



Workshop On Flutter And Node JS

Date: 26/11/2023

Location: Internet Lab

Target Audience: Basics Of Flutter And Android Development With Server Side Management.

Report of Day 1

BASIC OF Object Oriented Programming And Its Use Cases

On the First Day Of Training We Took A Session On Basics Of Programming And Made Students Understand The Importance Of Classes And Objects In A Program And Briefly Explained About The Architecture Of Flutter And How It Is Booming In Cross Platform Development.

Activities:

- We Gave Some Simple Programs Related To Object Oriented Programming And Solved It Together.
- Cleared All The Doubts Regarding Programming With Direct Interaction.
- At The End Had A QnA Session Regarding Simple Code And Code Architectures.

Outcomes:

- Some People Clear Their Doubts Regarding Building Logic And Some Of Them Got To Know How To Write Code In A Professional Way.
- They Were Happy To Learn About Android Development.

Report of Day 2

Flutter Setup Android Studio Setup

In Day To We Taught Them How To Setup Flutter And Android Studio Step By Step With The Minimum Requirements Required.

Activities:

- Complete Setup And Demonstration Of Some Basic Apps Done By Edwin's Students To Boost Their Confidence.

Outcomes:

- Students Got Enthusiastic To Learn Flutter After Seeing The App Done By Their Friends Who Are In Edwin's.

Report of Day 3

Introduction To Dart Programming

Dart, A New Programming Language For Many People So, We Started With Dart From Day 3 By Giving Them An Introduction About The Language. We Practised Many Programs Related To Dart And Were Successful In Training Them with The Dart Programming.

Activities:

- Learn How To Write Programs Using Dart And Try Solving The Basic Programming Questions In Dart.
- Had A Small Quiz Related To The Programming Part And Was Fun With Learning.

Outcomes:

- Learnt The Basics Of Dart That Is Required To Start Flutter Development And Even Some More Extra Concept Regarding Object Oriented Programming.

Report of Day 4

Introduction To Flutter Android Development

From This Day We Started Building Some Flutter Basics App By Using Some Material Designs Library With Some Idea About How Flutter App Is Compatible With Multiple Platforms.

Activities:

- Built Some Basic Apps Using Stunning Flutter Library Material Designs.
- Taught Students About Some Concept Of States In UI And Color Combination Helping In Better UI Designs For Best User Experience.

Outcomes:

- Students Were Happy With The Apps That They Built Now They Were Ready For More Concepts Like Page Shifting, Animations.

Report of Day 5

Flutter App Connections And Communication With Servers

The Last Day Of Flutter Where We Taught Them How To Connect Flutter With Other Coding Language And Some Data Structures In Dart.

Activities:

- Connected Flutter With Third Party Api's And Data Handling And Performing Some Actions On The Data With Real Time Example.
- Use Of Dart Data Structures In Creating Efficient Flutter Application.

Outcomes:

- Students Learnt How An Application Directly Communicates With Servers And How The Responses From The Server Is Handled.
- End Of Flutter Session Cleared All The Doubts Related To Flutter.

Report of Day 6

Introduction to Node.js and its Use Cases

On the Sixth day of training, we delved into the fundamentals of Node.js, enlightening the Students about its significance in modern web development. We elucidated the core concepts of Node.js and elucidated its various applications, demonstrating its versatility in building scalable network applications.

Activities:

- We initiated the session with an overview of Node.js, highlighting its asynchronous and event-driven nature.
- Students were engaged in hands-on activities, where they were tasked with executing simple programs related to Node.js.
- We fostered an environment of active participation by addressing doubts and queries directly, facilitating a deeper understanding of Node.js concepts.
- The session culminated with a stimulating QnA session, wherein Students probed into the nuances of Node.js architecture and implementation.

Outcomes:

- Several Students attained clarity on fundamental programming concepts, while others grasped the intricacies of writing code in a structured manner.
- The enthusiasm among the attendees for delving deeper into Node.js development was palpable, with many expressing eagerness to explore advanced topics.

Report of Day 7

Node.js Environment Setup and Project Initialization

It was dedicated to acquainting the Students with the essential steps for setting up a Node.js environment and initialising projects. We meticulously guided them through the installation process of Node.js and elucidated the fundamental tools required for seamless development.

Activities:

- Comprehensive setup guides were provided, ensuring Students could seamlessly configure their development environments.
- Live demonstrations showcased the creation of basic projects, empowering participants to embark on their Node.js journey confidently.
- Students were encouraged to explore project initialization independently, fostering a sense of autonomy and self-reliance.

Outcomes:

- Students exhibited heightened confidence in navigating the Node.js ecosystem, with many successfully setting up their development environments.
- The practical demonstrations served to bolster Students' understanding, enabling them to envision the practical application of Node.js in real-world scenarios.

Report of Day 8

Introduction to Express.js and RESTful APIs

Day eight commenced with an exploration of Express.js, a minimalist web framework for Node.js, and its role in simplifying the creation of web applications and APIs. Students were introduced to the concept of RESTful APIs and guided through the process of building them using Express.js.

Activities:

- Hands-on sessions immersed Students in the creation of RESTful APIs using Express.js, fostering a deeper understanding of routing, middleware, and request handling.
- Practical exercises enabled Students to implement CRUD operations, solidifying their comprehension of RESTful principles.
- A brief quiz provided an opportunity for Students to assess their understanding of Express.js and RESTful API concepts.

Outcomes:

- Students gained proficiency in leveraging Express.js to develop robust APIs, with many successfully implementing CRUD functionalities.
- The interactive nature of the session facilitated active learning, with Students expressing satisfaction at the depth of their newfound knowledge.

Report of Day 9

Database Integration with MongoDB

Day nine was dedicated to integrating MongoDB, a popular NoSQL database, with Node.js applications. Students were introduced to the fundamentals of MongoDB and guided through the process of integrating it seamlessly into their Node.js projects.

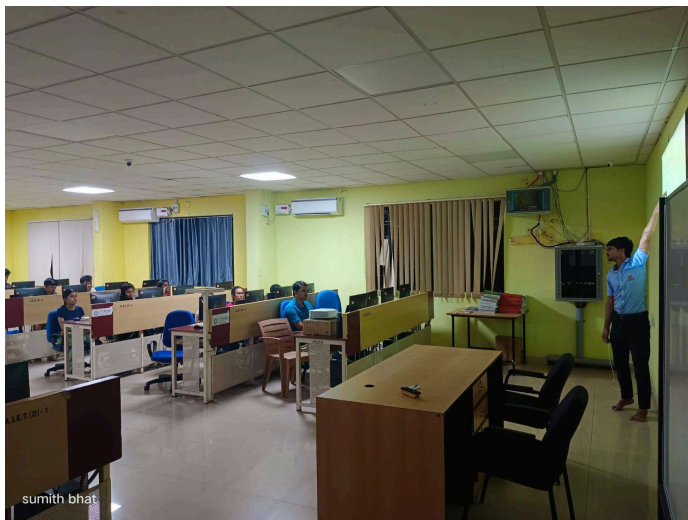
Activities:

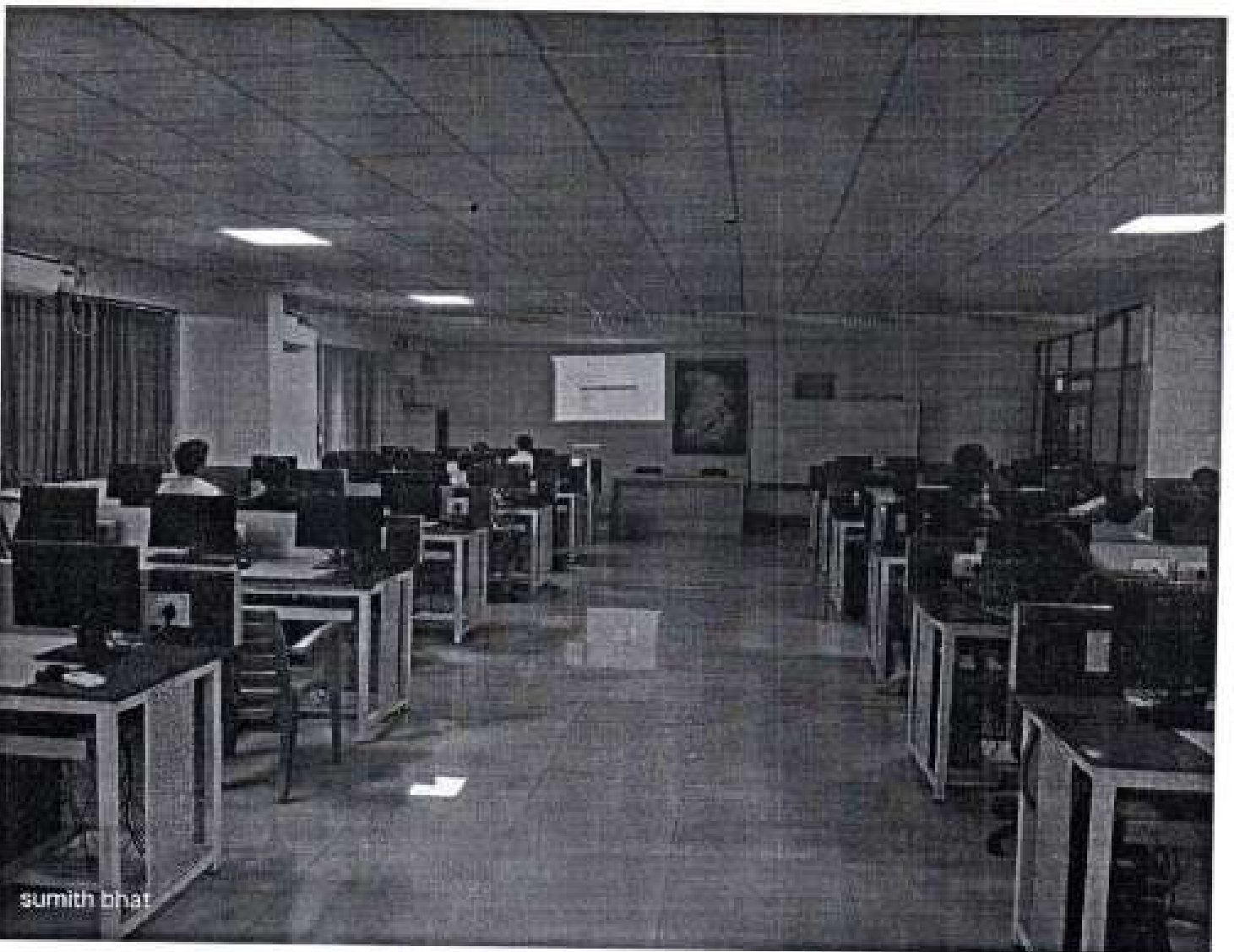
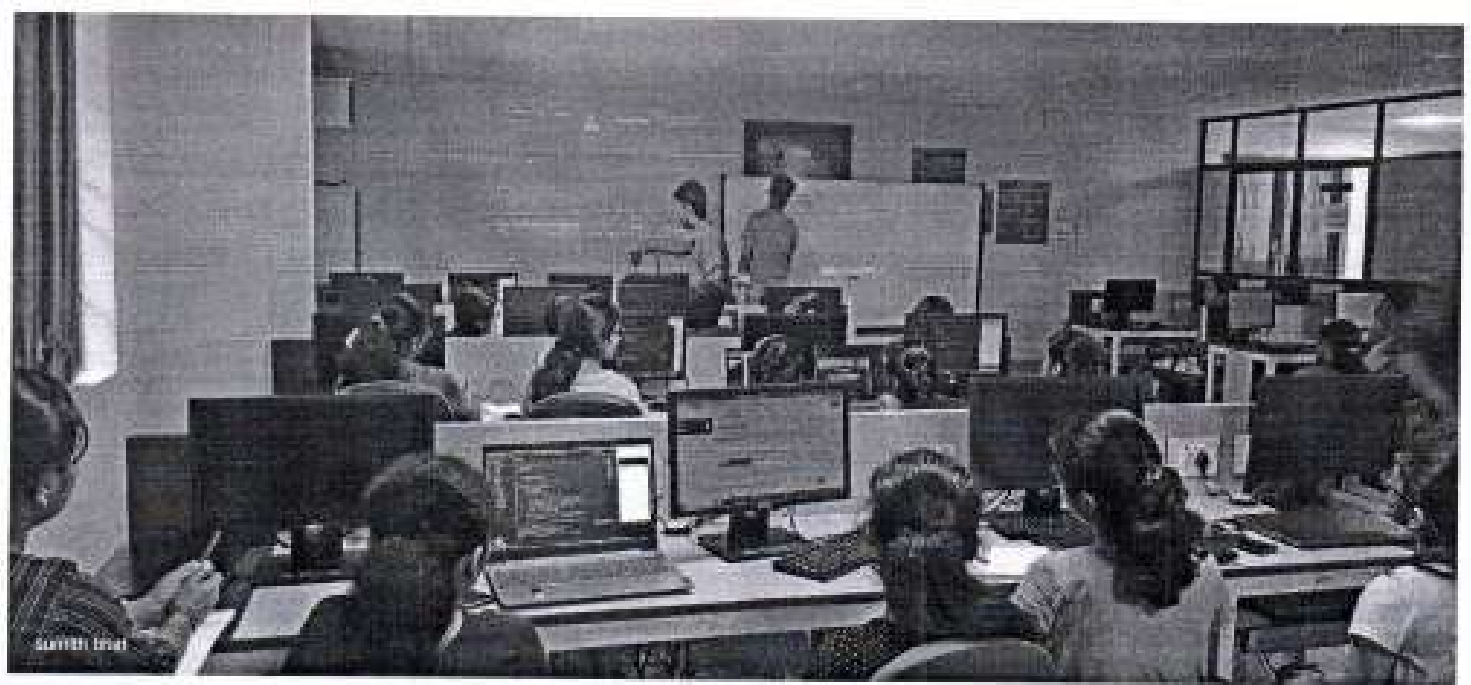
- Live demonstrations elucidated the process of connecting Node.js applications to MongoDB databases, emphasising concepts such as schema design and data manipulation.
- Hands-on exercises provided Students with the opportunity to interact directly with MongoDB, reinforcing their understanding of database integration.
- Students engaged in collaborative discussions, sharing insights and best practices for efficient database management within Node.js applications.


Outcomes:

- Students emerged with a comprehensive understanding of MongoDB integration, equipped with the skills to architect database-driven Node.js applications.
- The practical nature of the session empowered Students to overcome challenges related to database connectivity, instilling confidence in their ability to tackle real-world projects.

IMAGES OF WORKSHOP






Head of the Department
 Dept. of Computer Science & Engineering
 Alva's Institute of Engineering and Technology
 Mijar, Moodubidire - 574 225, D.K. Karnataka, India

Workshop On Open-Source Tools

Date: 07/12/2023, 08/12/2023, 11/12/2023

Location: DS LAB

Target Audience: Basic of Linux, LinkedIn and GitHub

Report of Day 1

BASIC OF LINUX

This workshop was conducted on **07/12/2023** for the **3rd sem A section** students by the **C-Maniax** aim if the of the workshop to provided an introduction to the basics of Linux, demystifying its core concepts and equipping participants with fundamental skills to navigate and interact with this popular open-source operating system.

Topics Covered:

- What is Linux? - Unveiling the Linux family, its history, and key characteristics.
- Linux Distributions: Exploring popular distributions like Ubuntu, Fedora, and Debian, highlighting their strengths and differences.
- Graphical User Interface (GUI): Navigating the desktop environment, launching applications, and managing files and folders.
- Command Line Interface (CLI): Introduction to the terminal, basic commands for navigating the file system, manipulating files, and managing processes.
- File System Structure: Understanding the directory tree structure, permissions, and accessing files.
- Essential Commands: Learning fundamental commands for listing files, copying and moving data, checking system information, and managing users.
- Scripting for Automation: A brief introduction to shell scripting for automating repetitive tasks.
- Additional Resources: Recommending online resources and tutorials for further learning.

Activities:

- Hands-on exercises: Participants practiced navigating the GUI and CLI through guided tasks and challenges.
- Interactive Q&A session: Facilitate open discussion and address participant queries throughout the workshop.
- Optional post-workshop activity: Suggest individual exploration of chosen distribution for continued learning.

**Outcomes:**

- Participants gained a practical understanding of basic Linux concepts and functionalities.
- Attendees learned essential commands for navigating the file system and managing files.

- Participants built confidence using the command line interface for basic tasks.
- The workshop stimulated interest in further exploration of Linux for personal and professional use.

Next Steps:

- Encourage participants to explore the recommended resources and continue practicing their skills.
- Offer follow-up sessions or advanced workshops to delve deeper into specific Linux topics.
- Gather feedback from participants to improve future workshops.

Overall, the workshop successfully introduced participants to the fundamentals of Linux, promoting its accessibility and versatility. The hands-on approach and interactive environment fostered a positive learning experience and ignited curiosity for further exploration of this powerful operating system.

BASIC OF LINKEDIN

This topic was taken to give basic of linkedin for empowered participants to unlock the full potential of LinkedIn, the world's largest professional network. We equipped them with essential strategies and tactics to build a powerful online presence, connect with key people, and leverage LinkedIn for career advancement or business growth.

Topics Covered:

- The Power of LinkedIn: Exploring the platform's benefits for individual and professional development.
- Crafting a Compelling Profile: Optimizing profile sections like headline, summary, experience, and skills to showcase your value proposition.
- Networking Strategies: Understanding effective connection building techniques, joining relevant groups, and engaging with industry voices.
- Content Marketing on LinkedIn: Sharing valuable insights and expertise through engaging posts, articles, and videos to become a thought leader.
- Job Search Strategies: Utilizing LinkedIn's advanced search tools, crafting winning job applications, and leveraging networking for hidden opportunities.
- Leveraging LinkedIn for Business: Implementing strategies for lead generation, brand building, and connecting with potential clients or partners.

- Advanced Tips & Tricks: Unveiling lesser-known features and hacks to maximize your LinkedIn experience.

Activities:

- Profile Makeover Session: Participants received personalized feedback and guidance on improving their LinkedIn profiles.
- Networking Simulation: Interactive exercises on breaking the ice, engaging in meaningful conversations, and building impactful connections.
- Content Creation Workshop: Brainstorming engaging content ideas and practicing effective article writing for LinkedIn.
- Mock Job Interviews: Guided practice sessions for crafting a compelling cover letter and excelling in virtual interviews.

Outcomes:

- Participants gained a comprehensive understanding of LinkedIn's functionalities and its potential for their personal and professional goals.
- They learned how to optimize their profiles and leverage strategies for effective networking and job search.
- Attendees developed skills for content creation and utilizing LinkedIn as a platform for thought leadership and brand building.
- The workshop inspired confidence and equipped participants with actionable strategies to make the most of their LinkedIn presence.

Next Steps:

- Encourage participants to implement the learned strategies and actively engage on LinkedIn.
- Offer follow-up resources and support, including Q&A sessions or webinars.
- Consider conducting advanced workshops covering specific topics like LinkedIn Sales Navigator or content marketing strategies.

Overall, the workshop proved insightful and empowering, equipping participants with the tools and knowledge to succeed on LinkedIn. By fostering a hands-on and interactive environment, the workshop fueled an understanding of this powerful platform's potential for career advancement, business growth, and professional networking.

BASIC OF GITHUB

This workshop unveiled the wonders of Git and GitHub, empowering participants with the foundational knowledge and skills to navigate this powerful version control platform. We demystified key concepts like version control, repositories, branches, and collaboration, equipping participants to manage their projects effectively and collaborate seamlessly with others.

Topics Covered:

- Version Control Demystified: Understanding the benefits and importance of version control for managing project changes.
- Introducing Git: Exploring the fundamentals of Git, its core commands, and working directory structure.
- Meet GitHub: Unveiling the functionalities of GitHub as a web-based platform for hosting Git repositories and collaboration.
- Creating Your First Repository: Stepping into the world of GitHub by setting up a new repository and understanding its components.
- Versioning with Git: Mastering basic Git commands for adding, tracking, committing, and reverting changes to your project files.
- Branching Out: Exploring the power of branching to experiment with different versions of your project without affecting the main codebase.
- Collaboration through Pull Requests: Learning how to share your changes with others and merge them seamlessly into the main branch using pull requests.
- Troubleshooting Common Issues: Demystifying common Git errors and providing guidance on resolving them effectively.

Activities:

- Hands-on Exercises: Participants practiced Git commands and GitHub workflows through interactive exercises, solidifying their understanding through practical application.
- Live Demo: Facilitator showcased common Git and GitHub actions during a live demonstration, providing visual cues to complement theoretical explanations.
- Q&A Session: An open forum for participants to ask questions, clarify doubts, and gain deeper insights into specific aspects of Git and GitHub.

Outcomes:

- Participants gained a solid understanding of Git and GitHub's core concepts and functionalities.
- They learned essential Git commands for versioning, branching, and collaborating on projects.
- Attendees developed confidence in working with Git and GitHub to manage their code effectively.
- The workshop sparked an interest in further exploring Git and GitHub's advanced features for more complex projects.

Next Steps:

- Encourage participants to practice their newly acquired skills on personal projects or collaborate with others on GitHub.
- Recommend online resources and tutorials for further learning and exploring advanced Git and GitHub features.
- Offer follow-up support and Q&A sessions to address any challenges participants may encounter.

Overall, the workshop successfully demystified Git and GitHub, providing participants with a strong foundation for version control and collaboration. The interactive format and hands-on exercises fueled understanding and fostered confidence in utilizing these powerful tools to manage and share their projects effectively.

REPORT OF DAY 2

BASIC OF LINUX

This workshop was conducted on **08/12/2023** for the **3rd sem B section** students by the **C-Maniax** aim if the of the workshop to provided an introduction to the basics of Linux, demystifying its core concepts and equipping participants with fundamental skills to navigate and interact with this popular open-source operating system.

Topics Covered:

- What is Linux? - Unveiling the Linux family, its history, and key characteristics.
- Linux Distributions: Exploring popular distributions like Ubuntu, Fedora, and Debian, highlighting their strengths and differences.
- Graphical User Interface (GUI): Navigating the desktop environment, launching applications, and managing files and folders.
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- Essential Commands: Learning fundamental commands for listing files, copying and moving data, checking system information, and managing users.
- Scripting for Automation: A brief introduction to shell scripting for automating repetitive tasks.
- Additional Resources: Recommending online resources and tutorials for further learning.

Activities:

- Hands-on exercises: Participants practiced navigating the GUI and CLI through guided tasks and challenges.
- Interactive Q&A session: Facilitate open discussion and address participant queries throughout the workshop.
- Optional post-workshop activity: Suggest individual exploration of chosen distribution for continued learning.

**Outcomes:**

- Participants gained a practical understanding of basic Linux concepts and functionalities.
- Attendees learned essential commands for navigating the file system and managing files.
- Participants built confidence using the command line interface for basic tasks.
- The workshop stimulated interest in further exploration of Linux for personal and professional use.

Next Steps:

- Encourage participants to explore the recommended resources and continue practicing their skills.
- Offer follow-up sessions or advanced workshops to delve deeper into specific Linux topics.
- Gather feedback from participants to improve future workshops.

Overall, the workshop successfully introduced participants to the fundamentals of Linux, promoting its accessibility and versatility. The hands-on approach and interactive environment fostered a positive learning experience and ignited curiosity for further exploration of this powerful operating system.

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Activities:

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- **Networking Simulation:** Interactive exercises on breaking the ice, engaging in meaningful conversations, and building impactful connections.
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Overall, the workshop successfully demystified Git and GitHub, providing participants with a strong foundation for version control and collaboration. The interactive format and hands-on exercises fueled understanding and fostered confidence in utilizing these powerful tools to manage and share their projects effectively.

Report of Day 3

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This workshop was conducted on **11/12/2023** for the **3rd sem C section** students by the **C-Maniax** aim if the of the workshop to provided an introduction to the basics of Linux, demystifying its core concepts and equipping participants with fundamental skills to navigate and interact with this popular open-source operating system.

Topics Covered:

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Head of the Department
Dept. of Computer Science & Engineering
Alva's Institute of Engineering and Technology
Mijar, Moodubidire - 574 225, D.K. Karnataka, India



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

A Unit of Alva's Education Foundation (R)

(Affiliated to Visvesvaraya Technological University, Belagavi.

Approved by AICTE, New Delhi & Recognized by Government of Karnataka)

Shobhavana Campus, Mijar, Moodbidri- 574 225, Mangalore, D.K., Karnataka State.

Phone: 08258-262724 (O), 262725(P), Telefax: 08258-262726

(Accredited by NAAC with A+ Grade and Accredited by NBA New Delhi CSE & ECE)

EDWIN'S LAB



Date: 6th July 2024

Time: 12:45pm

Dr. Aslam B Nandyal, the faculty in-charge, conducted a session for the student coordinators and members of Edwin's Club aimed at enhancing their understanding and skills in various aspects of Computer Science, as well as preparing them for the challenges of the professional world.



Current Job Markets: Dr. Aslam provided an in-depth analysis of the current job markets in the field of Computer Science, emphasizing the importance of adapting to the evolving demands of the industry. He highlighted the trends in technology, such as the rise of artificial intelligence, cybersecurity, and data science, and discussed the need for students to align their skills with the market requirements. Dr. Aslam also stressed the significance of developing versatile skill sets to remain competitive in a dynamic job market.

Example: Dr. Aslam cited the increasing demand for professionals with expertise in cloud computing and explained how this trend is shaping job opportunities in the IT industry.

Setting Deadlines for the Project and Working Accordingly: The session delved into the crucial aspect of project management, with Dr. Aslam emphasizing the significance of setting realistic deadlines and adhering to them. He highlighted the importance of time management and prioritization in project execution, emphasizing that meeting deadlines is imperative for successful project completion.

Example: Dr. Aslam presented a case study of a software development project and illustrated how effective deadline setting and adherence contributed to the project's success, while also discussing the consequences of missed deadlines.

Learning and Teaching Latest Technologies to and from Fellow Members: Dr. Aslam encouraged the students to foster a culture of knowledge sharing within the club. He emphasized the value of learning from each other's expertise and experiences, and discussed the benefits of peer-to-peer education in keeping pace with rapid technological advancements.

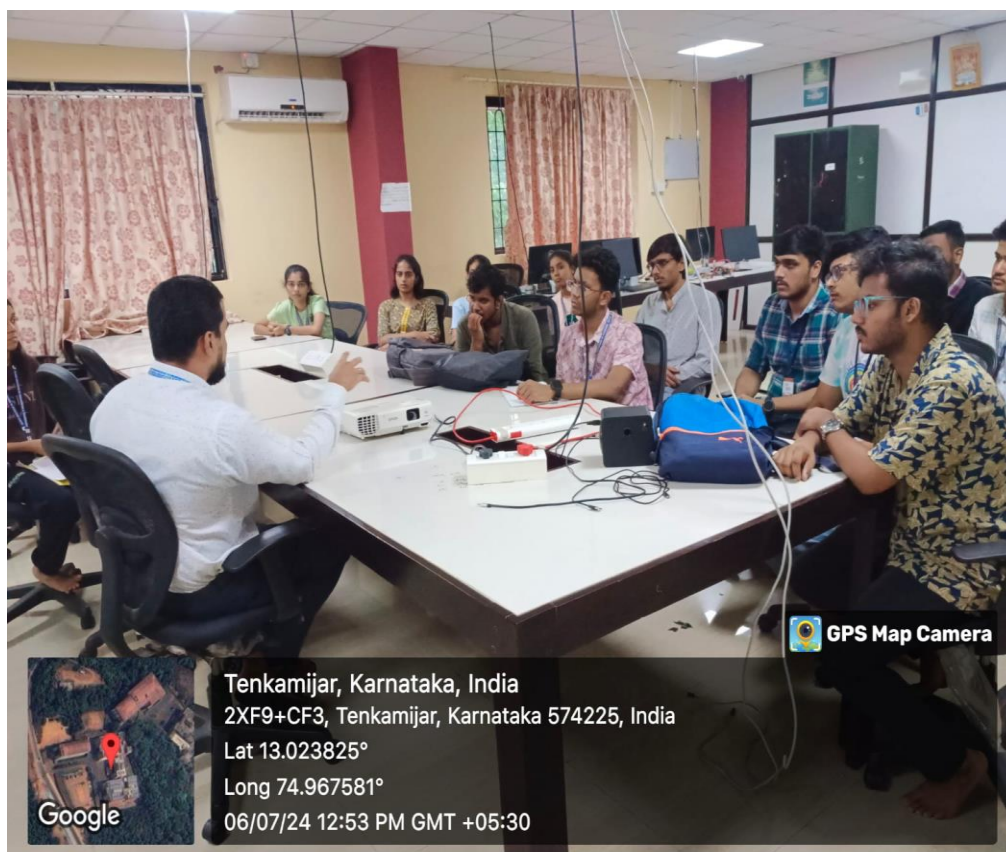
Example: Dr. Aslam shared a story of a group of students who collectively explored a new programming language and efficiently taught each other, resulting in a collaborative learning experience that enriched their skill sets.

Not Taking Things Lightly and Getting Out of the Comfort Zone: The session emphasized the need for students to embrace challenges and step out of their comfort zones to maximize their potential. Dr. Aslam stressed the importance of being proactive, taking on new responsibilities, and seeking growth opportunities beyond one's familiar domain.


Example: Dr. Aslam shared his personal experience of venturing into an unfamiliar research area outside his expertise, highlighting how embracing discomfort led to valuable insights and personal development.

Proper Entry in the Attendance Register to be Maintained: Dr. Aslam reiterated the necessity of maintaining accurate attendance records for club activities. He emphasized the importance of this practice for accountability, documentation, and future reference.

Example: Dr. Aslam discussed the implications of inaccurate attendance records and how they can impact the club's organizational efficiency, especially in cases of collaborations with external stakeholders or academic evaluations.



Conclusion: The session concluded with an interactive Q&A session, allowing students to seek further clarity on the discussed topics and engage in constructive dialogue with Dr. Aslam. The insights and guidance provided by Dr. Aslam are expected to equip the student coordinators and members of Edwin's Club with valuable knowledge and skills essential for their academic and professional pursuits in the field of Computer Science.



Head of the Department
Dept. of Computer Science & Engineering
Alva's Institute of Engineering and Technology
Mijar, Moodubidire - 574 225, D.K. Karnataka, India



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A Unit of Alva's Education Foundation (R)

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Shobhavana Campus, Mijar, Moodbidri- 574 225, Mangalore, D.K., Karnataka State.

Phone: 08258-262724 (O), 262725(P), Telefax: 08258-262726

(Accredited by NAAC with A+ Grade and Accredited by NBA New Delhi CSE & ECE)

EDWIN'S LAB



Date: 7th July 2024 (Sunday)

Time: 05:00-7:00pm

Meeting Report

Location: Google Meet (<https://meet.google.com/tzb-ijfr-wjm>)

Attendees:

Dr. Aslam B Nandyal, Faculty Incharge

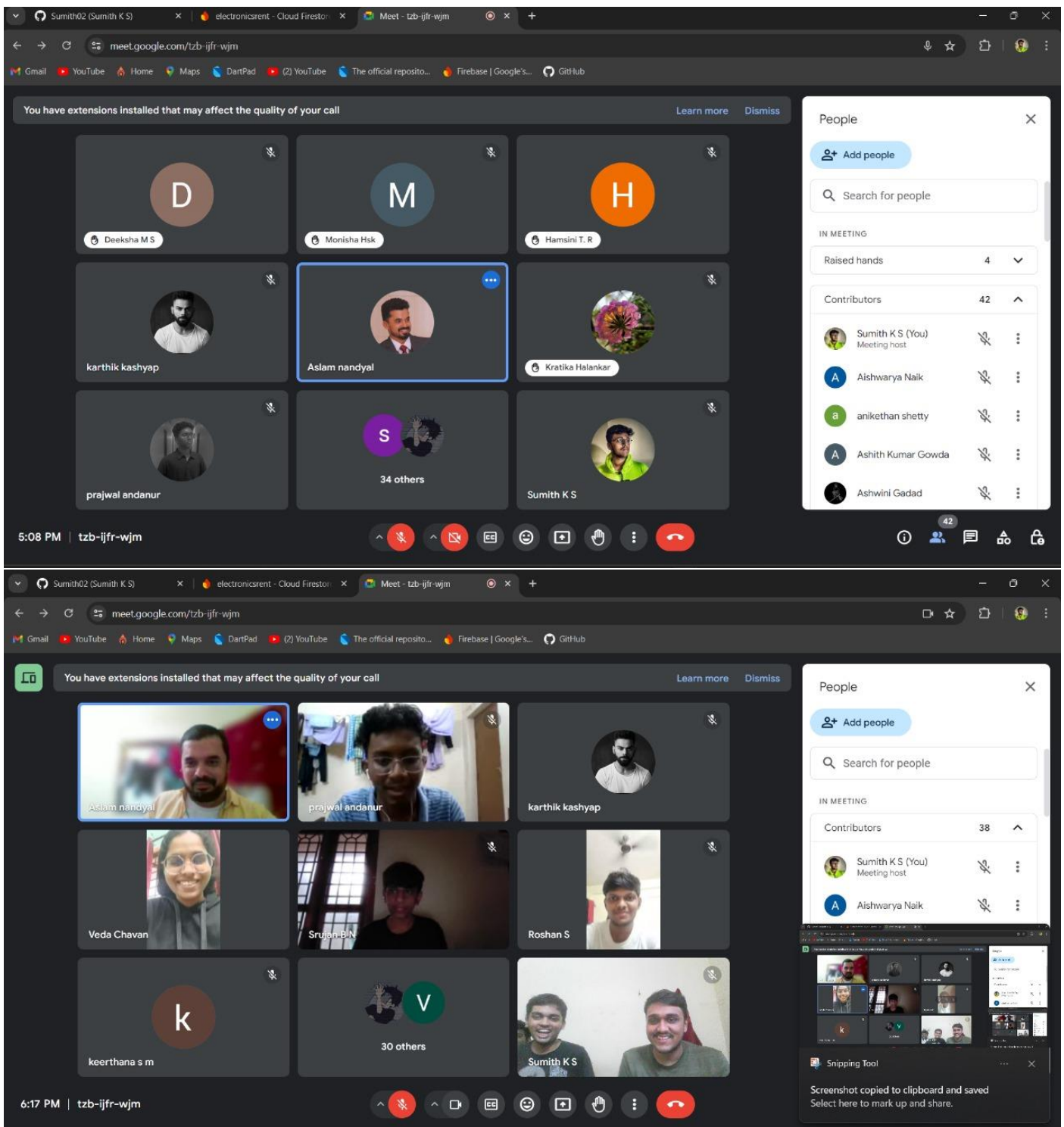
Student Coordinators and Members of Edwin's Club

Agenda: Project Status Updates and Deadlines

The meeting convened with Dr. Aslam B Nandyal and the student coordinators and members of Edwin's Club to review the progress and status of ongoing projects. Each project was presented, and Dr. Aslam emphasized the importance of meeting the deadlines and readiness for demonstrations on the mentioned deadline. Additionally, specific guidance was provided related to the ERP Project, stressing the need to design the application according to NBA SAR requirements to facilitate potential monetization opportunities.

Project Discussions:

- **ERP Project** Presented by Kartik, Keertana, and Nisarga: The ERP project was presented, with a focus on its current status and the roadmap for completion. Dr. Aslam emphasized the significance of aligning the ERP design with NBA SAR requirements to enhance the potential for in-house production level software that can be monetized extensively.
- **Biometric Lock System** Presented by Keertana, Vedika, Veena, Deeksha, and Roshan (Deadline: 2nd Sept 2024): The status and progress of the biometric lock system project were discussed, with an emphasis on meeting the upcoming deadline and ensuring readiness for a demonstration on the specified date.
- **LLM based Robot Project:** An overview of the LLM-based robot project was provided, and the team was encouraged to work diligently to meet project milestones and deadlines.
- **Web App Docker Containers** Terminals to Students: The status and progress of the web app project were assessed, and the importance of meeting the project's timeline was highlighted by Dr. Aslam to ensure timely completion and future demonstrations.



- **Traveling App** (Itinerary Application) Hotels and Lodges Presented by Anikethan, CSD 1st Year: The presentation of the traveling app project was reviewed, and the team was advised to work towards meeting project deadlines and prepare for upcoming demonstrations.
- **Component Management** Application Presented by Shubhanga and Kartik (Deadline: 10th Oct): The project timeline and progress were discussed, and Dr. Aslam stressed the importance of adhering to the deadline for timely completion and demonstration.

- **Farming Project Idea** Presented by Santosh, 1st Year (IOT and Cyber-security): The farming project idea was presented, and the team was urged to work diligently on the project, emphasizing the importance of keeping pace with project deadlines and milestones.

Dr. Aslam reiterated the importance of working within the specified deadlines for each project and being prepared for demonstrations as per the given deadlines. Special emphasis was placed on the ERP Project team to align the project with NBA SAR requirements to enable potential monetization opportunities.

Action Items:

The teams working on the various projects to adhere to the specified deadlines and ensure readiness for demonstrations as scheduled.

The ERP Project team to incorporate NBA SAR requirements in the project design to enhance its potential for in-house production level software.

Next Meeting: The next meeting will be scheduled to track the progress of the projects and ensure that the teams are on track to meet the established deadlines.


Head of the Department
Dept. of Computer Science & Engineering
Alva's Institute of Engineering and Technology
Mijar, Moodubidire - 574 225, D.K. Karnataka, India