



**Department:** Computer Engineering

**Event Heading:** Flutter Workshop

**Date:** 24/09/2019

25/09/2019

26/09/2019

27/09/2019

**Section:** ACM Events

**Abstract:**

**Flutter** is an open-source mobile application development framework created by Google. It is used to develop applications for Android and iOS. The flutter workshop was a 4 day workshop on the 24<sup>th</sup>, 25<sup>th</sup>, 26<sup>th</sup> and 27<sup>th</sup> of September 2019, conducted by ACM.

Day 1: (Introduction to flutter and DART)

Mr. Ajay Sharma introduced the student about Hybrid apps and the importance and advantages of Hybrid apps over native apps. He also explained the Difference between react native and flutter, features of flutter, Android Studio and flutter application. Basics and Syntax of DART language were also explained in detail. He also explained that the notable feature of the Dart platform which is its support for "hot reload" where modifications to source files can be injected into a running application. How Flutter extends this with support for stateful hot reload, where in most cases changes to the source code can be reflected immediately in the running app without requiring a restart or any loss of state. This feature was implemented in Flutter which received widespread praise.



## Day 2: ( Creating application using Flutter)

The session was all about creating widgets on the phone for the application. It started with creating a sample Hello World widget using Dart code. Further, the students were thought how to upload the code onto their phones using a USB cable and test the program. Utility skills such as making screens, changing the background color, modification of text such as writing text at any position of the screen with different fonts and font size was thought. The students were later given a task to create their own widgets.

## Day3: (Creating applications using Flutter Cont.)

Details about Scaffold/app bar were explained. The speaker also taught how to give color to text and background. This session mainly focused on creating an app. The body and structure in general was explained. The features of the widget were also discussed in brief. The concept of Splash screen and app icon were also taken up for discussion. More detailed explanation was done regarding the widgets.

## Day4: ( APK release)

Students had to implement all the concepts explained taught till date. After which, the concept of Leading icons (icon on the left side), Trailing icons (icon on the right side), Difference between stateless Widget and stateful Widget were also explained. Making of multiple class and How to take input from user using textfield were also taught. Radio buttons and its functionality, Check box were implemented as well. The process of using val to declare variables was also showed. The speaker also discussed more about buttons and the show dialog box on button press using onPressed. And, the end when everyone had built their login app, he also showed how to release an apk file.

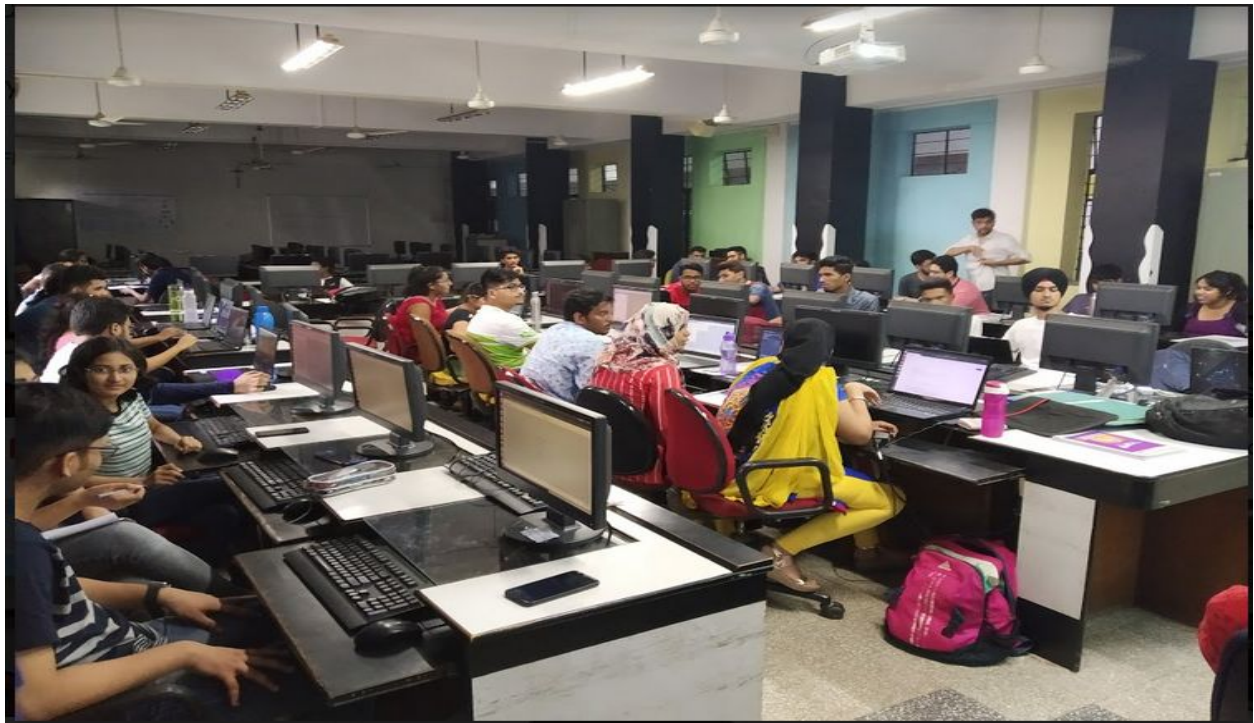
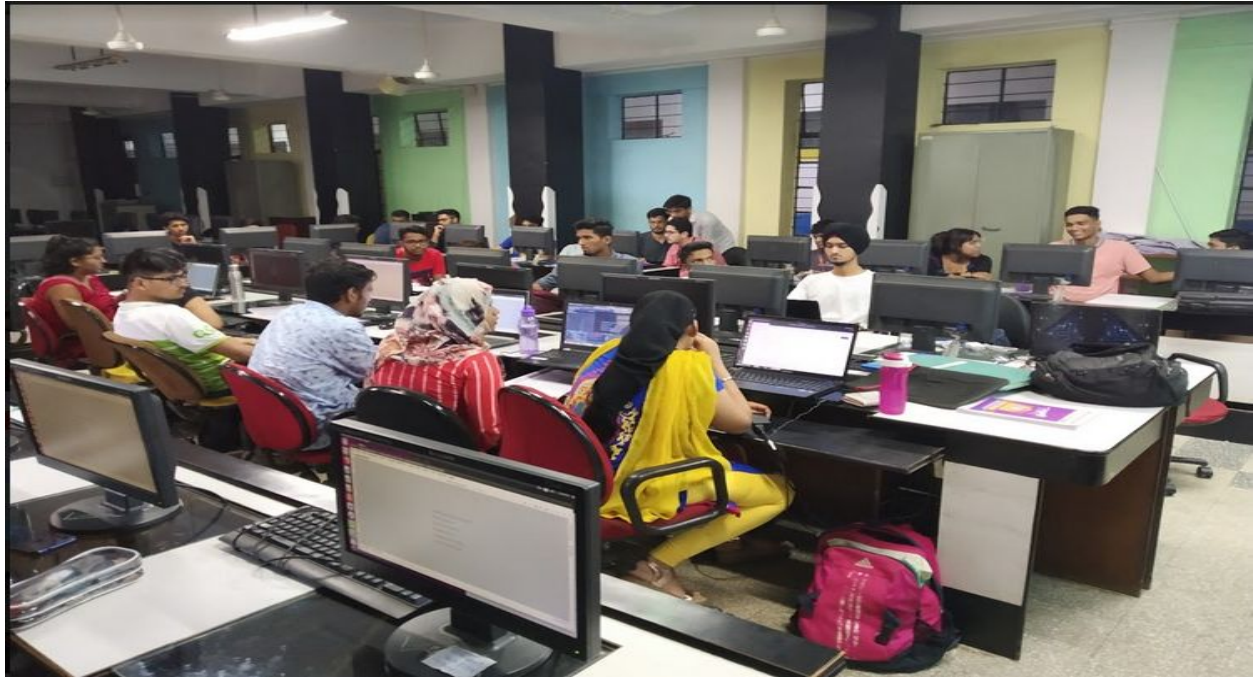












Day 1 - 5pm - 6:30pm

DATE 24/09/19

Sr. No.	Name	Branch/Year	ACM/Non ACM Member	Sign
1	Rebecca Prasad	Comps TE	Yes	<i>R Prasad</i>
2	Reuben	Comps TE	Yes	<i>R Reuben</i>
3	Sourav Mudalir	IT TE	No	<i>S Sourav</i>
4	Soham	Comps TE	Yes	<i>S Soham</i>
5	Rahul Pudurkar	Comps TE	Yes	<i>R Pudurkar</i>
6	Vaibhav Mishra	Comps TE	NO	<i>V Vaibhav</i>
7	Ishmeet Kaur	IT TE	No	<i>I Ishmeet</i>
8	Mushira Shaikh	IT TE	NO	<i>M Mushira</i>
9	Dipesh Gandhi	Mech SE	NO	<i>D Dipesh</i>
10	Sanskar Dhakulkar	Mech A SE	NO	<i>S Dhakulkar</i>
11	Prajna Nayak	Comps SE	NO	<i>P Prajna</i>
12	Purva Dharmadhikari	IT SE	NO	<i>P Purva</i>
13	Sayali Kadam	Comps TE	Yes	<i>S Sayali</i>
14	Pranav Pawar	Comps TE	No	<i>P Pawar</i>
15	Roshan Chaudhary	Mech SE	NO	<i>R Chaudhary</i>
16	Samruddhi Dhonde	Mech SE	NO	<i>S Dhonde</i>
17	Kevin Dias	Mech SE	NO	<i>K Dias</i>
18	Arjun Chavan	Comps TE	YES	<i>A Arjun</i>
19	Taaha Kazi	Comps TE	NO	<i>T Taaha</i>
20	Nikita D'souza	Comps TE	NO	<i>N Nikita</i>
21	Ankit Patel	Comps BE	Yes	<i>A Ankit</i>
22	Siddharth L	Mech SE	<del>Yes</del> NO	<i>S Siddharth</i>
23	Fiyusn Sonar	Comps SE	NO	<i>F Fiyusn</i>
24	Priya Singh	IT TE	NO	<i>P Priya</i>
25	Shreya Ghute	IT TE	NO	<i>S Shreya</i>
26	Shawn Louis	Comps SE	YES	<i>S Shawn</i>
27	Joshua Joffy	Mech SE	Yes	<i>J Joshua</i>
28	Hansel Lewis	Mech SE		
29	Adrian Lopes	Mech SE		
30	Manmeet Singh Khanna	Comps TE	NO	<i>M Manmeet</i>
31	Tashn Kotwaj	EXTC TE	NO	<i>T Tashn</i>



Day 2 5 pm - 6:30pm

DATE - 25/09/19

Sr. No.	Name	Branch/Year	ACM/Non ACM Member	Sign
1	Rebecca Prasad	Comps TE	Yes	<u>Rebecca</u>
2	Reuben	Comps TE	Yes	<u>Reuben</u>
3	Sourav Mudalir	IT TE	Yes No	<u>Sourav</u>
4	Soham	Comps TE	No Yes	<u>Soham</u>
5	Rahul Pudurkar	Comps TE	Yes	<u>Rahul</u>
6	Vaibhav Mishra	Comps TE	Yes No	<u>Vaibhav</u>
7	Ishmeet Kaur	IT TE	No	<u>Ishmeet</u>
8	Mushira Shaikh	IT TE	No	
9	Dipesh Gandhi	Mech SE	No	<u>Dipesh</u>
10	Sanskar Dhakulkar	Mech A SE	No	
11	Prajna Nayak	Comps SE	No	<u>Prajna</u>
12	Purva Dharmadhikari	IT SE	No	<u>Purva</u>
13	Sayali Kadam	Comps TE	Yes	<u>Sayali</u>
14	Pranav Pawar	Comps TE	No	<u>Pranav</u>
15	Roshan Chaudhary	Mech SE	No	<u>Roshan</u>
16	Samruddhi Dhonde	Mech SE	No	<u>Samruddhi</u>
17	Kevin Dias	Mech SE	No	<u>Kevin</u>
18	Arjun Chavan	Comps TE	Yes	<u>Arjun</u>
19	Taaha Kazi	Comps TE	No	<u>Taaha</u>
20	Nikita D'souza	Comps TE	No	<u>Nikita</u>
21	Ankit Patel	Comps BE	Yes	<u>Ankit</u>
22	Siddharth L	Mech SE	No	<u>Siddharth</u>
23	Piyush Sonar	Comps SE	No	<u>Piyush</u>
24	Priya Singh	IT TE	No	<u>Priya</u>
25	Shreya Ghute	IT TE	No	<u>Shreya</u>
26	Shawn Louis	Comps SE	Yes	<u>Shawn</u>
27	Joshua Joffy	Mech SE	Yes	<u>Joshua</u>
28	Hansei Lewis	Mech SE		
29	Adrian Lopes	Mech SE		
30	Manmeet Singh Khanna	Comps TE	No	<u>Manmeet</u>
31	Jshna Kotwal	EXTC TE	No	<u>Jshna</u>



Day 3 - 5 pm - 6:30 pm

DATE - 26/09/19

Sr. No.	Name	Branch/Year	ACM/Non ACM Member	Sign
1	Rebecca Prasad	Comps TE	Yes	<u>Rebecca</u>
2	Reuben	Comps TE	Yes	<u>Reuben</u>
3	Sourav Mudalir	IT TE	No	<u>Sourav</u>
4	Soham	Comps TE	Yes	<u>Soham</u>
5	Rahul Pudurkar	Comps TE	Yes	<u>Rahul</u>
6	Vaibhav Mishra	Comps TE	No	<u>Vaibhav</u>
7	Ishmeet Kaur	IT TE	No	<u>Ishmeet</u>
8	Mushira Shaikh	IT TE	No	<u>Mushira</u>
9	Dipesh Gandhi	Mech SE	No	<u>Dipesh</u>
10	Sanskar Dhakulkar	Mech A SE	No	
11	Prajna Nayak	Comps SE	No	<u>Prajna</u>
12	Purva Dharmadhikari	IT SE	No	<u>Purva</u>
13	Sayali Kadam	Comps TE	Yes	<u>Sayali</u>
14	Pranav Pawar	Comps TE	No	<u>Pranav</u>
15	Roshan Chaudhary	Mech SE	No	<u>Roshan</u>
16	Samruddhi Dhonde	Mech SE	No	<u>SP</u>
17	Kevin Dias	Mech SE	No	<u>Kevin</u>
18	Arjun Chavan	Comps TE	Yes	<u>Arjun</u>
19	Taaha Kazi	Comps TE	No	<u>Taaha</u>
20	Nikita D'souza	Comps TE	No	<u>Nikita</u>
21	Ankit Patel	Comps BE	Yes	<u>Ankit</u>
22	Siddharth L	Mech SE	No	<u>Siddharth</u>
23	Piyush Sonar	Comps SE	No	<u>Piyush</u>
24	Priya Singh	IT TE	No	<u>Priya</u>
25	Shreya Ghute	IT TE	No	<u>Shreya</u>
26	Shawn Louis	Comps SE	Yes	<u>Shawn</u>
27	Joshua Joffy	Mech SE	Yes	<u>Joshua</u>
28	Hansei Lewis	Mech SE		
29	Adrian Lopes	Mech SE		
30	Manmeet Singh Khanna	Comps TE	No	<u>Manmeet</u>
31	Jashn Kotwal	Ente TE	No	<u>Jashn</u>

Day 4 - 5 to 7 pm

Date - 27/09/2019

Sr. No.	Name	Branch/Year	ACM/Non ACM Member	Sign
1	Rebecca Prasad	Comps TE	Yes	Prasa
2	Reuben	Comps TE	Yes	Prasa
3	Sourav Mudalir	IT TE	No	Sourav
4	Soham	Comps TE	Yes	ghindess
5	Rahul Pudurkar	Comps TE	Yes	Prasa
6	Vaibhav Mishra	Comps TE	No	Vaibhav
7	Ishmeet Kaur	IT TE	No	Ishmeet
8	Mushira Shaikh	IT TE	No	Mushira
9	Dipesh Gandhi	Mech SE	No	Dipesh
10	Sanskar Dhakulkar	Mech A SE	No	Dhakulkar
11	Prajna Nayak	Comps SE	No	Prajna
12	Purva Dharmadhikari	IT SE	No	Purva
13	Sayali Kadam	Comps TE	Yes	Sayali
14	Pranav Pawar	Comps TE	No	Pranav
15	Roshan Chaudhary	Mech SE	No	Roshan
16	Samruddhi Dhonde	Mech SE	No	SR.
17	Kevin Dias	Mech SE	No	Kevin
18	Arjun Chavan	Comps TE	Yes	Arjun
19	Taaha Kazi	Comps TE	No	Taaha
20	Nikita D'souza	Comps TE	No	Nikita
21	Ankit Patel	Comps BE	Yes	Ankit
22	Siddharth L	Mech SE	No	Siddharth
23	Piyush Sonar	Comps SE	No	Piyush
24	Priya Singh	IT TE		
25	Shreya Ghute	IT TE		
26	Shawn Louis	Comps SE	Yes	Shawn
27	Joshua Joffy	Mech SE	No	Joffy
28	Hansel Lewis	Mech SE		
29	Adrian Lopes	Mech SE		
30	Manmeet Singh Khanna	Comps TE	No	Manmeet
31	Jashn Kotwal	Extc TE	No	Jashn