

SRI VENKATESWARA COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS

workshop on

FLUTTER APP DEVELOPMENT

FROM 18/02/2023,SATURDAY (CONNECT WITH US EVERY WEEK-END)

10:00a.m onwards

Topics to be covered:

- Installation of Flutter and Android Studio and running the sample program Workshop
- Widgets
- Fonts, Colors, Styling UI
- List view and Grid View
- Page Navigations
- REST API integration
- Firebase Part-1
- Firebase Part-2

E-certificates will be provided to all the participants!!

OPEN TO ALL YEARS

Registration link:

<https://forms.gle/PpyR5LpAfLCXfSDP9>

For queries contact:

Kishore M, Final year ECE (Mentor): +91 6379 659 221

FACULTY CO-ORDINATORS:

Dr.D.Menaka,Ms.K.Srividhya,Ms.S.Kalyan

Ms.L.Anju,Mr.M.K.Varadarajan

Timestamp	Name:	Year:	College mail ID:	Phone number:	WhatsApp Group Link:
					https://chat.whatsapp.com/HhkbrPuKMczBcocwvf1L4N
2/15/2023 15:54:34	Sudarshan C	III rd	2020ec0235@svce.ac.in	7010875080	
2/15/2023 15:55:48	Parvesh R	II nd	2021ec0010@svce.ac.in	9080067845	Ok
2/15/2023 15:59:09	Haripriya J	II nd	2021ec0052@svce.ac.in	8428672373	
2/15/2023 16:00:58	Kavin amuthan k	II nd	2021ec0686@svce.ac.in	9489231891	
2/15/2023 16:01:35	Rajeshwaran.R	II nd	2021ec0326@svce.ac.in	9787675670	
2/15/2023 16:01:52	MAGESH S	II nd	2021ec0642@svce.ac.in	9344159591	
2/15/2023 16:02:21	Suriya	II nd	2021ec0942@svce.ac.in	7871445772	
2/15/2023 16:02:31	Raaj Kumar S	II nd	2021ec0216@svce.ac.in	9150912499	
2/15/2023 16:09:15	Kiran Sekar	II nd	2021ec0107@svce.ac.in	9677526627	
2/15/2023 16:12:06	Saambavi PU	II nd	2021ec0679@svce.ac.in	9363372036	
2/15/2023 16:16:56	Lathikaa shri.s	II nd	2021ec0307@gmail.com	9123540956	
2/15/2023 16:17:07	V kiran yadav	II nd	2021ec0740@svce.ac.in	7339120852	
2/15/2023 16:19:37	Madhav B	II nd	2021ec0473@svce.ac.in	9789086071	Joined
2/15/2023 17:23:26	VARSHA S	II nd	2021ec0836@svce.ac.in	9150572652	
2/15/2023 17:27:27	Mohanraj R	II nd	2021ec0106@svce.ac.in	6381638947	
2/15/2023 17:33:19	Rahul.K	II nd	2021ec0639@svce.ac.in	7458575416	
2/15/2023 17:52:29	RAM SOLAIAPPAN A	II nd	2021ec0410@svce.ac.in	9514290441	
2/15/2023 18:41:37	S. Yazhini	II nd	2021ec0230@svce.ac.in	8667565967	Ok
2/15/2023 18:44:08	R.SRIDEVI	II nd	2021ec0648@svce.ac.in	9443435496	
2/15/2023 19:20:16	Kamilah	II nd	2021ec0041@svce.ac.in	8925191603	
2/15/2023 19:57:17	Logeshwar A	II nd	2021ec0130@svce.ac.in	8056233656	
2/15/2023 19:59:33	V.Priya Darshini	II nd	2021ec0646@svce.ac.in	8309972223	
2/15/2023 20:09:48	THULASI SRINIVAS M	II nd	2021ec0098@svce.ac.in	9176718158	
2/15/2023 20:10:17	Bhuvaneshwari N.S	II nd	2021ec0248@svce.ac.in	9344265523	
2/15/2023 20:32:55	A.Manojkumar	I st	2022ec0231@svce.ac.in	7418434691	
2/15/2023 20:37:39	Dhanshrepriya P C	II nd	dhanshrepriya@gmail.com	7200694602	
2/15/2023 20:46:31	Sri Bala Murugan K	III rd	2020ec0891@svce.ac.in	9176178311	
2/15/2023 20:49:50	SUBBIAH SUNDRAM Y	III rd	2020ec0081@svce.ac.in	8825674212	
2/15/2023 20:52:01	Srivarshni S	III rd	2020ec0661@svce.ac.in	+918870683499	
2/15/2023 20:58:51	Priyavarshini N	II nd	2021ec0661@svce.ac.in	9445179174	Yes
2/15/2023 20:59:14	LOK RANJAN P	II nd	2021ec0084@svce.ac.in	6374358867	
2/15/2023 21:11:47	Nandhanan R	II nd	2021ec0884@svce.ac.in	7708501331	Joined
2/15/2023 21:17:51	Punitha Kumar K	II nd	2021ec0026@svce.ac.in	9150506110	
2/15/2023 22:00:09	Karuppasamy R	II nd	2021ec0367@svce.ac.in	7305415226	
2/15/2023 22:02:02	Nellai Nayagam V	II nd	2021ec0901@svce.ac.in	7598180370	
2/15/2023 22:17:20	Sri Sandhiya R	II nd	2021ec0057@svce.ac.in	9344335717	
2/15/2023 22:48:18	RAKSHANA S	III rd	2020ec0712@svce.ac.in	9884715300	

Timestamp	Name:	Year:	College mail ID:	Phone number:	WhatsApp Group Link:
2/16/2023 6:44:55	VIJAYASARATHY S	III rd	2020ec0722@svce.ac.in	9345314140	
2/16/2023 7:10:12	K J YAZHINI	II nd	2021ec0649@svce.ac.in	8300595228	Yes
2/16/2023 7:44:24	Thakshith Balaji S	II nd	2021ec0719@svce.ac.in	7598850367	
2/16/2023 7:44:49	Arvind Raj V	II nd	2021ec0590@svce.ac.in	9566127169	
2/16/2023 10:20:12	A.YUVASRI	II nd	2021ec0204@svce.ac.in	8072092912	
2/16/2023 11:46:27	Keerthana D	III rd	2020ec0173@svce.ac.in	7358160826	
2/16/2023 12:05:52	GANESHAN H	II nd	2020ec0059@svce.ac.in	9626184178	
2/16/2023 12:14:03	Siddharth RK	III rd	2020EE0513@svce.ac.in	+918778099310	
2/16/2023 12:18:27	Divya.k	III rd	2020ec0923@svce.ac.in	8300626856	
2/16/2023 12:18:38	JASWIKA M R	III rd	2020ec0927@svce.ac.in	9962488974	
2/16/2023 12:26:02	NAREESH U D	III rd	2020ec0053@svce.ac.in	7845366557	Joined
2/16/2023 12:41:51	NIRMAL R	III rd	202ee0882@svce.ac.in	9385851173	
2/16/2023 12:56:08	HARIHARAN S	III rd	2020mr0422@svce.ac.in	9943498144	
2/16/2023 14:46:15	Santhosh K	III rd	2020it0592@svce.ac.in	9884279481	
2/16/2023 15:07:49	DHANUSH PRIYAN S	III rd	2020ec0159@svce.ac.in	6379293332	Ok
2/16/2023 15:25:58	Harinee V T	I st	2022ec0425@svce.ac.in	7358120955	
2/16/2023 15:40:04	MANOJKUMAR M	I st	2022it0030@svce.ac.in	8248453976	K
2/16/2023 15:46:21	Aswin Kumar K	I st	2022ec0470@svce.ac.in	7904064499	
2/16/2023 15:57:43	Karthick Ramanan S P	III rd	2020ee0436@svce.ac.in	8838348299	
2/16/2023 16:05:29	Priyadarshni B	II nd	2021ec0352@svce.ac.in	7708685187	
2/16/2023 16:16:56	Jakyim Jonan.F	I st	2022ec0799@svce.ac.in	9150930323	Imma gonna join
2/16/2023 16:21:07	ABRRAR SAIF M	III rd	2020cs0012@svce.ac.in	9094617911	Joined
2/16/2023 16:28:54	Madhumitha B	III rd	2020it0823@svce.ac.in	9944416632	
2/16/2023 16:50:27	Magesh S	III rd	2020ec0733@svce.ac.in	9443882662	
2/16/2023 17:15:39	Balaji A	III rd	2020cs0382@svce.ac.in	9176240300	Joined WA group
2/16/2023 17:30:28	Bhavya.S	IV th	2020cs0025@svce.ac.in	8056036135	
2/16/2023 17:31:58	Magdalene Roy	II nd	2021ec0186@svce.ac.in	9489870824	Joined
2/16/2023 17:35:46	Sakthi Maheswari M	III rd	2020ec0697@svce.ac.in	6374063880	Joined
2/16/2023 17:36:23	Srivani M	III rd	2020ec0039@svce.ac.in	7448810203	
2/16/2023 17:38:29	DHARUN ARVIND K C	III rd	2020ec0746@svce.ac.in	6379708828	
2/16/2023 17:42:28	SANJAY LOKESH A M	III rd	2020ec0213@svce.ac.in	7550088594	
2/16/2023 17:43:12	Nithish P	III rd	2020ec0051@svce.ac.in	6379701903	
2/16/2023 17:48:20	ASHWIN.R	I st	2022ec0174@svce.ac.in	7010862355	
2/16/2023 17:54:31	Sahana Balasubramanian	III rd	2020ec0070@svce.ac.in	9789815816	Ok
2/16/2023 17:57:10	SRIRAM V	III rd	2020it0097@svce.ac.in	+919025893621	
2/16/2023 17:58:25	Ajay rohith G	III rd	2020ee0065@svce.ac.in	9345477634	
2/16/2023 18:14:28	Arumugam.B	III rd	2020cs0520@svce.ac.in	7338909332	
2/16/2023 18:14:45	Raja Pandi K	III rd	2020ec0242@svce.ac.in	6382314565	

Timestamp	Name:	Year:	College mail ID:	Phone number:	WhatsApp Group Link:
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2/16/2023 18:22:01	Ashwanthram T	III rd	2020ee0062@svce.ac.in	9698067787	
2/16/2023 18:22:43	Danush t	III rd	2020ec0044@svce.ac.in	9894991413	
2/16/2023 18:29:15	SIVADHAS S	III rd	2020it0035@svce.ac.in	8072361600	
2/16/2023 18:29:29	Swamynath S	III rd	2020it0551@svce.ac.in	6382093428	
2/16/2023 18:33:38	Aravind V	III rd	2020cs0192@svce.ac.in	9150364823	
2/16/2023 18:35:30	S.Sundaram	III rd	2020it0617@svce.ac.in	6383426840	
2/16/2023 18:35:42	Manikandan RM	II nd	2021ec0669@svce.ac.in	+919600867541	
2/16/2023 18:38:58	Sai Shakthi S	III rd	2020ec0701@svce.ac.in	9025875109	Yes
2/16/2023 18:45:15	DHAANYAAKUMAAR G S	III rd	2020ee0445@svce.ac.in	9345526546	.
2/16/2023 19:03:51	DINESH ADHITHYA S B	III rd	2020ec0524@svce.ac.in	8072810263	
2/16/2023 19:09:50	S PRIYADHARSHINI	II nd	2021ec0181@svce.ac.in	7871010122	
2/16/2023 19:42:29	Giritharan.B	II nd	2021ec0169@svce.ac.in	9360463545	
2/16/2023 19:50:22	Amarnath S	II nd	2021ec0202@svce.ac.in	6374747657	
2/16/2023 20:03:06	Vishnu Prahharsh CM	III rd	2020ec0676@svce.ac.in	9384372250	
2/16/2023 20:14:42	Asween Kartheek M	II nd	2021ec0611@svce.ac.in	6369041640	
2/16/2023 20:17:46	K P SRIRAM KAILASH	III rd	2020ee0758@svce.ac.in	8489470463	
2/16/2023 20:26:15	Gnanavel.k	II nd	2021ec0309@svce.ac.in	7094287612	
2/16/2023 20:40:11	Haresh Krishna GS	I st	2022ec0458@svce.ac.in	09884668770	
2/16/2023 20:50:00	S.BALASAKTHI	II nd	2021ec0215@svce.ac.in	8610644063	
2/16/2023 22:42:40	Ajay.B	I st	2022ec0032@svce.ac.in	7338721670	
2/17/2023 12:16:17	Yogeswari P	II nd	2021ec0144@svce.ac.in	7305457654	
2/17/2023 15:47:37	Angelin Sheju	II nd	2021ec0830@svce.ac.in	6385404187	Joined
17/02/2023 15:47:37	Pooja Varadarajan	III rd	2020ec0846@svce.ac.in	9840691502	

First name	Last name	Email	Duration	Time joined	Time exited
SUDARSHAN	C	2020ec0235@svce.ac.in	1 hr 1 min	10:34 AM	11:35 AM
Aravind V	CS	2020cs0192@svce.ac.in	9 min	10:55 AM	11:05 AM
102 Raja Pandi K	EC	2020ec0242@svce.ac.in	20 min	10:38 AM	10:57 AM
114 SAKTHI MAHESWARI M	EC	2020ec0697@svce.ac.in	3 min	10:38 AM	10:41 AM
DHANUSH PRIYAN S	EC	2020ec0159@svce.ac.in	4 min	10:55 AM	10:58 AM
KISHORE M	EC	2019ec0051@svce.ac.in	1 hr 3 min	10:32 AM	11:35 AM
NITHISH P	EC	2020ec0051@svce.ac.in	1 hr 4 min	10:31 AM	11:35 AM
Srivarshni S	EC	2020ec0661@svce.ac.in	58 min	10:37 AM	11:35 AM
SUBBIAH SUNDRAM Y	EC	2020ec0081@svce.ac.in	46 min	10:52 AM	11:38 AM
AJAYKUMAR A J	ECE	2021ec0127@svce.ac.in	55 min	10:40 AM	11:35 AM
AKSHAYA NETHRA N	ECE	2021ec0002@svce.ac.in	1 hr 1 min	10:35 AM	11:36 AM
AMARNATH S	ECE	2021ec0202@svce.ac.in	43 min	10:55 AM	11:38 AM
Anju	ECE	anju@svce.ac.in	20 min	10:24 AM	10:44 AM
KARUPPASAMY R	ECE	2021ec0367@svce.ac.in	43 min	10:37 AM	11:20 AM
MADHAV B	ECE	2021ec0473@svce.ac.in	48 min	10:45 AM	11:33 AM
MAGESH S	ECE	2021ec0642@svce.ac.in	1 hr 7 min	10:29 AM	11:35 AM
MANIKANDAN R M	ECE	2021ec0669@svce.ac.in	1 hr 1 min	10:34 AM	11:35 AM
MANOJKUMAR A	ECE	2022ec0231@svce.ac.in	1 hr 1 min	10:34 AM	11:35 AM
NANDHANAN R	ECE	2021ec0884@svce.ac.in	55 min	10:40 AM	11:35 AM
NELLAI NAYAGAM V	ECE	2021ec0901@svce.ac.in	28 min	11:09 AM	11:38 AM
RAAJ KUMAR S	ECE	2021ec0216@svce.ac.in	58 min	10:37 AM	11:35 AM
RAHUL K	ECE	2021ec0639@svce.ac.in	57 min	10:36 AM	11:35 AM
RAJESHWARAN R	ECE	2021ec0326@svce.ac.in	45 min	10:39 AM	11:35 AM
RAM SOLAIAPPAN A	ECE	2021ec0410@svce.ac.in	54 min	10:41 AM	11:35 AM
SRI SANDHIYA R	ECE	2021ec0057@svce.ac.in	55 min	10:35 AM	11:35 AM
SRI VIDHYA K	ECE	srivi@svce.ac.in	1 hr 16 min	10:22 AM	11:38 AM
VARADARAJAN MK	ECE	rajan@svce.ac.in	5 min	10:43 AM	10:49 AM
078 Sriram Kailash K P	EE	2020ee0758@svce.ac.in	57 min	10:34 AM	11:35 AM
DHAANYAAKUMAAR G S	EE	2020ee0445@svce.ac.in	11 min	10:47 AM	10:58 AM
087 SRIRAM V	IT	2020it0097@svce.ac.in	49 min	10:46 AM	11:35 AM
088 SUNDARAM S	IT	2020it0617@svce.ac.in	15 min	11:20 AM	11:35 AM
HARIHARAN S	MR	2020mr0422@svce.ac.in	32 min	10:49 AM	11:21 AM
RAKSHANA	S	2020ec0712@svce.ac.in	1 hr 3 min	10:34 AM	11:36 AM



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Workshop on FLUTTER APP DEVELOPMENT(18/02/2023-18/03/2023)

The Department of Electronics and Communication conducted a workshop on Flutter app development from February 18th, 2023, to March 18th, 2023. The main objective of the workshop was to introduce participants to the basics of Flutter, including the integration of APIs and Firebase. The workshop was conducted by Mr. M. Kishore and was attended by over 30 participants from various departments of SVCE.

TOPICS COVERED IN WORKSHOP:

1. Installation of flutter and Android Studio and running the sample program.
2. Widgets
3. Fonts,Colors,Styling UI
4. List View and Grid view
5. Page Navigations
6. REST API integration
7. Firebase

SVCE Sri Venkateswara College of Engineering

SRI VENKATESWARA COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS AND COMMUNICATION

**Workshop on
FLUTTER APP DEVELOPMENT**

FROM 18/02/2023, SATURDAY (CONNECT WITH US EVERY WEEK-END)
10:00a.m onwards

Topics to be covered:

- Installation of Flutter and Android Studio and running the sample program Workshop
- Widgets
- Fonts, Colors, Styling UI
- List view and Grid View
- Page Navigations
- REST API integration
- Firebase Part-1
- Firebase Part-2

E-certificates will be provided to all the participants!!

OPEN TO ALL

Registration link:
<https://forms.gle/PpyR5LpAfLCXfSDP9>

For queries contact:
Kishore M, Final year ECE (Mentor): +91 6379 659 221

FACULTY CO-ORDINATORS:
Dr. D.Menaka, Ms. K. Srividhya, Ms. S.Kalyani
Ms. L.Anju, Mr. M.K.Varadarajan

ABOUT THE MENTOR:

Kishore is a final year student currently pursuing ECE at Sri Venkateswara College of Engineering. He is a skilled Flutter and MERN stack developer with experience in building successful applications. Kishore has also won several hackathons, including the UNESCO India Africa Hackathon in 2022 and Smart India Hackathon in 2022.

DAY 1:

On the first day of the workshop, participants were guided through the installation process of Flutter and Android Studio on their computers. They were also taught how to set up the Flutter and Dart plugins in Android Studio.

Once the installation process was complete, participants were introduced to the basics of Flutter app development. They learned how to create and run Flutter projects in Android Studio and were shown how to use the emulator to test their applications. The instructor also demonstrated how to run the Flutter app on a mobile device.

By the end of the day, participants were able to install Flutter and Android Studio on their computers, set up the necessary plugins, and run a basic Flutter app on an emulator or mobile device. The session provided participants with a solid foundation to begin their journey in Flutter app development.

DAY 2:

On the second day of the workshop, participants delved deeper into the basics of Flutter and Dart programming. The session focused on object-oriented programming concepts in Dart, such as classes, objects.

After a theoretical introduction to object-oriented programming in Dart, participants were given a practical assignment. They were asked to create a replica of a given user interface (UI) design using Flutter widgets and Dart programming. This assignment aimed to test the participants' understanding of the Flutter and Dart concepts taught in the previous sessions, as well as their ability to apply them in a real-world scenario.

The participants were given ample time to work on their assignments and were encouraged to ask questions and seek help from the instructor as needed. The instructor also provided feedback and suggestions to help the participants improve their code.

DAY 3:

On the third day of the workshop, participants learned about the Pub.dev package repository and how to use it to install different plugins in their Flutter apps. The session specifically focused on using Pub.dev to install Google Fonts, which is a popular package for adding custom fonts to Flutter apps.

Participants were also taught how to add images to their Flutter apps using the AssetImage widget and the NetworkImage widget. The instructor demonstrated how to load images from the internet and from local storage.

In addition, participants learned how to implement navigation between screens in a Flutter app using the Navigator widget. They were shown how to navigate to a new page when a button is pressed and how to pass data between screens.

DAY 4:

On the fourth day of the workshop, participants were introduced to the concept of API integration in Flutter app development. The session began with a theoretical overview of APIs, followed by a demonstration of how to integrate APIs in a Flutter app.

The instructor explained his own REST API GitHub repository and showed participants how to use it to fetch data for their Flutter app.

After this, participants were introduced to the News API, which is a popular API for fetching news articles from various sources. They learned how to sign up for a News API account and how to use the API to fetch news articles for their app.

DAY 5:

On the fifth day of the workshop, participants were introduced to Firebase, which is a popular platform for mobile and web app development. The session began with a theoretical overview of Firebase, followed by a demonstration of how to create a Firebase account and a project.

The instructor demonstrated his own project which he built using Firebase and showed participants how to integrate Firebase into their Flutter app. The session specifically focused on Firebase Authentication, which is a popular feature of Firebase for authenticating users in mobile and web apps.

Participants were given hands-on experience in setting up Firebase Authentication in their Flutter app. They were shown how to use the Google sign-in method in Firebase to authenticate users with their Google account.

After this, participants learned how to set up Firebase in their Flutter app using the Firebase Console. They were shown how to add Firebase to their project, configure their app to use Firebase, and how to use the Firebase Realtime Database to store and retrieve data.

DAY 6:

On the sixth and final day of the workshop, the instructor began the session by summarizing the topics covered during the previous days of the workshop. He also discussed the importance of using Flutter and Firebase in building modern mobile applications.

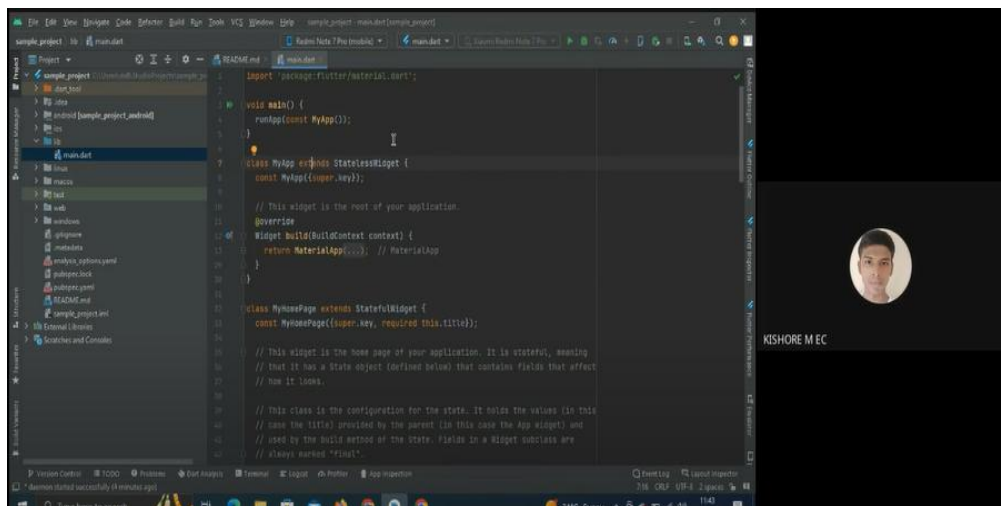
The instructor then shared ideas with participants on how they can use Flutter to create innovative mobile apps with various features that can be showcased in hackathons or other competitions.

The session concluded with a presentation of the instructor's own hackathon project, where he demonstrated how he used Flutter and Firebase to create a mobile app that addressed a real-world problem.

Finally, participants were given the opportunity to ask any doubts or questions they had about Flutter, Dart, Firebase, or any other topics covered during the workshop. The instructor addressed all the queries and cleared any doubts participants had.

By the end of the workshop, participants had gained a better understanding of Flutter, Dart, API integration, Firebase, and how to use them to build modern mobile applications.

SCREENSHOTS:



The screenshot shows an IDE window with a project explorer on the left and a code editor in the center. The code editor displays the following Dart code:

```
import 'package:flutter/material.dart';

void main() {
  runApp(const MyApp());
}

class MyApp extends StatelessWidget {
  const MyApp({super.key});

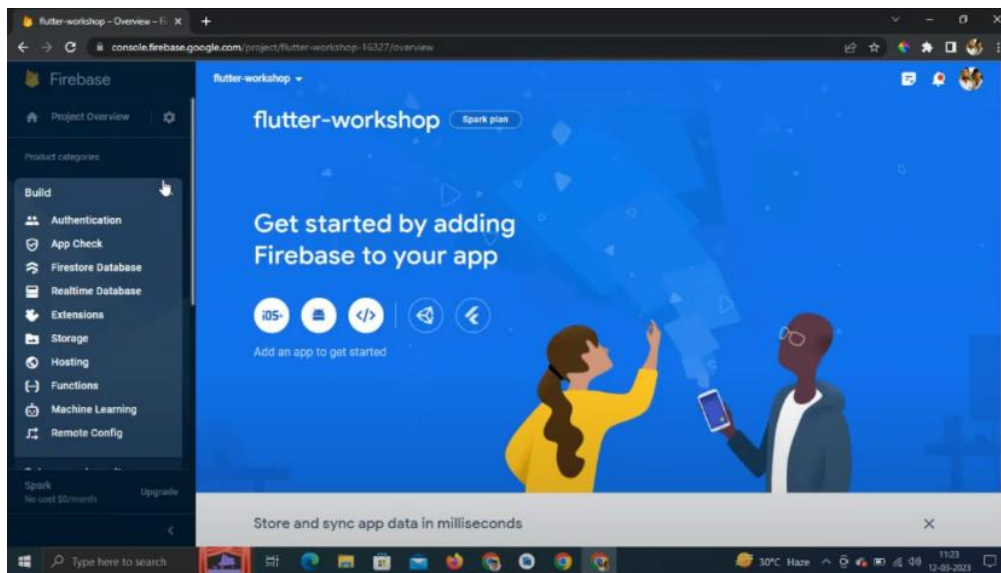
  // This widget is the root of your application.
  @override
  Widget build(BuildContext context) {
    return MaterialApp( // MaterialApp
  );
}

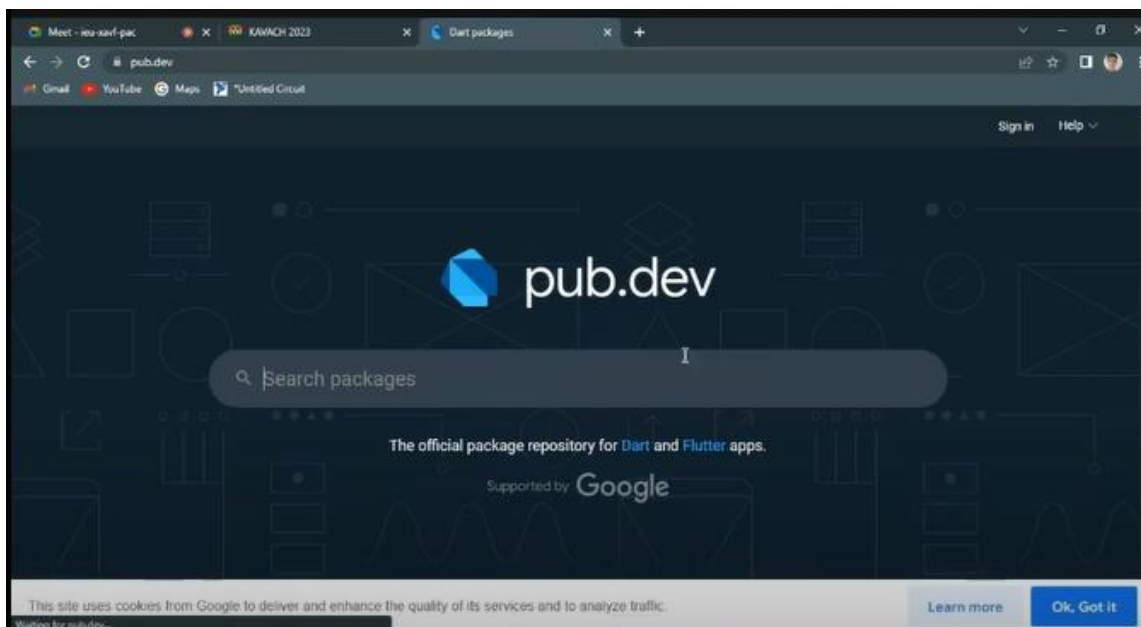
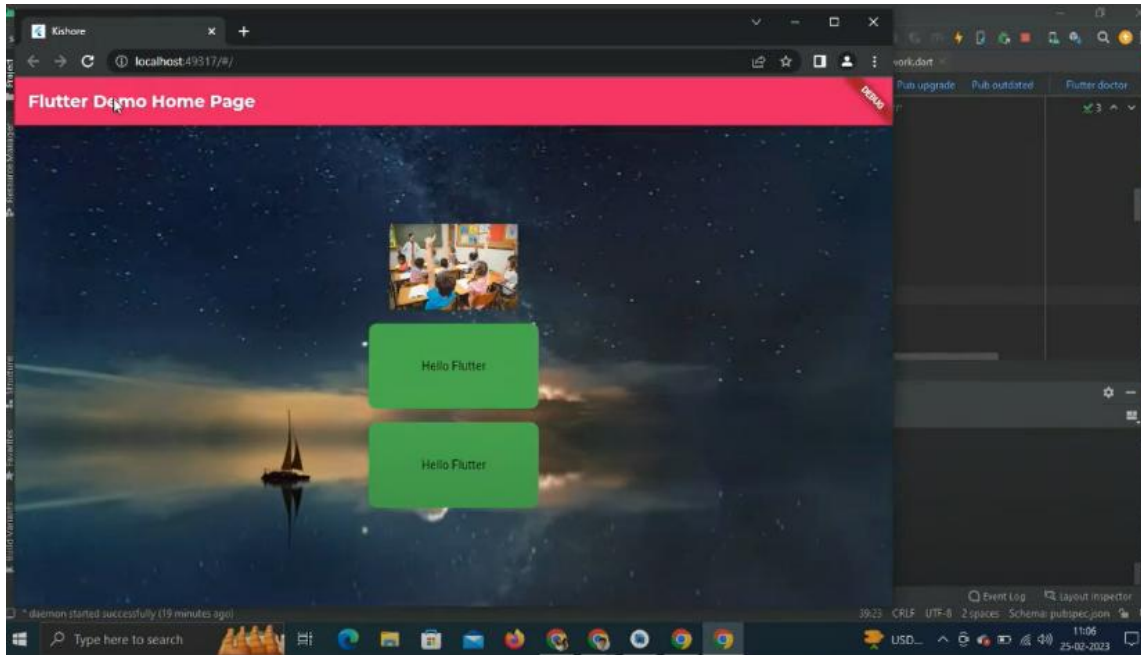
class MyHomePage extends StatefulWidget {
  const MyHomePage({super.key, required this.title});

  // This widget is the home page of your application. It is stateful, meaning
  // that it has a state object (defined below) that contains fields that affect
  // how it looks.

  // This class is the configuration for the state. It holds the values (in this
  // case the title) provided by the parent (in this case the App widget) and
  // uses by the build method of the state. Fields in a Widget subclass are
  // always marked "final".

```





CONCLUSION:

Overall, the workshop was an excellent opportunity for participants to learn about Flutter and its applications in mobile app development. The skills and knowledge gained during the workshop will be valuable for participants in their future endeavors, whether it be in hackathons, competitions, or their professional careers.

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