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1. Introduction

Developer Students Club is a community-based organization for students interested in developer technologies. Here, students grow their knowledge in a peer-to-peer learning environment and build solutions for local businesses and their community.

1.1 Aims and Objectives

The club aims to

- Collaborate and become a chapter of Google Developer Student Club and till then this club will follow all the functions and aims of Google Developer Student Club.
- Conduct various tech talks, hackathons, seminars/workshops and competitions and to identify local organizations and businesses who would benefit from technology-based solutions and facilitate project-based problem-solving activities for club members.

2. Our Teams

Quintet

Lead - Vaibhav Lakhani

Jt. Lead - Prince Gada

Chieftain - Aziz Bohra

Secretary - Zil Jani

Chancellor - Jai Shah

Administration

Public Relations Admin

Sakshi Agrawal

Hiral Shah

TechOrg Admin

Devansh Bagaria

Dhruv Parikh

Corporate Admin

Jay Parikh

Mazhar Khokhawala

Production Admin

Pooja Raval

Paras Kori

Public Relations

Public Relations Head

Delzeen Machhi

Public Relations Team

Aayushi Mehta

Drishti Jobanputra

Shruti Shinde

Shruti Singh

Rithik Tiwari

Shriyans Naik

Vinit Jogi

Ruchita Jinturkar

Ronit Bhamere

Corporate

Finance Head

Dhir Parmar

Finance Team

Akanksha Pandey

Deep Zaveri

Hitakshi Tanna

Kashmira Sonar

Mitali Ved

Sanket Bafna

Vishal Vijayan Bair

Gauri Sakpal

Bhavit Shah

Ravi Gala

Marketing Head

Jenil Kanani

Marketing Team

Hitesh Prajapati

Jay Munjapara

Jyotika Singh

Krishna Chhadwa

Rushin Gala

Sanket Ashar

Nidhi Patel

Yash Bhavsar

Ashwathy Pillai

TechOrg

Technical Head

Utkarsha Mokashi

Technical Team

Ajinkya Talajiya
Dhruv Prajapati
Gaurav Tuklia
Harsh Koli
Jayant Kumar
Mayuresh Nivatkar
Nimish Patil
Peetamber Pancharia
Ritika Keni
Sridhar Menon
Vatsal Haria
Yogesh Barude

Organising Head

Burhanuddin Udaipurwala

Organising Team

Jash Vaja
Jaykumar Wadia
Kushal Savla
Omkar Singh Chauhan
Parth Bhambure
Pradeep Patel
Prathamesh Khochade
Radhey Borse
Rohit Paradkar
Sarvesh Soni
Siddhesh Dandavatimath
Varad Sawant
Vedant Mishra
Yash Panchal

Production

Creative Head

Isha Patel

Creative Team

Harsh Sawant
Ishani Singh
Kanika Singh
Nidhi Dama
Nishita Thakar
Omkar Karreppa
Ebrahim M Ghantiwala
Patel Shrey
Panchal Keyur
Parmar Akshar

Social Media Head

Parikshit Shashtri

Social Media Team

Basit Ansari
Radhika Kolhekar
Sneha Nandu
Yash Mashru
Rhythm Bhatt
Prachiti Gholap



3. Events

3.1 Frontend Web Development

Report of Developer Students Club organized Hands-on Sessions on “Frontend Web Development” from January-March, 2020.

The Developer Students Club of K.J Somaiya Institute of Engineering and Information Technology (KJSIEIT) organized a Hands-on Session on “Frontend Web Development” from **January, 2020 to March, 2020** from 04:40PM – 05:30PM. The sessions had been organized to make students aware of concepts about Frontend Web Development and to develop their coding skills. The resource person for the same was Prince Gada, TE Comps, Jt. Lead – Developer Students Club.

No of participants/beneficiaries: The session witnessed 100 active participants.

Objectives:

- ✓ To learn technologies which are being used in industry for web development.

Key Points:

- Introduction to different parts and features of a website.
- Introduction to HTML and its concepts.
- Introduction to CSS and its concepts.
- Introduction to Bootstrap and its concepts.
- How to build a website.

Outcomes:

- Students understood the usage of technologies in web development.
- Students understood how to design and code the frontend of website.

There was a question-and-answer session followed by a ‘thank you’ note by Prince Gada.

Web Development Sessions:





3.2 Seminar on Profile Building

Report of Developer Students Club Organized Seminar on Profile Building

The Developer Students Club of K J Somaiya Institute of Engineering and Information Technology (KJSIEIT) organized a Seminar on “**Profile Building**” in **March, 2020** via Online Mode of MS Team. The crash course was organized to train students in the world of making mobile applications. The resource person for the same was Prince Gada, TE Comps, Jt. Lead- Developer Students Club.

No of participants/beneficiaries: The seminar witnessed 70 participants.

Objectives:

- ✓ To learn building profile on LinkedIn and various other platforms which are being used by various industries to hire.

Key Points:

- Updating our experience section.
- Upgrading certificates and licenses with new learnt skills.
- Tagging accounts and using proper hashtags while posting certificates.

Outcomes:

- Students understood how to keep LinkedIn profile updated.
- Students understood how to build a strong LinkedIn profile.

There was a question-and-answer session followed by a ‘thank you’ note by Prince Gada.

Profile Building Session:



3.3 Workshop on Flutter

Report of Developer Students Club Organized Workshop on Flutter

The Developer Students Club of K J Somaiya Institute of Engineering and Information Technology (KJSIEIT) organized a Crash Course on “**Flutter and Dart Technology**” on **20 May, 2020** via Online Mode of MS Team. The crash course was organized to train students in the world of making mobile applications. The resource person for the same was Vaibhav Lakhani, TE Comps, Lead-Developer Students Club.

No of participants/beneficiaries: The crash course witnessed 20 participants.

Objectives:

- ✓ To learn Flutter and Dart which are being used in industry for mobile application development.
- ✓ To learn Firebase which are being used in industry for database management as well as cloud authentication system.

Key Points:

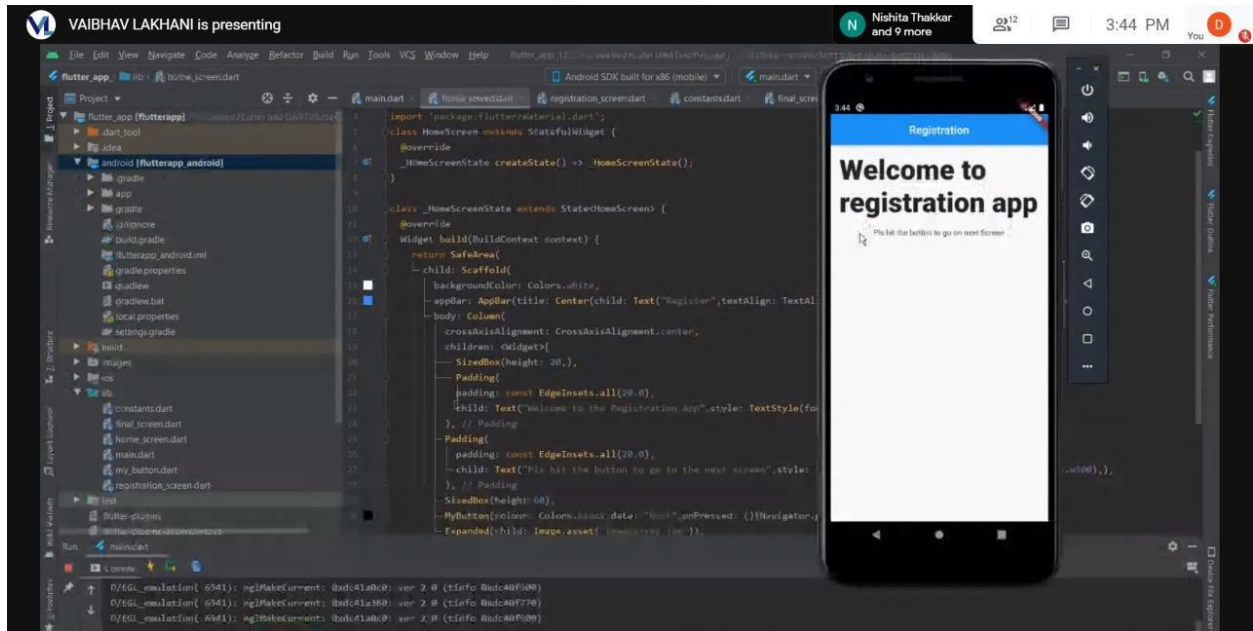
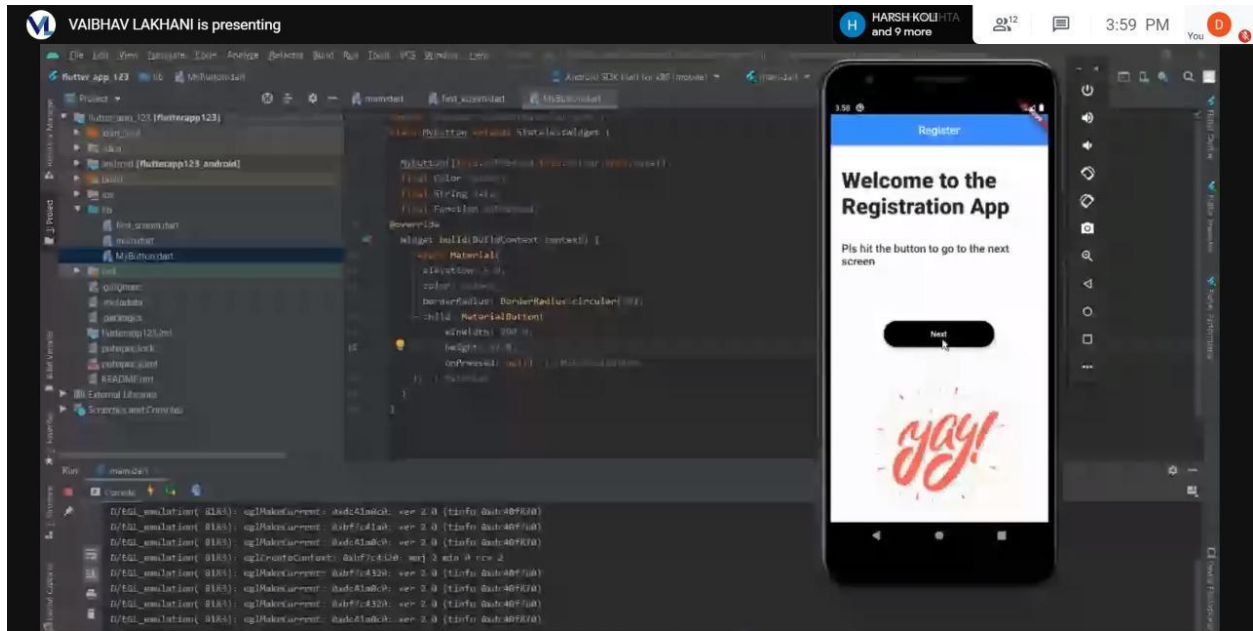
- Importance of Flutter, Dart and Firebase.
- How to install Flutter, Dart in your PC and setting up the same.
- How to build a modern mobile application using Flutter and Dart.
- How to connect the application to a Firebase, a database on the cloud.
- How to authenticate your mobile application with Firebase’s online authentication system
- How to authenticate using Google and Facebook.
- Creating apk and ipa of your mobile application.

Outcomes:

- Students understood the usage of Flutter, Dart and Firebase in modern mobile application development.
- Students understood how to build and publish professional mobile applications.

There was a question-and-answer session followed by a ‘thank you’ note by Vaibhav Lakhani.

Flutter Sessions:



3.4 Workshop on PHP

Report of Developer Students Club Organized Workshop on PHP

The Developer Students Club of K J Somaiya Institute of Engineering and Information Technology (KJSIEIT) had organized a workshop on “PHP” in **May 2020** via Online Mode of GMeet. The main aim of this workshop was to teach programming using PHP and introduce how PHP is used in Web Development. The resource person for the same was Prince Gada, TE Comps, Jt. Lead- Developer Students Club.

No of participants/beneficiaries: The crash course witnessed 16 participants.

Objectives:

- ✓ To learn programming using PHP
- ✓ To learn about the use of PHP in Web Development.

Key Points:

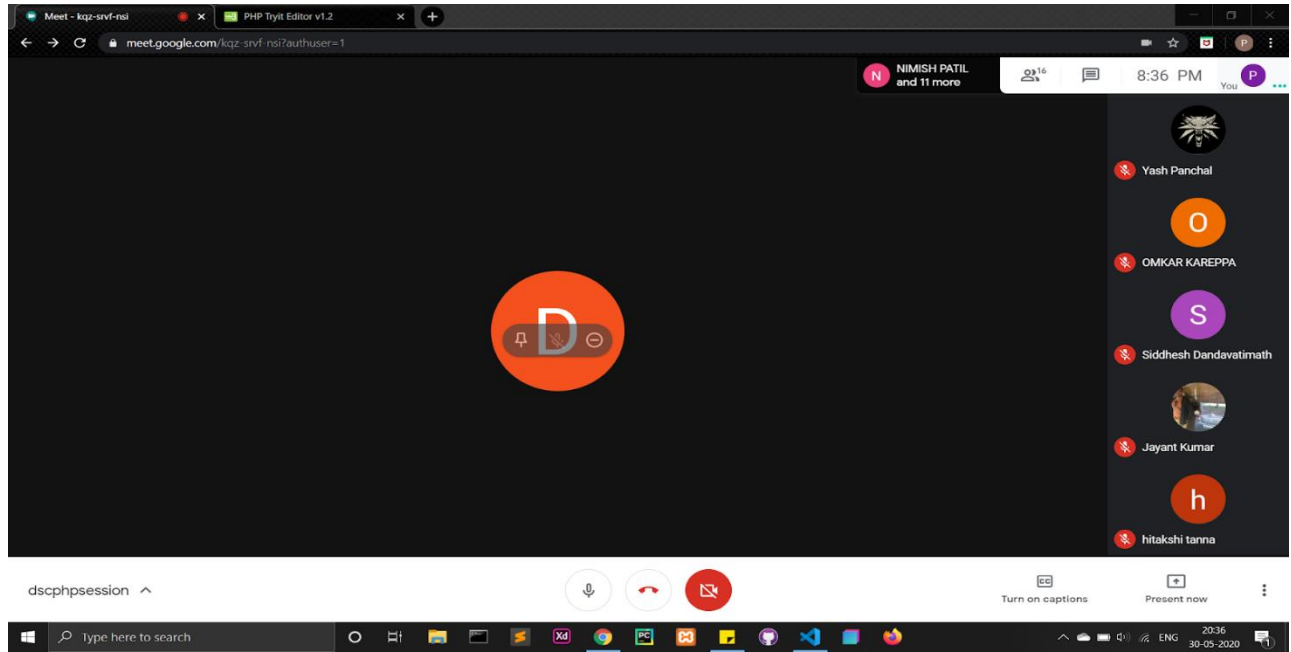
- Introduction to PHP programming language.
- Object oriented programming using PHP.
- Connection of PHP with a Database.
- How to use PHP in Web Development.

Outcomes:

- Students understood about the use of PHP in Web Development
- Students understood how program using PHP.

There was a question-and-answer session followed by a ‘thank you’ note by Prince Gada.

PHP Session:





3.5 Workshop on SQL

Report of Developer Students Club Organized Crash Course on SQL

The Developer Students Club of K J Somaiya Institute of Engineering and Information Technology (KJSIEIT) organized a Crash Course on “SQL” on **24 May, 2020** via Online Mode of GMeet. The crash course was organized to train students about different types of database and work with them. The resource person for the same was Vaibhav Lakhani, TE Comps, Lead- Developer Students Club.

No of participants/beneficiaries: The crash course witnessed 16 participants.

Objectives:

- ✓ To learn about database management system for storing data for mobile and web applications.
- ✓ To learn about SQL and NoSQL.
- ✓ To learn how to create database on MySQL.

Key Points:

- Importance of Database Management.
- Different types of databases.
- Difference between SQL and NoSQL.
- Setting up the computer for running MySQL.
- Introduction to MySQL.
- Basic queries used in SQL and how to execute them.
- Cheat Sheet for Advanced SQL Queries

Outcomes:

- Students understood the importance of database and difference between SQL and NoSQL
- Students understood how to set up SQL in computer.
- Students understood how to execute basic SQL Queries.

There was a question-and-answer session followed by a ‘thank you’ note by Vaibhav Lakhani.

SQL Session:

The screenshot shows a Google Meet interface. At the top, the browser address bar displays `https://meet.google.com/rts-opki-qct`. The main window shows a presentation slide with the text "You're presenting" and a "Stop presenting" button. On the right side, there is a chat window with several messages:

- AAYUSHI MEHTA: yes
- PARTH BHAMBURE: Clear
- Utkarsha Mokashi: Yes
- Nishita Thakkar: Clear

At the bottom of the screen, there are control icons for mute, video, and chat, along with the text "Turn on captions" and "VAIBHAV LAKHANI is presenting".



3.6 Workshop on UI Design

Report of Developer Students Club Organized Crash Course on UI Design

The Developer Students Club of K J Somaiya Institute of Engineering and Information Technology (KJSIEIT) organized a Crash Course on “**UI Design**” in **June, 2020** via Online Mode on GMeet. The crash course was organized to train students in the world of making UI Designs for websites and mobile applications. The resource person for the same was Prince Gada, TE Comps, Jt. Lead-Developer Students Club.

No of participants/beneficiaries: The crash course witnessed 39 active participants.

Objectives:

- ✓ To learn Adobe XD which is being used in industry for designing the wireframes for websites, mobile application and many more.
- ✓ To understand and learn the concepts of User Interface (UI) and User Experience (UX) Design.
- ✓ To learn how to make working prototypes of the Website / Mobile Application.

Key Points:

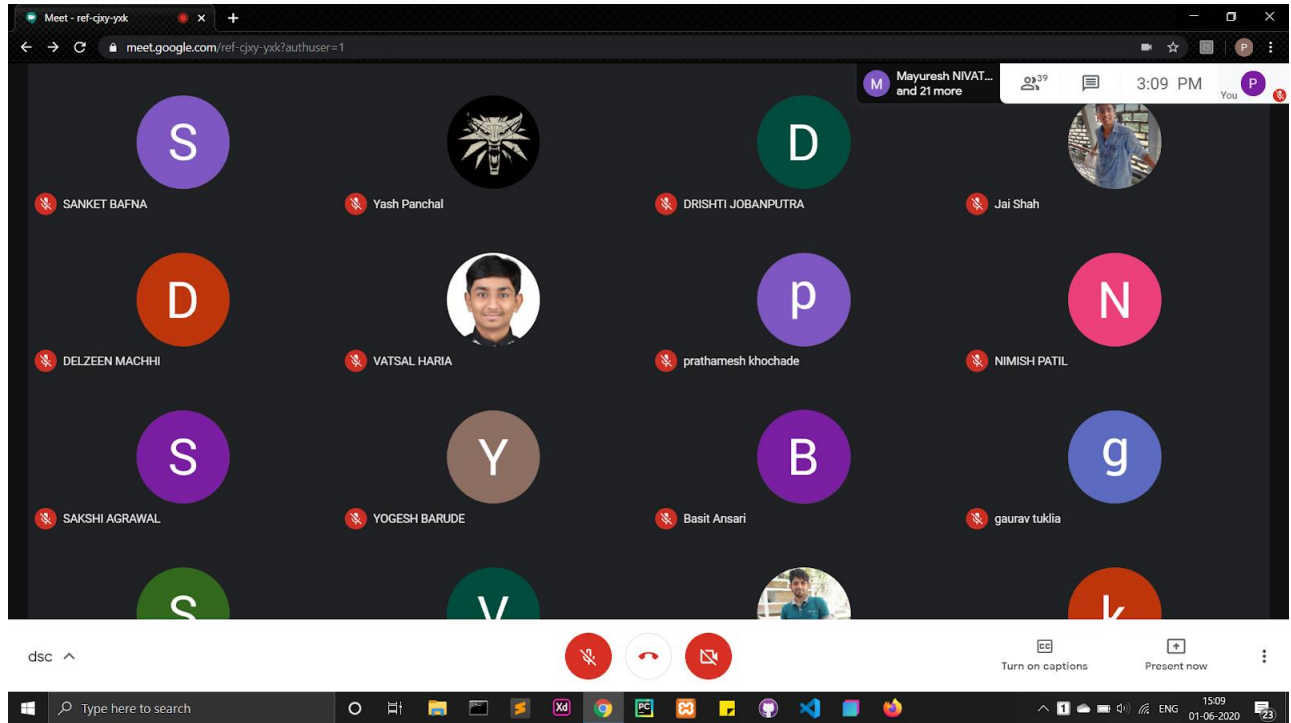
- Importance of Adobe XD in the Design Industry.
- Installing Adobe XD in your PC and setting up the same.
- Building wireframes and designing UI/UX using Adobe XD.

Outcomes:

- Students understood the usage of Adobe XD in UI designing.
- Students were able to create and design the User Interface for websites and mobile applications from scratch.
- Students were able to create working prototypes of websites / mobile application.

There was a doubt solving and question-and-answer session followed by a ‘thank you’ note by Prince Gada.

UI Designing Session:



3.7 Internships

Report of Developer Students Club organized Internships⁴

The Developer Students Club of K J Somaiya Institute of Engineering and Information Technology (KJSIEIT) conducted **Internships** starting from **June 2020 to August 2020**. The internship was conducted to train students in the world of making web pages and mobile applications. The resource person for web development was Prince Gada, TE Comps, Jt. Lead - Developer Students Club and that for application development was Vaibhav Lakhani, TE Comps, Lead - Developer Students Club.

No of participants/beneficiaries: The internship program witnessed 66 active participants.

Objectives:

Web Development

- ✓ To learn HTML, CSS, JavaScript which are used for front-end web development.
- ✓ To learn PHP, Laravel and MySQL which are used for backend development.

Application Development

- ✓ To learn Flutter and Dart which are being used in industry for mobile application development.
- ✓ To learn Firebase which are being used in industry for firebase connection, database management as well as cloud authentication systems.

Key Points:

Web Development

- How to create UI/UX design for web pages.
- How to create the front-end of a web page using HTML, CSS and JavaScript.
- How to implement Bootstrap in web pages.
- How to create a database using phpMyAdmin and MySQL.
- How to use Laravel to build web applications.

Application Development

- How to create UI/UX designs for mobile application.
- How to apply Flutter, Dart on your PC and set up the same.
- How to build a modern mobile application using Flutter and Dart.
- How to connect the application to a Firebase, a database on the cloud.
- How to authenticate your mobile application with Firebase's online authentication system.
- Creating an apk and ipa of your mobile application.

Outcomes:

Web Development

- Students understood the usage of HTML, CSS, JavaScript in web pages.
- Students understood how to use Laravel, phpMyAdmin and MySQL for web pages.

Application Development

- Students understood the usage of Flutter, Dart and Firebase in modern mobile application development.
- Students understood how to build and publish professional mobile applications.



3.8 Workshop on C Programming Language

Report of Developer Students Club organized Workshop on C Programming Language

The Developer Students Club of K J Somaiya Institute of Engineering and Information Technology (KJSIEIT) organized a Crash Course on “**C Programming Language**” from **4th to 8th August, 2020** via Online Mode of Google Meet. The crash course was organized to train students with basic programming concepts and learning the C Programming language. The resource person for the same was Jai Shah, SE Comps, Chancellor- Developer Students Club.

No of participants/beneficiaries: The crash course witnessed 25 active participants.

Objectives:

- ✓ To learn basic concepts of programming languages and introduction to C Programming language.
- ✓ To learn how to solve real world problems using logic and develop programming skills for the same.

Key Points:

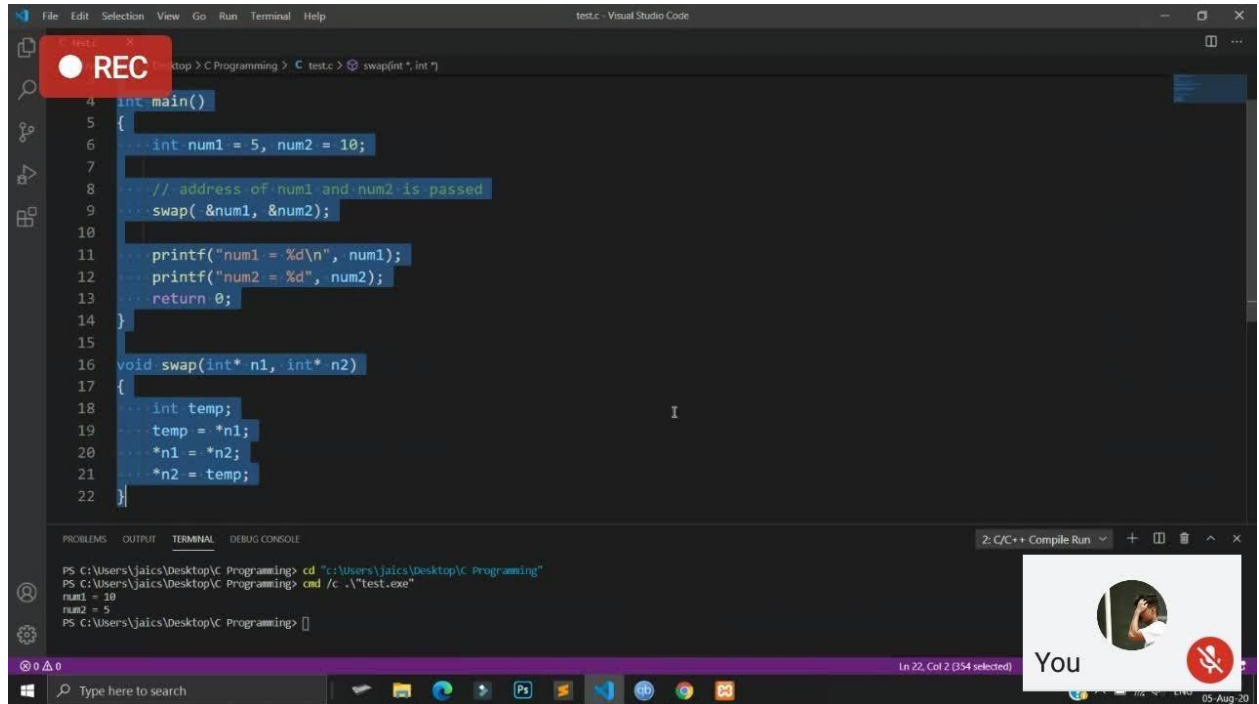
- Importance of C Programming language.
- How to run C programs on your system.
- How to write programs using basic data structures and control structures available in C.
- How to use functions, arrays, pointers in programs.
- How to use strings and function pointers.
- How to use user defined data types like structures and unions.
- How to use memory management in C.
- How to handle external files in C.

Outcomes:

- Students understood the usage of C Programming language and how to solve complex problems in programming.
- Students understood how learning this basic language can help learn any other computer language easily going forward.

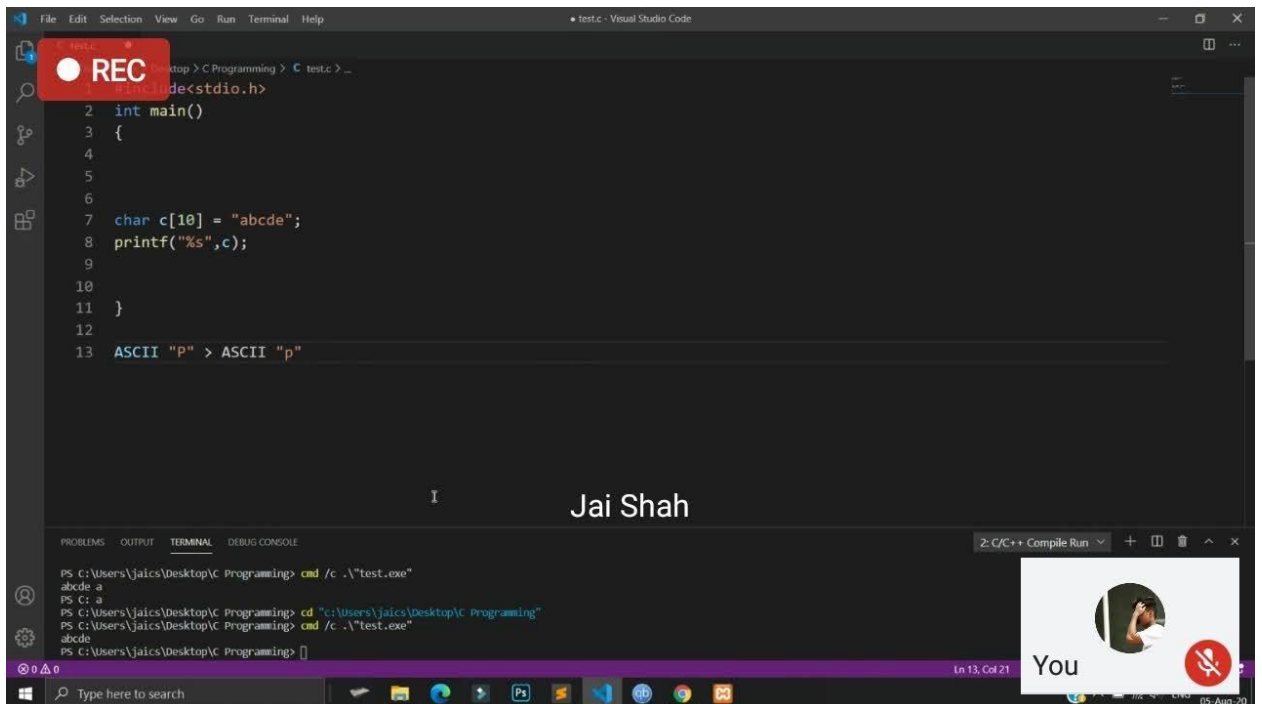
There was a question-and-answer session followed by a ‘thank you’ note by Jai Shah.

C Programming Session:



```
4 int main()
5 {
6     int num1 = 5, num2 = 10;
7
8     // address of num1 and num2 is passed
9     swap( &num1, &num2);
10
11     printf("num1 = %d\n", num1);
12     printf("num2 = %d", num2);
13     return 0;
14 }
15
16 void swap(int* n1, int* n2)
17 {
18     int temp;
19     temp = *n1;
20     *n1 = *n2;
21     *n2 = temp;
22 }
```

PS C:\Users\jaics\Desktop\C Programming> cd "C:\Users\jaics\Desktop\C Programming"
PS C:\Users\jaics\Desktop\C Programming> cmd /c .\test.exe
num1 = 10
num2 = 5
PS C:\Users\jaics\Desktop\C Programming>



```
2 int main()
3 {
4
5
6
7     char c[10] = "abcde";
8     printf("%s",c);
9
10 }
11
12
13 ASCII "p" > ASCII "p"
```

PS C:\Users\jaics\Desktop\C Programming> cmd /c .\test.exe
abcde a
PS C:\Users\jaics\Desktop\C Programming> cd "C:\Users\jaics\Desktop\C Programming"
PS C:\Users\jaics\Desktop\C Programming> cmd /c .\test.exe
abcde
PS C:\Users\jaics\Desktop\C Programming>



3.9 Workshop on Python

Report of Developer Students Club Organized Crash Course on Python

The Developer Students Club of K J Somaiya Institute of Engineering and Information Technology (KJSIEIT) organized a Crash Course on "Python" on 10th August, 2020 via Online Mode of MS Team. The crash course was organized to train students for processing the logic behind user inputs, interacting with databases and other servers. The resource person for the same was Aziz Bohra, TE Comps, Chieftain - Developer Students Club.

No of participants/beneficiaries: The crash course witnessed 65 active participants.

Objectives:

- ✓ To learn the basic knowledge of Python which is being used for analyzing, comparing and visualizing data.
- ✓ To learn the Object-oriented approach of Python.

Key Points:

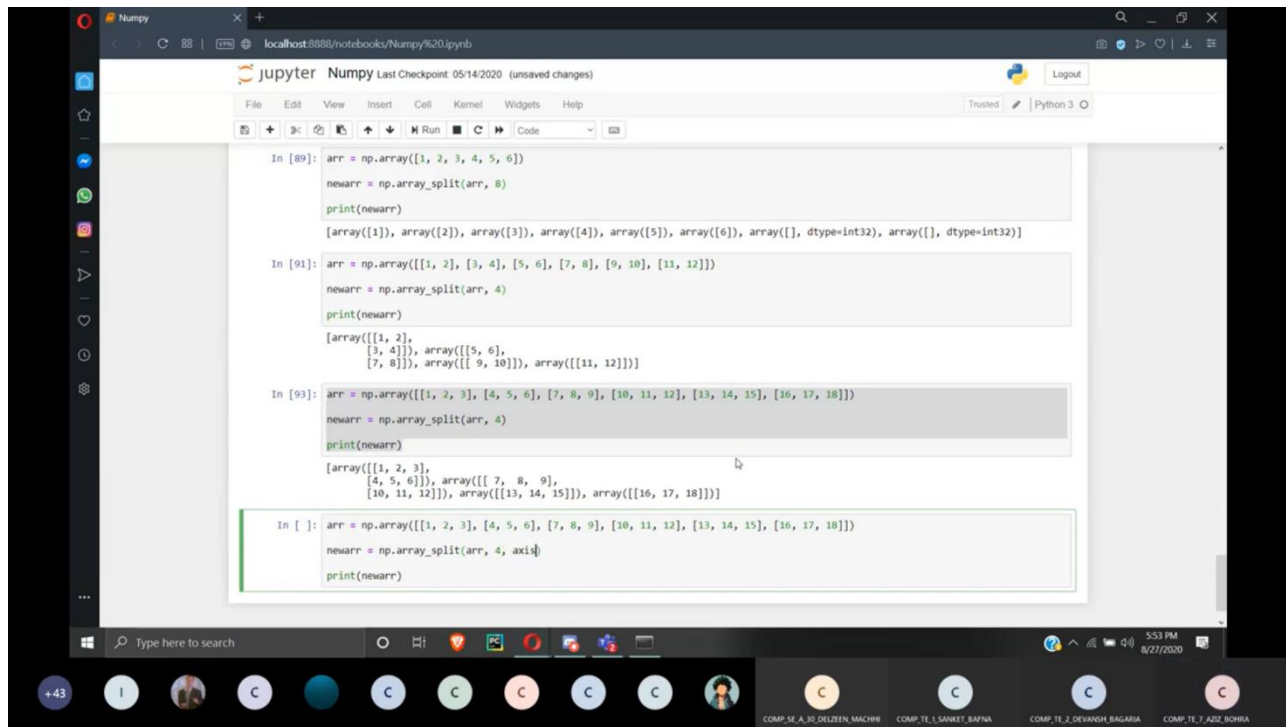
- Different data types in Python.
- Basic operators and operations including String operations.
- Basic concepts like List, Tuple, Dictionary, Sets, and Arrays.
- Looping concepts including If-Else statement.
- Functions and Lambda Function.
- Concepts of classes and objects in OOP.
- OOP concepts of Inheritance, Encapsulation, and Polymorphism (Method Overloading).

Outcomes:

- Students understood the usage of basic programming language – Python.
- Students understood how to use Python for OOP.

There was a question-and-answer session followed by a 'thank you' note by Aziz Bohra.

Python Programming Session:



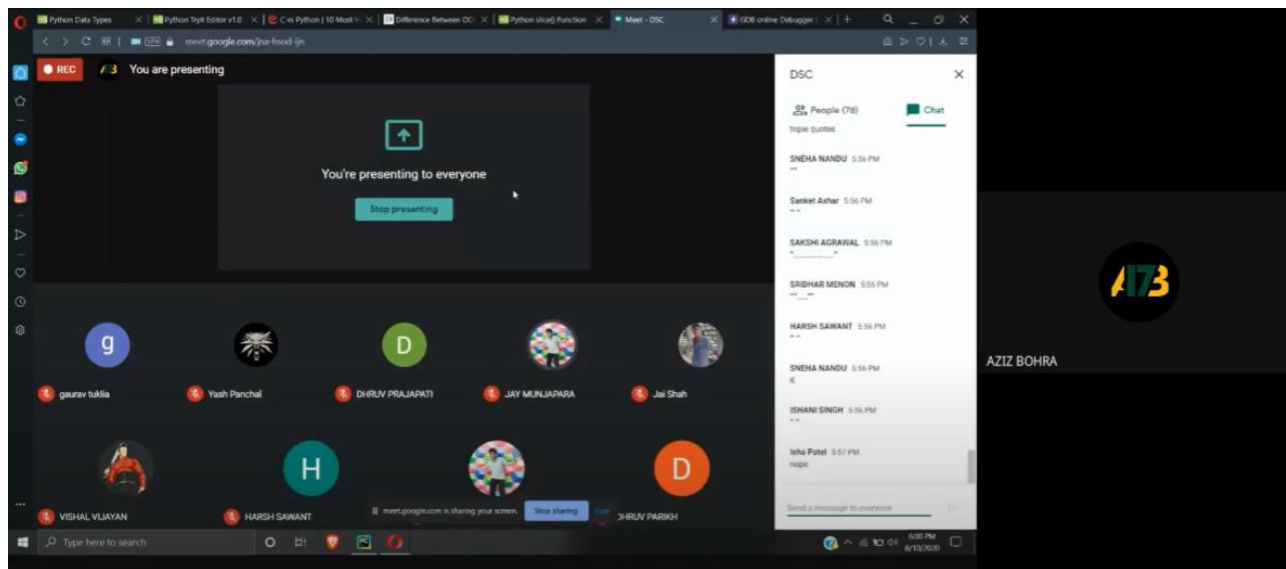
The screenshot shows a Jupyter Notebook interface with four code cells demonstrating NumPy's `array_split` function. The first cell splits a 1D array of 6 elements into 8 equal parts, resulting in 7 non-empty arrays and 1 empty array. The second cell splits a 1D array of 12 elements into 4 equal parts. The third cell splits a 1D array of 18 elements into 4 equal parts. The fourth cell splits a 1D array of 18 elements into 4 equal parts along the x-axis.

```
In [89]: arr = np.array([1, 2, 3, 4, 5, 6])
newarr = np.array_split(arr, 8)
print(newarr)
[array([1]), array([2]), array([3]), array([4]), array([5]), array([6]), array([], dtype=int32), array([], dtype=int32)]

In [91]: arr = np.array([[1, 2], [3, 4], [5, 6], [7, 8], [9, 10], [11, 12]])
newarr = np.array_split(arr, 4)
print(newarr)
[array([[1, 2],
       [3, 4]]), array([[5, 6],
       [7, 8]]), array([[9, 10]]), array([[11, 12]])]

In [93]: arr = np.array([[1, 2, 3], [4, 5, 6], [7, 8, 9], [10, 11, 12], [13, 14, 15], [16, 17, 18]])
newarr = np.array_split(arr, 4)
print(newarr)
[array([[1, 2, 3],
       [4, 5, 6]]), array([[7, 8, 9],
       [10, 11, 12]]), array([[13, 14, 15]]), array([[16, 17, 18]])]

In [ ]: arr = np.array([[1, 2, 3], [4, 5, 6], [7, 8, 9], [10, 11, 12], [13, 14, 15], [16, 17, 18]])
newarr = np.array_split(arr, 4, axis=0)
print(newarr)
```



3.10 Workshop on Cyber Security

Report of Developer Students Club organized Cyber Security Sessions

The Developer Students Club of K J Somaiya Institute of Engineering and Information Technology (KJSIEIT) organized sessions on “**Cyber Security**” from May 2020 to December 2020 (2 days per week) via Online Mode of MS Team. The crash course was organized to train students in the field of cyber security and make them capable of eliminating the risk of cyber threats. The resource person for the same was Mr. Vaibhav Lakhani, TE Comps, Lead- Developer Students Club.

No of participants/beneficiaries: The crash course witnessed 20-25 active participants.

Objectives:

- ✓ To learn about cyber security and career guidance in the field of cyber security.
- ✓ To learn about networking and understand how the internet works.
- ✓ To set up lab for hacking.
- ✓ To learn about basic and advanced Linux commands.
- ✓ To learn about different types of attacks, their cause and the process to eliminate them.
- ✓ To learn about phishing attacks, identify them and eliminate their threat.
- ✓ To learn about system hacking, hacking windows and privilege escalation and the ways to protect it.
- ✓ To learn about android hacking and its countermeasure.

Key Points:

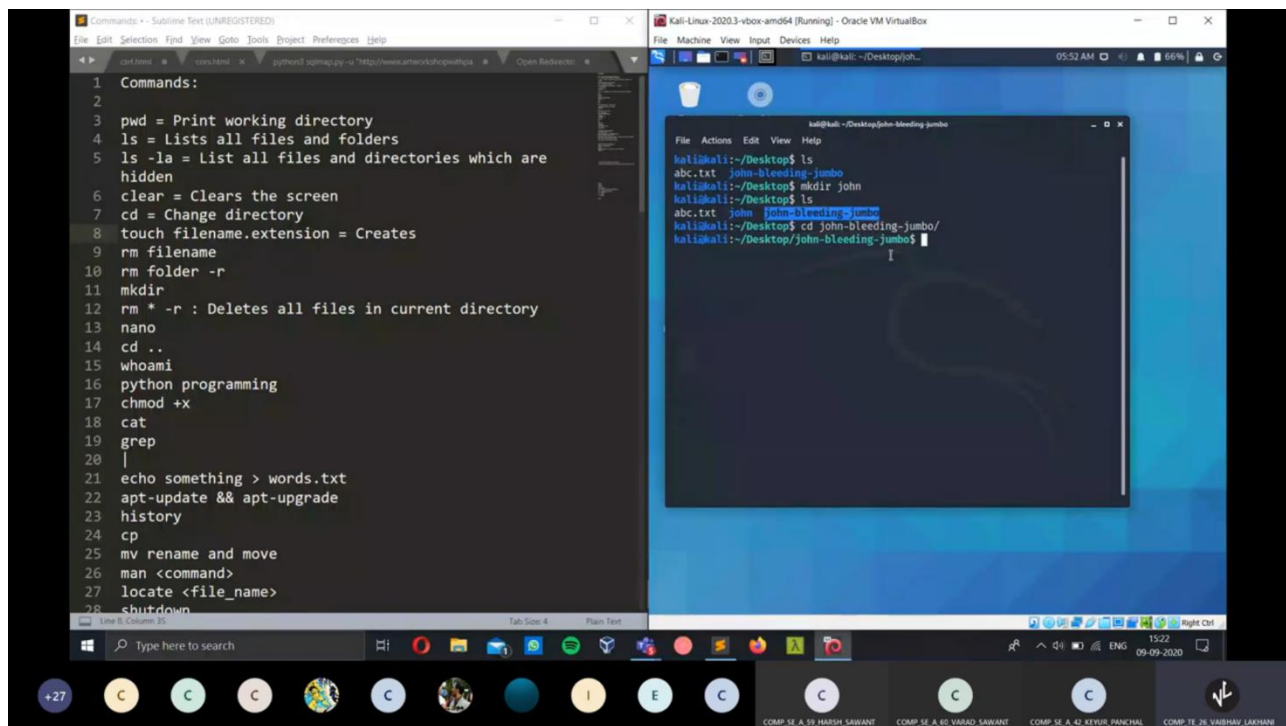
- Introduction to cyber security and different career options in the field of cyber security.
- Networking and how the internet works.
- Setting up Lab for hacking.
- Basic and Advanced Linux Commands
- Different types of network attacks.
- Email Spoofing
- System Hacking (Hacking Windows and Hacking Linux).
- Hacking Android.
- Phishing and its countermeasure.

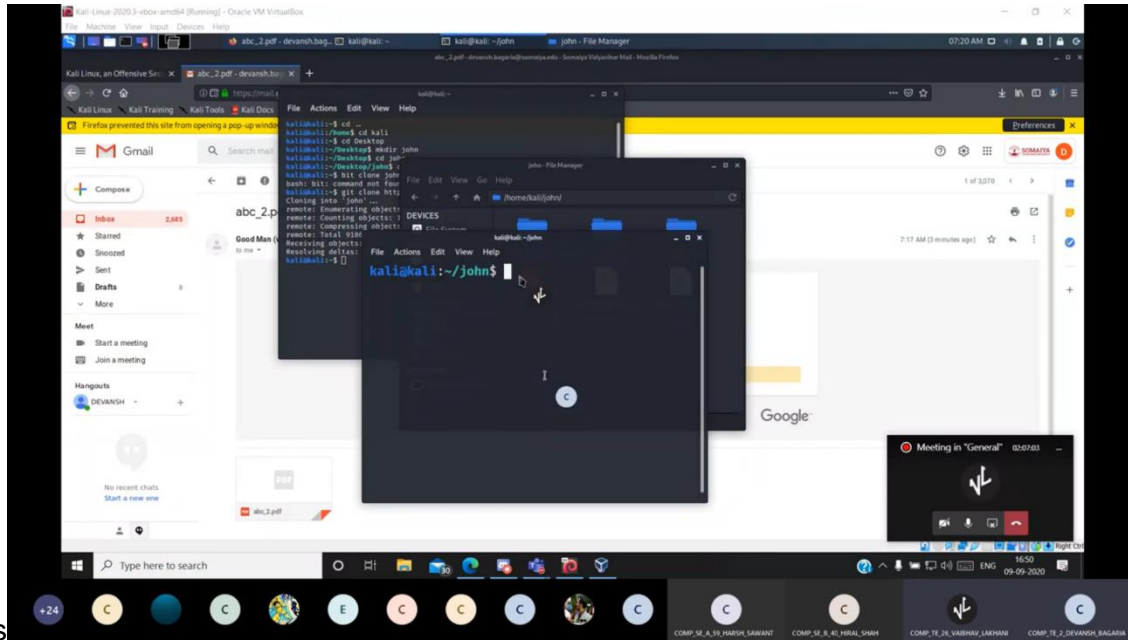
Outcomes:

- Students understood the importance of cyber security and different career options in the field of cyber security.
- Students understood about networking and how the internet works
- Students understood how to set up a hacking environment.
- Students understood basic and advanced Linux commands
- Students understood about different types of network attacks and their remediations.
- Students understood about system hacking and android hacking and protecting the same.
- Students understood about email spoofing and its counter measure.

There was a question-and-answer last session which gave the details of “what-next” in the big world of cyber security and link to different resources followed by a ‘thank you’ note by Vaibhav Lakhani.

Cyber Security Session:





3.11 Workshop on Data Science

Report of Developer Students Club organized Workshop on Data Science

The Developer Students Club of K J Somaiya Institute of Engineering and Information Technology (KJSIEIT) organized a Crash Course on “**Data Science**” on from May 2020 to December 2020 (2 days per week) via Online Mode of MS Team. The crash course was organized to train students for processing the logic behind user inputs, interacting with databases and other servers. The resource person for the same was Aziz Bohra, TE Comps, Chieftain - Developer Students Club.

No of participants/beneficiaries: The crash course witnessed 40 active participants.

Objectives:

- ✓ To learn the overview of Data Science understand the difference between Data Analysis and Data Analytics.
- ✓ To learn the different concepts like Machine Learning(ML), Artificial Intelligence(AI) and Business Intelligence(BI).

Key Points:

- Traditional Methods of Data Science.
- Data pre-processing and Data Masking.
- Overview about Regression and Cluster Analysis.
- Looping concepts including If-Else statement.
- Types of Machine Learning.
- Underfitting and Overfitting of Models.
- Linear Regression
 - Correlation v/s Regression.
 - Linear Regression using Ordinary Least Square(OLS) method.
 - OLS statistical concepts.
 - Linear Regression using Scikit-Learn(sklearn).
 - Multiple Linear Regression using OLS.
 - Multiple Linear Regression using sklearn.
 - Regression Assumptions:
 - Linearity
 - No endogeneity
 - Normality and Homoscedasticity

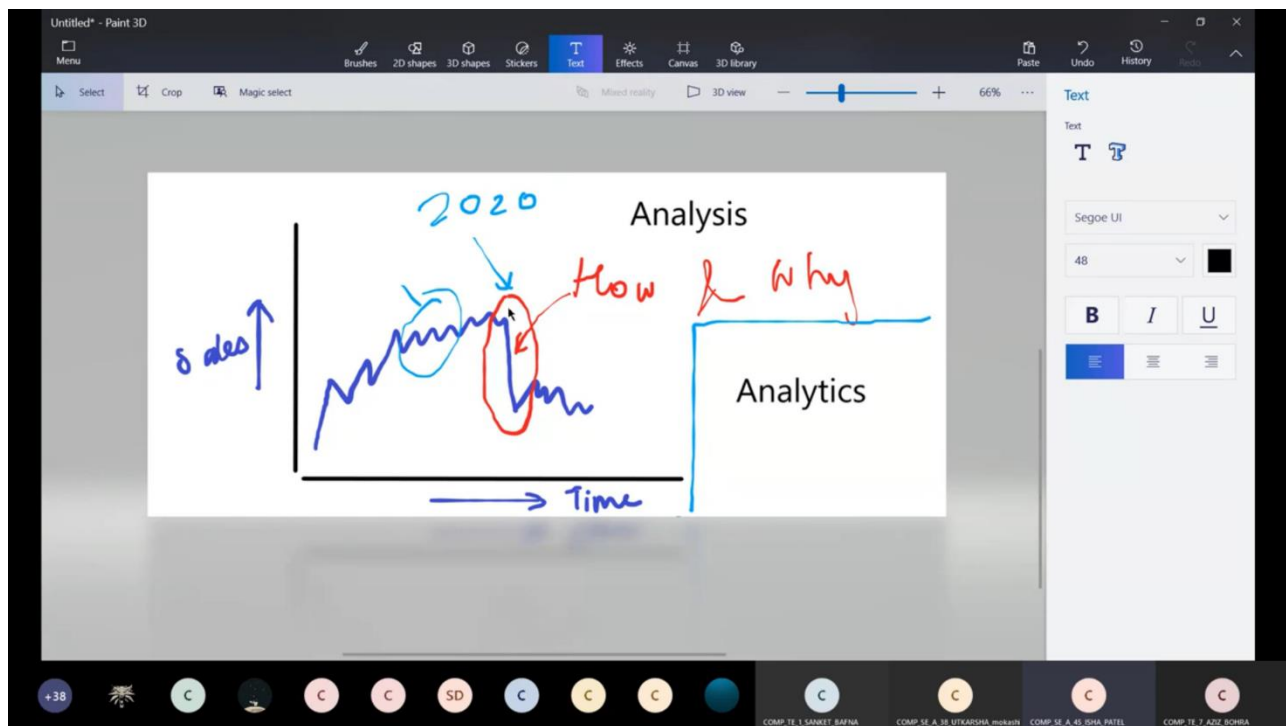
- No auto-correlation
- No multi-collinearity

Outcomes:

- Students understood the details on how to move ahead in the Data Science field and briefed about the resources available for the same.
- The class was motivated to get on Kaggle.com which is the perfect place to learn, brush-up and apply Data Science/ML skills and also compete with the rest of the World.

There was a question-and-answer session followed by a ‘thank you’ note by Aziz Bohra.

Data Science Session:



Untitled* - Paint 3D

Linear Regression

--> There should be a meaningful condition between the data given and the output data

$y^{\wedge} = b_1 * x + b_0 + E$

weight c_1 c_0

DV IV Error Bias

Regression $x \rightarrow y$ $y \rightarrow x$

$P(x,y) \neq P(y,x)$ where $x = AoE$, $y = Income$

$P(x,y) = P(y,x)$ ← Correlation



3.12 Workshop on Advance Web Development

Report of Developer Students Club Organized Workshop on Advanced Web Development

The Developer Students Club of K J Somaiya Institute of Engineering and Information Technology (KJSIEIT) organized a Crash Course on “**Advanced Web Development**” from **18th August, 2020 to 6th November, 2020** via Online Mode of MS Team. The crash course was organized to train students in the world of making and styling webpages. The resource person for the same was Prince Gada, TE Comps, Joint Lead- Developer Students Club.

No of participants/beneficiaries: The crash course witnessed 35 active participants.

Objectives:

- ✓ To learn about Web Storage API's, SVG's and the canvas tag in HTML 5.
- ✓ To learn CSS3: Basics, Pseudo Classes, elements, browser prefixes and shadow properties.

Key Points:

- How to store values in different types of Web Storages.
- How to use the animate, path and the canvas tag.
- How to use pseudo classes and elements.
- How to add box shadows, text shadows and a border radius to an element.
- How to load custom fonts into a webpage.
- How to use CSS Vendor Prefixes.
- How to use the Word Wrap property.
- How to use CSS Gradients and Transitions.

Outcomes:

- Students understood the usage of different Web storages: Local Storage and Sessions storage.
- Student understood how to insert SVG images, draw graphics and create animations in webpages.
- Students understood how to use different CSS properties to customize texts, and different elements like boxes, paragraphs, etc. in a webpage.

There was a question-and-answer session followed by a ‘thank you’ note by Prince Gada.

Summary:

Academic Year	AY 2019-20
Total No. of events conducted	12
No. of Participants	100
Funds provided by college in Rs.	0
Expenditure in Rs.	0
Funds from external sources if any in Rs	0
No. of sponsoring organizations if any (Gifts, Vouchers etc	None

Academic Year 2020-21

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1. Events

1.1 Tech Among Us

Report of Developer Students Club Organized Tech Among Us

The Developer Students Club of K J Somaiya Institute of Engineering and Information Technology (KJSIEIT) organized a fun, technical event “**Tech Among Us**” on **30th January, 2021** on Zoom.

No of participants: The crash course witnessed 35 participants.

Objectives:

- ✓ To develop and sharpen skills of Problem Solving through a fun game Among Us.
- ✓ To enhance the skills of participants by working under time pressure.

Key Points and Rules:

- The game was played in three rounds over Zoom. It was based on the popular game Among Us.
- The Participants were divided into teams of 5 and each team had an imposter and a crewmate. The participants were given many technical tasks, like taska based on coding languages, find the output, logical reasoning questions, etc and they had to solve the tasks correctly, as fast as they can.
- Just like the Original game, if a crewmate completes a task first, then they can call an emergency meeting and they can discuss who to vote out in a limited time allotted for discussion. If the imposter completes a task correctly, they can eliminate a crewmate from the game by “killing” them.
- Once the crewmate is dead, they will be privately informed by the volunteer and the whole group will find out in the next emergency meeting.
- If the imposter is found, the crewmates win, and the alive crewmates advance to the next round, else the imposter advances to the next round.

Winners:

- 1st Place: Ravi Gala (1500 Cash Prize + voucher worth Rs. 1000)
2nd Place: Mitanshu Reshamwala (1000 Cash Prize + voucher worth Rs. 1000)
3rd Place: Sanyam Gandhi (500 Cash Prize + voucher worth Rs. 1000)
4th Place: Manasvi Sabnis (Samsung Earphones)
5th Place: Shriyans Naik (Samsung Earphones)



1.2 Frontend Web Development

Report of Developer Students Club organized Hands-on Sessions on “Frontend Web Development” from January-March, 2020.

The Developer Students Club of K.J Somaiya Institute of Engineering and Information Technology (KJSIEIT) organized a Hands-on Session on “Frontend Web Development” from **March, 2021 to April, 2021**. The sessions had been organized to make students aware of concepts about Frontend Web Development and to develop their coding skills. The resource persons for HTML were Sneha Nandu and Gaurav Tuklia, for CSS were Zil Jani and Sarvesh Soni, all from SE Comps, and for Javascript, Prince Gada, TE Comps.

No of participants/beneficiaries: The session witnessed 30 active participants.

Objectives:

- ✓ To learn technologies which are being used in industry for web development.

Key Points:

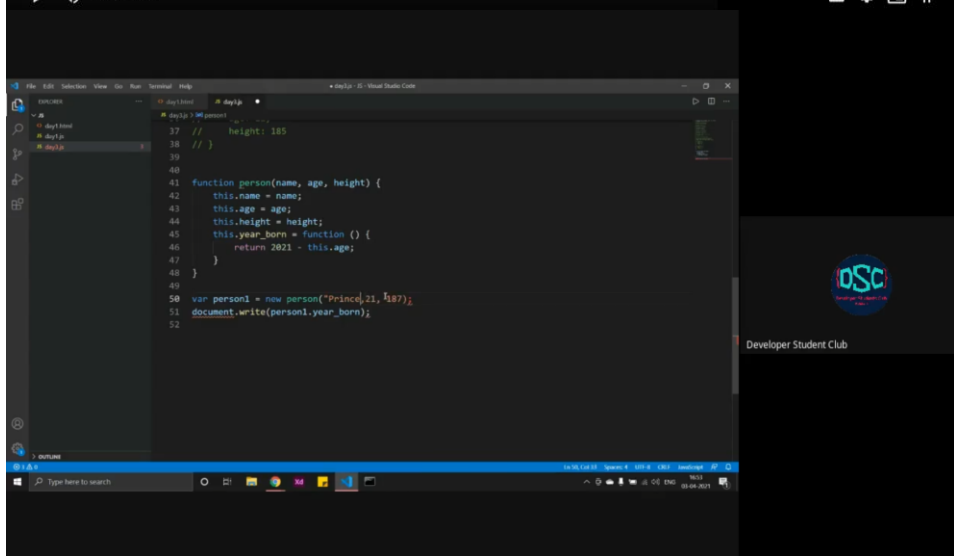
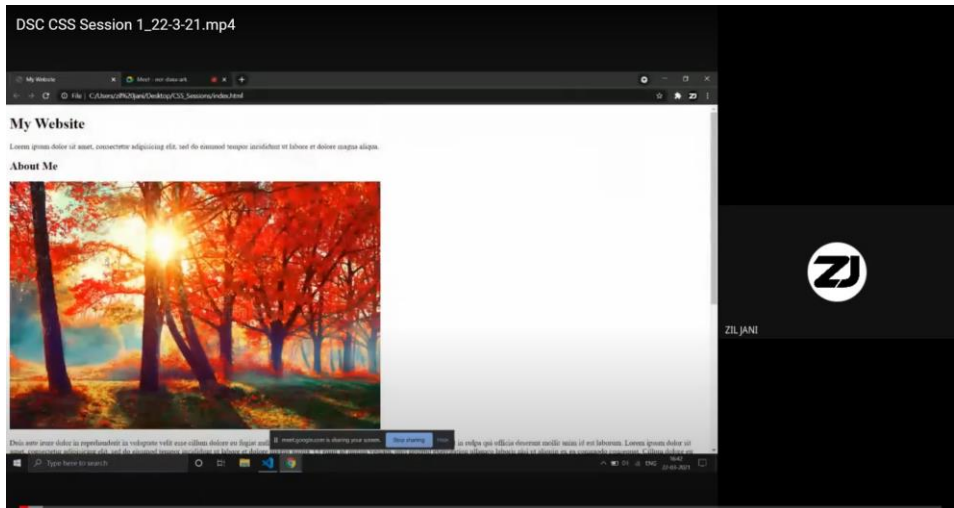
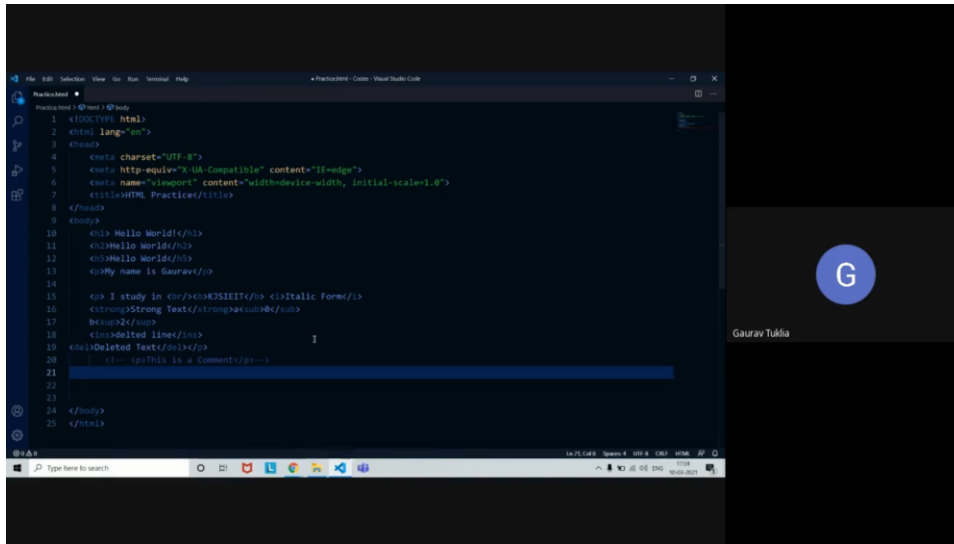
- Introduction to different parts and features of a website.
- Introduction to HTML and its concepts.
- Introduction to CSS and its concepts.
- Introduction to Bootstrap and its concepts.
- Introduction to Vanilla JS.
- How to build a website.

Outcomes:

- Students understood the usage of technologies in web development.
- Students understood how to design and code the frontend of website.

There was a question-and-answer session followed by a ‘thank you’ note by Prince Gada.

Web Development Sessions:



1.3 Workshop on AJAX

Report of Developer Students Club Organized Workshop on AJAX

The Developer Students Club of K J Somaiya Institute of Engineering and Information Technology (KJSIEIT) organized a Crash Course on “AJAX” on **14 April, 2021** via Online Mode of Google Meet. The workshop was organized to introduce AJAX (Asynchronous JavaScript and XML) which is used in Web Development for quick communication with the servers. The resource person for the same was Sarvesh Soni, SE Comps.

No of participants/beneficiaries: The crash course witnessed 20 participants.

Objectives:

- ✓ To learn AJAX (Asynchronous JavaScript and XML) which is used in Web Development for quick communication with the servers.

Key Points:

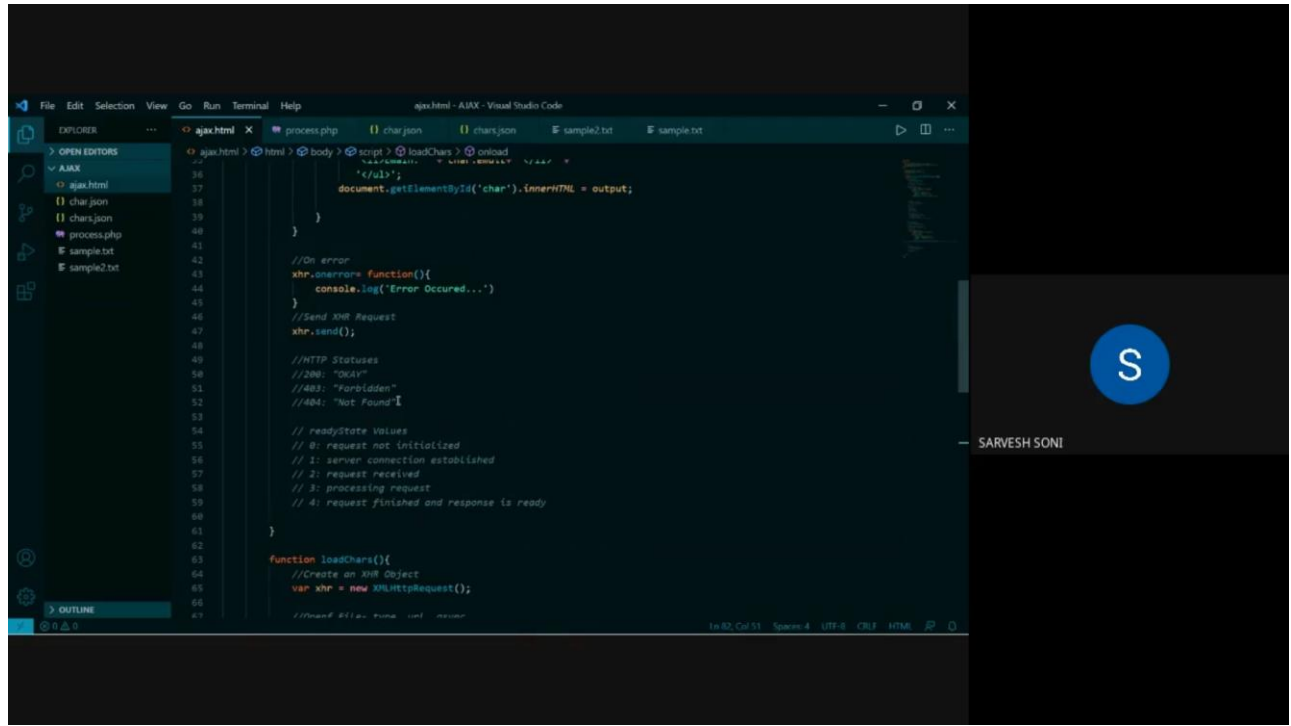
- Importance of AJAX in Web Applications.
- How to make XHR object for using AJAX
- How to get data from text and JSON files using AJAX.
- How to get data from external APIs and php files using AJAX.
- Understanding difference between html GET & POST forms and AJAX GET & POST forms and how to implement them.
- A gist towards how it can be used along with database.

Outcomes:

- Students understood the usage of Flutter, Dart and Firebase in modern mobile application development.
- Students understood how to build and publish professional mobile application

There was a question-and-answer session followed by a ‘thank you’ note by Sarvesh Soni.

Ajax Session:





1.4 Workshop on Flutter

Report of Developer Students Club Organized Workshop on Flutter

The Developer Students Club of K J Somaiya Institute of Engineering and Information Technology (KJSIEIT) organized a Crash Course on “**Flutter and Dart Technology**” on **20 May, 2020** via Online Mode of Google Meet. The crash course was organized to train students in the world of making mobile applications. The resource person for the same was Hussain Lokhandwala, TE Comps and Utkarsha Mokashi, SE Comps.

No of participants/beneficiaries: The crash course witnessed around 40 - 50 participants.

Objectives:

- ✓ To learn Flutter and Dart which are being used in industry for mobile application development.

Key Points:

- Importance of Flutter and Dart.
- How to install Flutter, Dart in your PC and setting up the same.
- How to build a modern mobile application using Flutter and Dart.

Outcomes:

- Students understood the usage of Flutter and Dart in modern mobile application development.
- Students understood how to build and publish professional mobile applications.

There was a question-and-answer session followed by a ‘thank you’ note by the resource persons.

Flutter Sessions:

ACADe MIND

Flutter Architecture

- UI as Code: Build a Widget Tree
- Embrace Platform Differences
- One Codebase

HUSAIN LOKHANDWALA

Flutter session 1 (2021-04-14 at 04:38 GMT-7)

You are presenting

You're presenting to everyone

Stop presenting

Meeting details

0:03 / 2:02:51

Utkarsha Mokashi

```

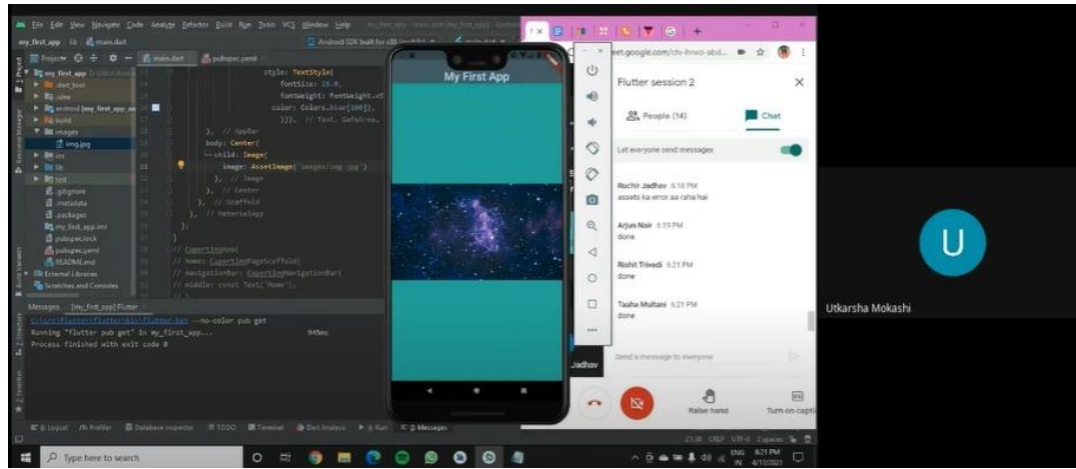
import 'package:flutter/material.dart';

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

class MyApp extends StatelessWidget {
  // This widget is the root of your application.
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Flutter Demo',
      theme: ThemeData(
        // This is the default theme in Flutter. You can
        // explore more themes by visiting:
        // https://flutter.dev/docs/cookbook/visual-design/themes
        primaryColor: Colors.blue,
      ),
      home: Scaffold(
        appBar: AppBar(
          title: 'Flutter Demo',
        ),
        body: Center(
          child: Text('Hello, World!'),
        ),
      ),
    );
  }
}

```

Utkarsha Mokashi





1.5 Workshop on React JS

Report of Developer Students Club Organized Workshop on React JS

The Developer Students Club of K J Somaiya Institute of Engineering and Information Technology (KJSIEIT) organized a Crash Course on “**React JS**” on **16 April, 2021** via Online Mode of Google Meet. The resource person for the same was Paras Kori, SE Comps.

No of participants/beneficiaries: The crash course witnessed 15 participants.

Objectives:

- ✓ To learn basics of advanced JavaScript and React which is being used for front-end development currently.
- ✓ To learn how to handle API calls and work with other forms of backend technology in unison with React.

Key Points:

- Importance of React Library.
- Basic setup of using React in your SPA (Single Page Application)
- What is Babel ?
- Use of create-react-app template.
- Use of function based componets.
- Use of basic hooks (useState, useEffect).
- Handling API calls from an api named Fake Store API.

Outcomes:

- Students understood the basics of React and how it works (i.e. Transpiled using Babel).
- Students understood how to install create-react-app boiler plate and use it to make responsive, interactive front-end.

There was a question-and-answer session followed by a ‘thank you’ note by Paras Kori.

React Sessions:

onUpdate/onChange Event Listener

- Like the last time, we had an `onClick` attr which is used when a buttons gets clicked. This time it is this function.
- So, our goal is to make a search bar right, to be more precise a search bar where there are some predefined things.
- For that too happen, the react should know what is being typed in the search bar.
- That's why we use this `onChange` event with the state hook.

```


import React from 'react'
import './searchbar.css'

const Searchbar = () => {
  const searchValue = "the search value"
  const handleInputChange = () => {}

  return (
    <div>
      <input type="text" value={searchValue} onChange={handleInputChange}/>
    </div>
  )
}

export default Searchbar

```



Paras Kori

KEY TAKEAWAYS


```

const reactContentRoot = document.getElementById('root')

const app = () => {
  const listName = "saltima";
  return (
    <div>
      <div id="1"/>
      <div id="2"/>
      <div id={listName.toLowerCase()}>
    </div>
  )
}

ReactDOM.render(<app />, reactContentRoot)

```



Paras Kori


React VS React-DOM

- Now, let's use React to make these things more easy and less repetitive.
- Add the two script tags.
- And make the `div id=root`.
- React generates HTML code for us, that's why we don't write HTML, but we do end up writing something like HTML, which is better known as JSX (JavaScript XML).

```

<div id="root">
  <div id="width-device-width, initial-scale=1.0">
    <title>React</title>
  </div>
  <div id="incrementBtn" class="btn btn-primary m-2">
    increment by 1</button>
    <div id="countdisplay" class="m-2">0</div>
  </div>
</div>

```



Paras Kori

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Summary:

Academic Year	AY 2020-21
Total No. of events conducted	5
No. of Participants	100
Funds provided by college in Rs.	0
Expenditure in Rs.	14397
Funds from external sources if any in Rs	15000
No. of sponsoring organizations if any (Gifts, Vouchers etc	7