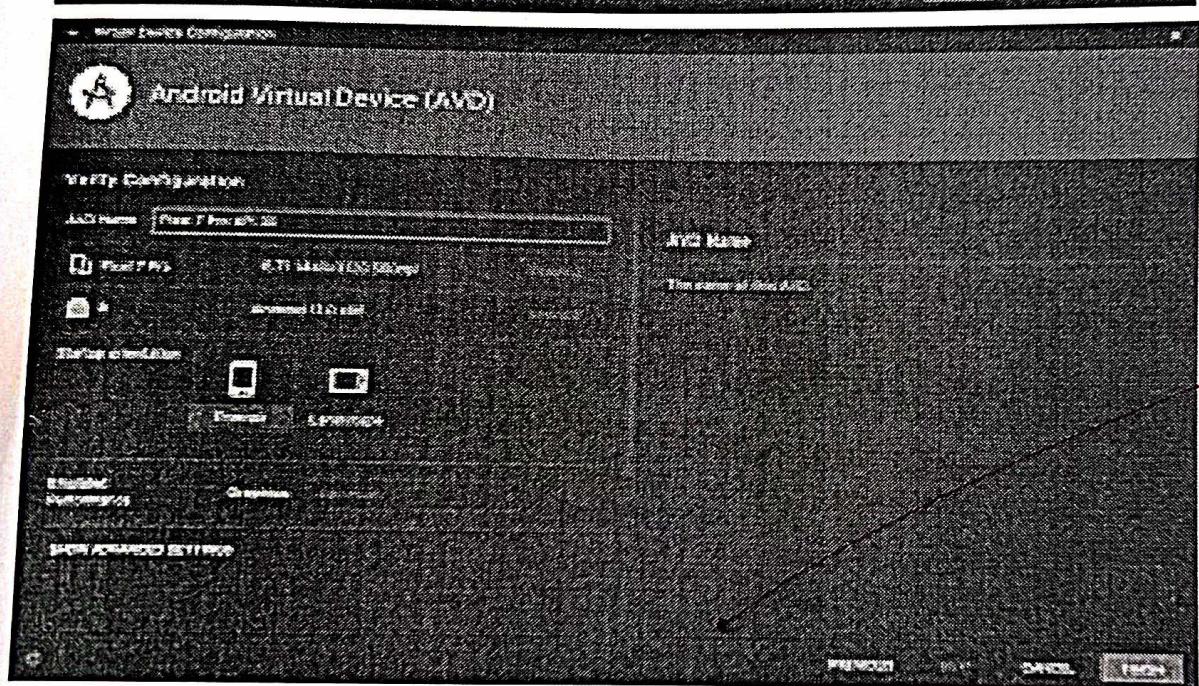


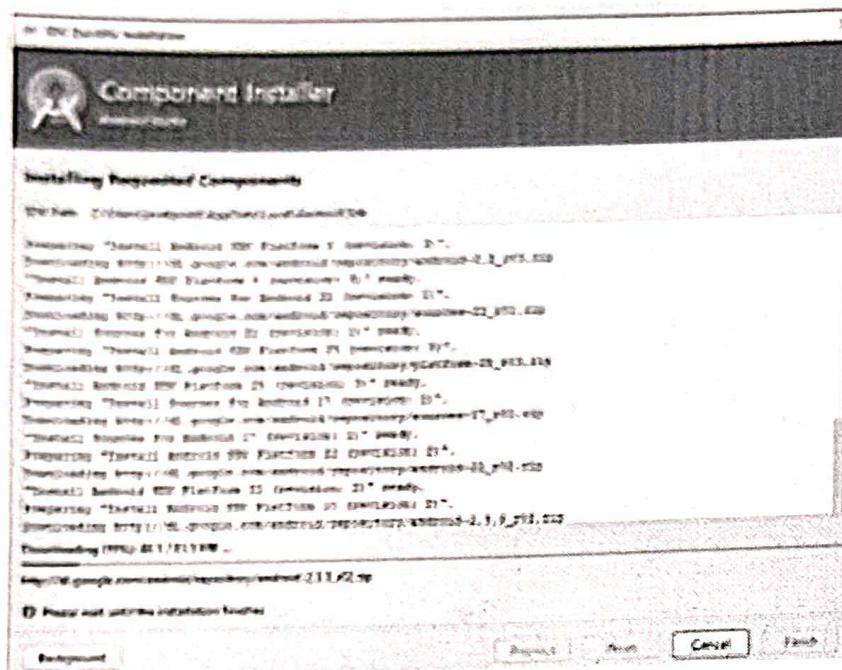
Step 7:-Install Android SDK

Output



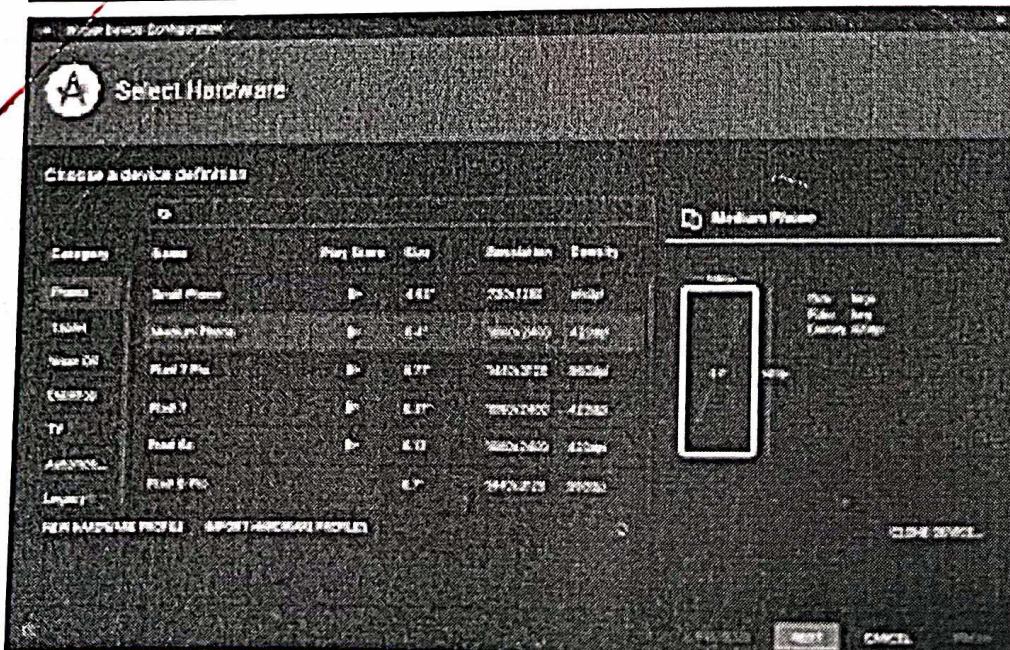
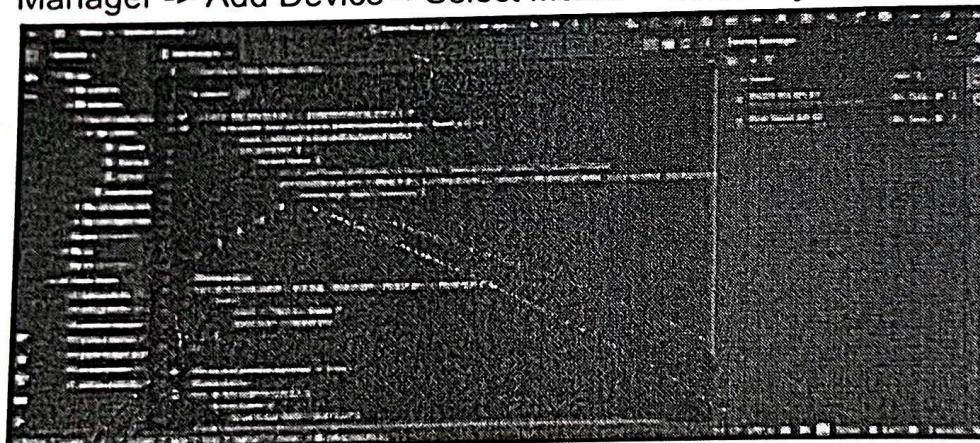
J.





Step 8:-Accept Android License

Step 9:-Install AVD (Android Virtual Device) from Android Studio Device Manager -> Add Device ->Select Model ->Select System Image - > Finish



Online Maintenance Service

localhost:61501

IFIX

MAKING AN ASSET OWNERSHIP EASY & SIMPLE

Please enter your Cell Number

Please enter the 4 digit verification
Code sent to your cell number
310 555 5555 via SMS message
or CHANGE your number.

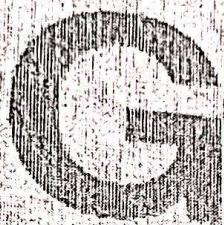
1

2

3

4

Resend OTP



Get

Fix

MAKING AN ASSET OWNERSHIP EASY & SIMPLE

SignUp

Sanika

Mehetre

abc@gmail.com

...



Type here to search



1:48 -

0.00 5G 99%

Home Services



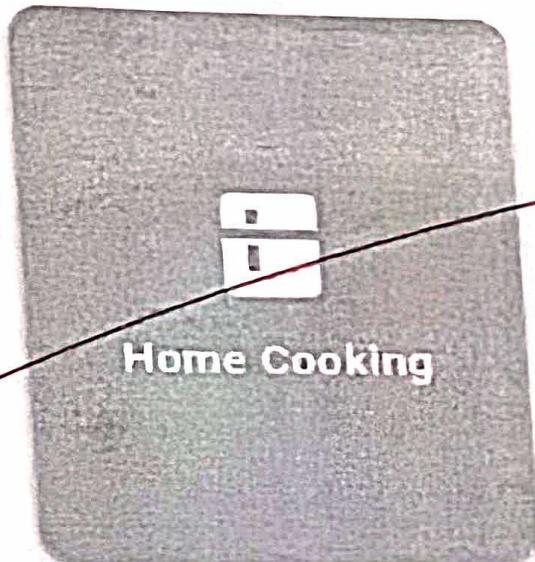
Welcome, abcd@gmail.com



Pest Control



Plumbing



Home Cooking

JL



MAKING AN ASSET OWNERSHIP EASY & SIMPLE

Sign In

Email

Password



SIGN IN

Forgot Password | OTP LOGIN

Or Sign In With



SIGNUP



Type here to search



Online Maintenance Service

localhost:61501

get FIX
MAKING AN ASSET OWNERSHIP EASY & SIMPLE

Sign In

abc@gmail.com

...

I



SIGN IN

Forgot Password | OTP LOGIN

Or Sign In with



Type here to search



Fix

MAKING AN ASSET OWNERSHIP EASY & SIMPLE

You Account
Has Been Verified
Successfully



Name: Sanika Mehetre
Div: D15B / 34

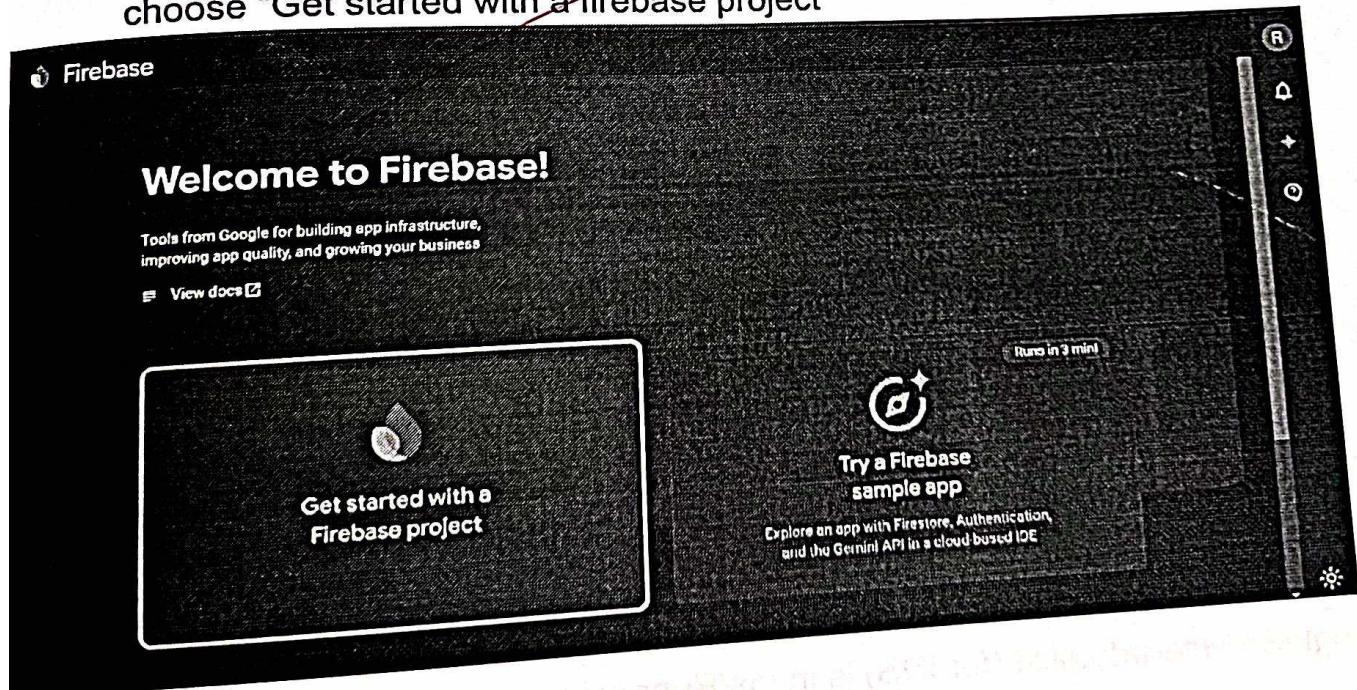
Aim: To setup firebase with flutter.

steps:

- 1) Go to Firebase official website



- 2) Scroll down and we'll see a "Get started" button. Click on it. We can see the following, choose "Get started with a firebase project"



- 3) Name your project. I have named "Mad-lab"

Book Your Service

Service at

Udhana

Udhna Taluka

Gorai

Taluka

Dindoli

BOTTOM OVERFLOWED BY 10.0 PIXELS

Hygiene

Electrical

Appliances

Plumbing

AC Repair

Per Hour Charges:\$20

Note: Part price is additional

Enter job description for service

Service Later

Book Now

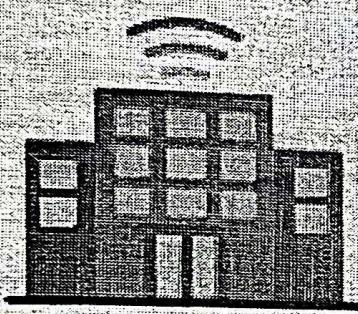


Type here to search

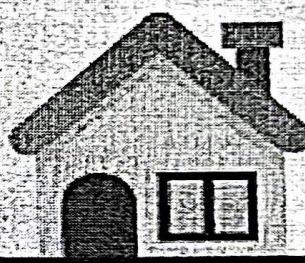


Get Fix

Hi Choose
Your Service Area



Business
Organisation



Home
Personal



Search for service

Current Location:
Service Location near - Jaipur 302019

Late

Search Now

```
> firebase_auth  
> firebase_core  
> firebase_storage  
> native_assets  
> path_provider_android
```

thriftstore_listings.dart

firebase_options.dart

main.dart

> linux

! analysis_options.yaml

firebase.json

mpl_lab.iml



- Ensure the `firebase_core` package is initialized correctly.

6) Initialize Firebase in `main.dart`:

```
lib/main.dart
1 import 'package:firebase_core/firebase_core.dart';
2 import 'package:flutter/material.dart';
3 import 'pages/IntroPage.dart';
4
5 void main() async {
6   WidgetsFlutterBinding.ensureInitialized();
7   await Firebase.initializeApp();
8   runApp(MyApp());
9 }
```

7) Run the following commands to add the packages

```
flutter pub add firebase_auth
flutter pub add cloud_firestore
flutter pub add firebase_storage
flutter pub add firebase_messaging
```

8) Android Configuration:

Ensure `google-services.json` is in `android/app/`.

9) Test Firebase Integration:

```
flutter clean
```

```
flutter pub get
```

```
flutter run
```

After that you will see the following new folders and files

x Create a project

Let's start with a name for
your project^①

Project name

Mad-lab

mad-lab-14f2c

Continue

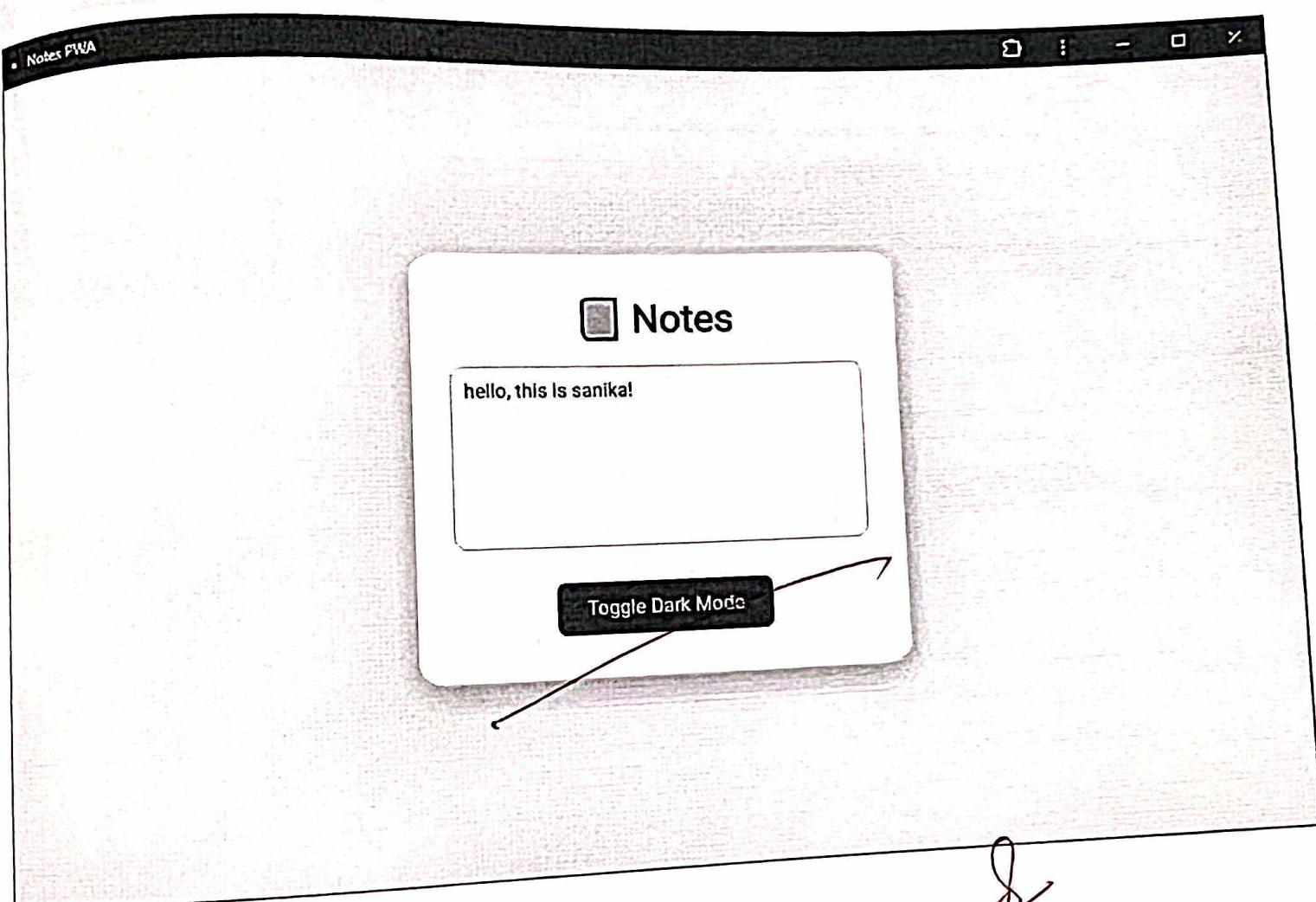
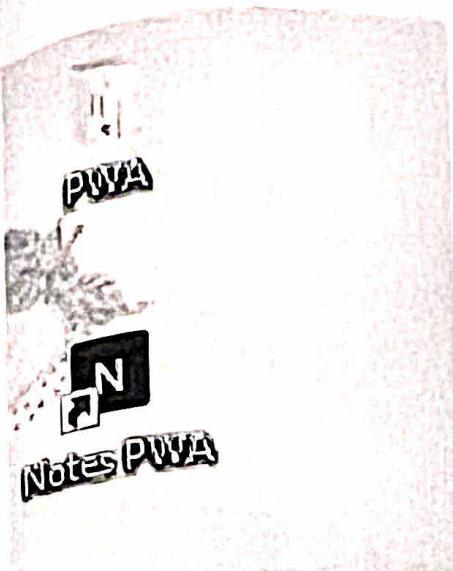
Already have a Google Cloud project?
[Add Firebase to Google Cloud project](#)

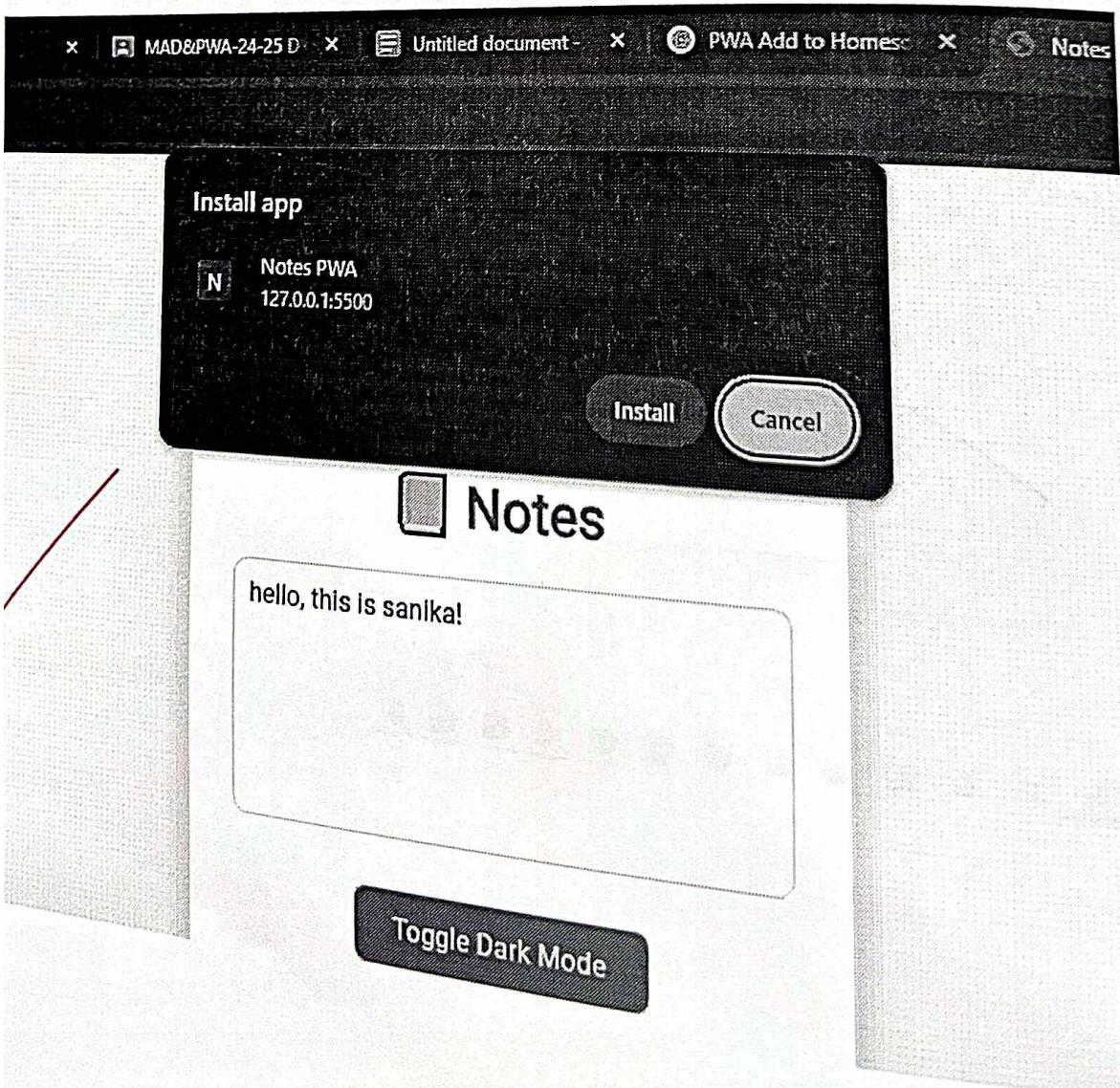
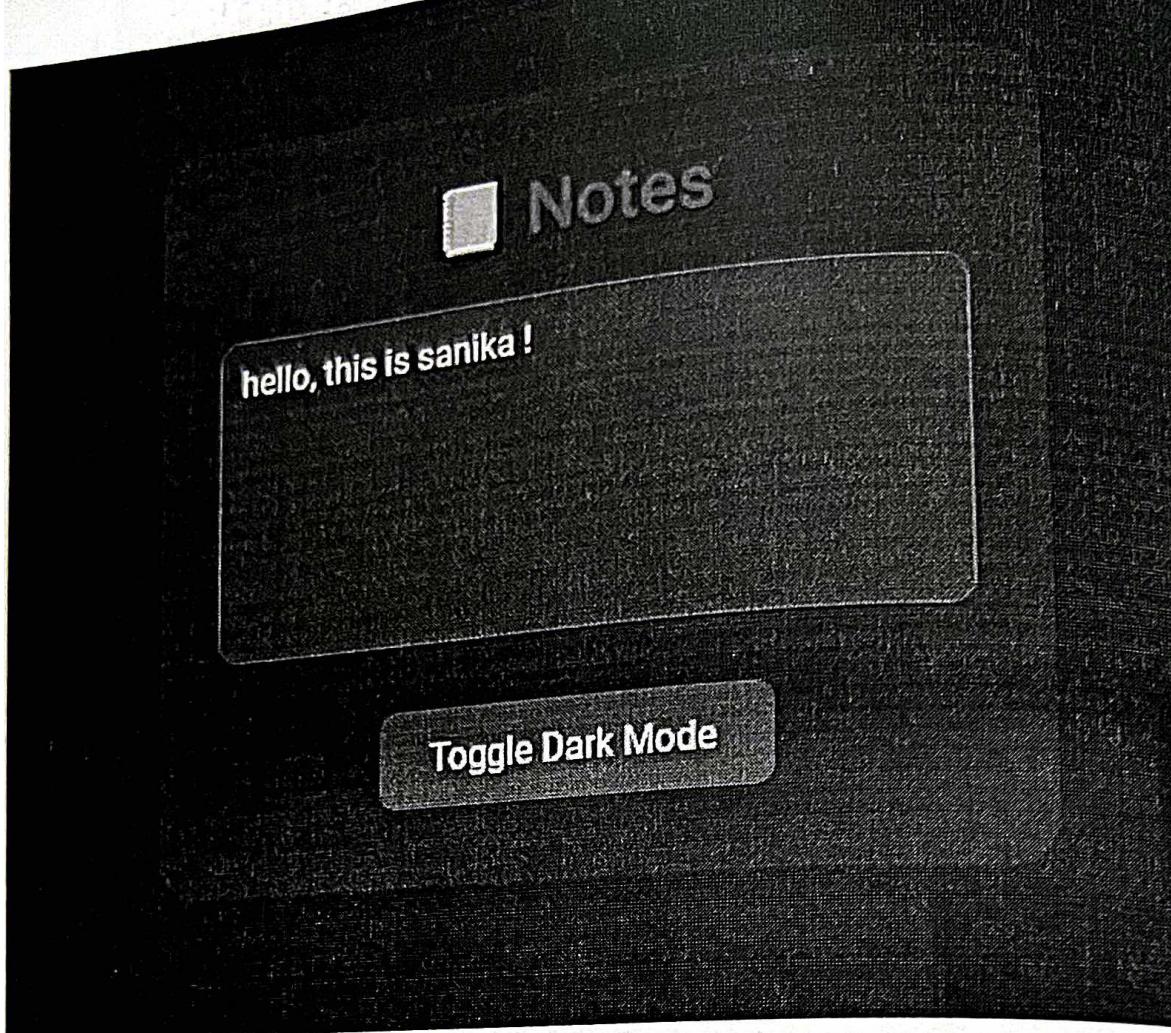
- 4) Select appropriate settings. Below is one example of it. After you have completed all steps you will see the following.

The screenshot shows the Firebase Project Overview page for a project named 'Mad-lab'. The left sidebar includes sections for Generative AI (Build with Gemini, Genkit), Product categories, Build, Run, Analytics, and Related development tools (IDX). The main content area features a large call-to-action button with the text 'Get started by adding Firebase to your app' and icons for iOS, Android, and various development frameworks. It also includes a section for adding an app and a 'Spark plan' tab. A cartoon illustration of two people is visible in the background.

- 5) After these steps we need to verify-

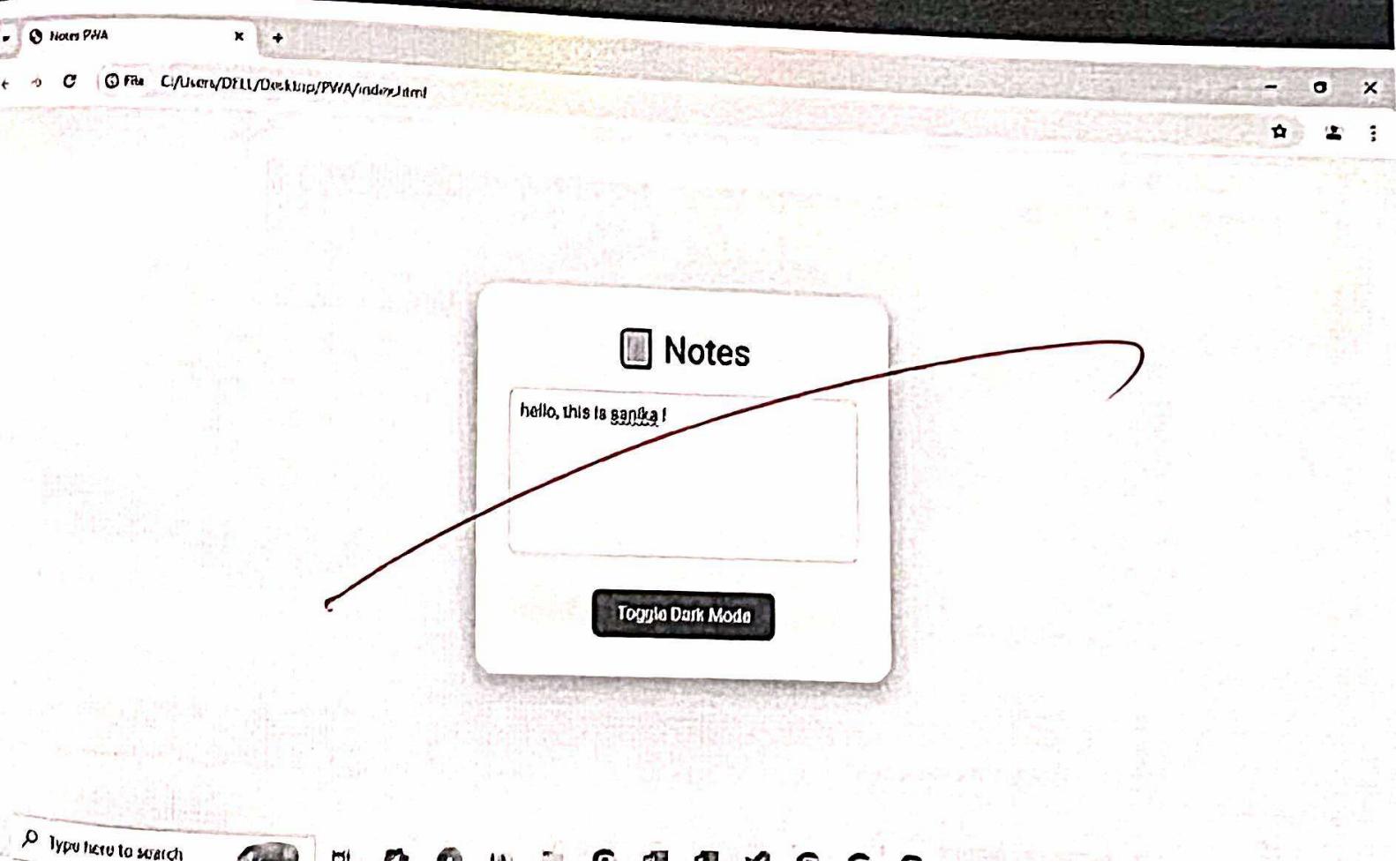
- google-services.json (for Android) is in android/app/
- GoogleService-Info.plist (for iOS) is in ios/Runner/





```
index.html  manifest.json X service-worker.js
manifest.json > ...
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
```

```
{
  "name": "Notes PWA",
  "short_name": "Notes",
  "start_url": ".",
  "display": "standalone",
  "background_color": "#f2f2f2",
  "theme_color": "#673AB7",
  "description": "A simple offline notes app with dark mode and Add to Home Screen feature.",
  "icons": [
    {
      "src": "icons/icon-192.png",
      "sizes": "192x192",
      "type": "image/png"
    },
    {
      "src": "icons/icon-512.png",
      "sizes": "512x512",
      "type": "image/png"
    }
  ]
}
```



A screenshot of a GitHub repository page for 'notes-pwa'. The repository has 2 branches and 0 tags. It contains files like README.md, index.html, manifest.json, and serviceworker.js. There are four commits listed: 'Initial commit' (24 days ago), 'Add files via upload' (11 minutes ago), 'Add files via upload' (9 minutes ago), and 'Add files via upload' (9 minutes ago). The repository has 2 comments. On the right, there's an 'About' section with no description, activity, 0 stars, 1 watching, and 0 forks. Below it are sections for 'Releases' (no releases published) and 'Packages' (no packages published). The status bar shows the date as 05-Apr-23 and time as 12:42 AM.

A screenshot of the GitHub Pages settings for the 'notes-pwa' repository. Under 'General', there are sections for 'Access', 'Collaborators', 'Moderation options', 'Code and automation', and 'Pages'. The 'Pages' section is currently selected. Under 'GitHub Pages', it says 'Your site is live at <https://sanikameh.github.io/notes-pwa/>' and was last deployed 14 minutes ago. Under 'Build and deployment', there are sections for 'Source' (set to 'Deploy from a branch') and 'Branch' (set to 'gh-pages'). A note says 'Your GitHub Pages site is currently being built from the gh-pages branch. Learn more about configuring the publishing source for your site.' A 'Save' button is visible. A red arrow points from the 'Visit site' button on the GitHub Pages card below to the 'Visit site' button here.

GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

Your site is live at <https://sanikameh.github.io/notes-pwa/>
Last deployed by  Sanikameh 14 minutes ago

[Visit site](#) [...](#)

Notes PWA

127.0.0.1:5500/index.html

Elements Console Sources Network Performance Memory Application Privacy and security Lighthouse Browser

Application

- Manifest
- Service workers
- Storage

Service workers

- Online
- Update on reload
- Bypass for network

https://127.0.0.1:5500/ - deleted

Source Status Clients

Push Test push message from DevTools.

Sync test-tag-free-devtools

Periodic sync test-tag-free-devtools

Update cycle Version Update Activity Timeline

Service workers from other origins

Console What's new AI assistance

What's new in DevTools 135

See all new features

Type here to search

10:18 AM 03-Apr-25

This screenshot shows the Chrome DevTools Application panel for a PWA. The left sidebar lists 'Application' (Manifest, Service workers, Storage), 'Service workers' (status: Online, update on reload, bypass for network), and 'Background services' (Back/forward cache). The main area shows a service worker configuration with sections for Push (Test push message from DevTools), Sync (test-tag-free-devtools), Periodic sync (test-tag-free-devtools), and Update cycle (Version, Update, Activity, Timeline). A note at the bottom says 'Service workers from other origins'. The status bar at the bottom right shows '10:18 AM 03-Apr-25'.

Service workers

Offline Update on reload Bypass for network

Notes PWA

Notes

hello, this is sanika!

Toggle Dark Mode

10:21 AM 03-Apr-25

This screenshot shows a browser window displaying a PWA. The page content includes a 'Notes' card with the text 'hello, this is sanika!' and a 'Toggle Dark Mode' button. A red annotation with a curved line points from the top-left of the browser window towards the 'Notes' card. Another red annotation with a curved line points from the bottom-right of the browser window towards the right edge of the page content. The status bar at the bottom right shows '10:21 AM 03-Apr-25'.

This screenshot shows the Chrome DevTools Application tab for a PWA. The left sidebar lists various storage and service worker-related items:

- Manifest
- Service workers
- Storage
 - Local storage (Http://127.0.0.1:5500)
 - Session storage
 - Extension storage
 - IndexedDB
 - Cookies
 - Private state tokens
 - Interest groups
 - Shared storage
 - Cache storage
 - Storage buckets
- Background services
- Console
- What's new
- AI assistance & Filter

The main panel displays the Service workers section, which includes:

- Service workers from this origin
- Service workers from other origins
- Live reload enabled.
- Service Worker Registered
- Failed to load resources: the server responded with a status of 404 (Not Found)
 - Error while trying to use the following icon from the Manifest: <http://127.0.0.1:5500/icons/icon-192.png>
 - (Download error or resource isn't a valid image)

At the bottom, there are tabs for Default levels, Issues, and a search bar with placeholder text "Type here to search".

This screenshot shows the Chrome DevTools Lighthouse tab for a PWA. The interface includes:

- A title "Generate a Lighthouse report" with a "Learn more" link.
- Mode selection: Navigation (Default) (radio button selected), Timespan, Snapshot.
- Device selection: Mobile (radio button selected), Desktop.
- Categories checked: Performance, Accessibility, Best practices, SEO.
- Analyze page load button.
- Console tab showing errors:
 - [ServiceWorker] Caching app shell
 - GET file:///127.0.0.1:5500/icons/icon-192.png 404 (Not Found)
 - Error while trying to use the following icon from the Manifest: <http://127.0.0.1:5500/icons/icon-192.png> (Download error or resource isn't a valid image)
 - Uncaught (in promise)
- Bottom status bar: "meet.google.com is sharing your screen." and "Stop sharing".

App Manifest

manifest.json

Errors and warnings

- ⚠ Richer PWA Install UI won't be available on desktop. Please add at least one screenshot with the form factor set to wide.
- ⚠ Richer PWA Install UI won't be available on mobile. Please add at least one screenshot for which form factor is not set or set to a value other than wide.
- ⚠ Icon <https://sanikameh.github.io/notes-pwa/icon/icon-192.png> failed to load
- ⚠ Icon <https://sanikameh.github.io/notes-pwa/icon/icon-312.png> failed to load
- ⚠ Most operating systems require square icons. Please include at least one square icon in the array.

Installability

- ⚠ No supplied icon is at least 144 pixels square in PNG, SVG, or WebP format, with the purpose attribute unset or set to 'any'.

Identity

Name Notes PWA

Short name Notes

Description A simple offline notes app with dark mode and Add to Home Screen feature.

Computed App ID <https://sanikameh.github.io/notes-pwa/> [Learn more](#)

What's new X

X

Identity

Name Notes PWA

Short name Notes

Description A simple offline notes app with dark mode and Add to Home Screen feature.

Computed App ID <https://sanikameh.github.io/notes-pwa/> [Learn more](#)

Note: id is not specified in the manifest, start_url is used instead. To specify an App ID that matches the current identity, set the id field to /notes-pwa/

Presentation

Start URL :

Theme color #673AB7

Background color #f2f2f2

Orientation

Display standalone

Protocol Handlers

① Define protocol handlers in the manifest to register your app as a handler for custom protocols when your app is installed.

What's new X

X

D manifest
Service workers
Storage
Local storage
Session storage
Extension storage
IndexedDB
Cookies
Private state tokens
Interest groups
Shared storage
Cache storage
Storage buckets
Background services
Back/forward cache
Background fetch
Background sync
Bounce tracking miti...
Notifications
Payment handler
Periodic background ...
Speculative loads
Console AI assistance

Application
Manifest
Service workers
Storage
Local storage
Session storage
Extension storage
IndexedDB
Cookies
Private state tokens
Interest groups
Shared storage
Cache storage
Storage buckets

Background services
Back/forward cache
Background fetch
Background sync
Bounce tracking miti...
Notifications
Payment handler
Periodic background ...
Speculative loads
Console AI assistance

