



A J INSTITUTE OF ENGINEERING AND TECHNOLOGY

NH-66, Kottara Chowki, Mangaluru -575006, Karnataka, INDIA

A Unit of Laxmi Memorial Education Trust®

(Approved by AICTE, New Delhi. Affiliated to Visveswaraya Technological University, Belagavi)

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Workshop on “GitHub”

Date	08-06-2024
No. of participants	63
Resource Person	Mr. Darshan Bhandary, Beta Microsoft Learn Student Ambassadors & Ms. Nagavarshini, Alpha Microsoft Learn Student Ambassadors

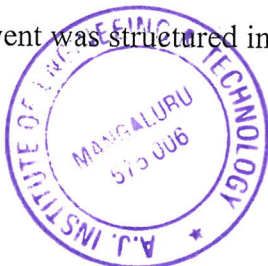
Report:

The Git and GitHub workshop conducted by Darshan Bhandary and Nagavarshini offered a comprehensive and hands-on exploration of essential version control concepts, practical Git commands, and effective collaboration strategies using GitHub which was conducted on 08/06/2024. The workshop aimed at equipping participants with essential skills in version control using Git and GitHub, which are crucial tools in modern software development.

Objectives: The session on “Git & GitHub” enable students/ faculty to

- **Understand Version Control:** Introduce participants to the concept and importance of version control in software development.
- **Learn Git Basics:** Teach fundamental Git commands and workflows, including cloning repositories, staging changes, committing, branching, and merging.
- **Explore GitHub:** Demonstrate how to use GitHub for remote repository management, including creating repositories, pushing commits, and collaborating through pull requests.
- **Hands-On Practice:** Provide participants with practical, hands-on experience to reinforce learning through guided exercises and projects.
- **Collaboration Techniques:** Highlight best practices for collaborative development using Git and GitHub, focusing on branching strategies, pull requests, code reviews, and resolving merge conflicts.
- **Build Confidence:** Ensure that participants leave the workshop with the confidence to apply their new skills to their own projects and collaborate effectively with others using Git and GitHub.

The event was structured into several sessions:



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1. **Introduction to Version Control and Git:** The workshop started with an overview of version control systems, emphasizing the need for tracking changes in software projects. The basics of Git, its installation, and setup were also covered.
2. **Basic Git Commands:** Participants learned fundamental Git commands, including git init, git clone, git add, git commit, git status, and git log. They practiced these commands in a local repository setup.
3. **Branching and Merging:** The session focused on branching strategies, creating and managing branches (git branch, git checkout, git merge), and resolving merge conflicts.
4. **Introduction to GitHub:** The workshop introduced GitHub, covering the creation of repositories, cloning remote repositories, pushing changes, and using issues for project management.
5. **Collaborative Workflows:** Participants learned about collaborative workflows, including forking repositories, creating pull requests, conducting code reviews, and merging contributions from multiple developers.
6. **Hands-On Project:** Participants applied what they had learned by collaborating on a sample project, creating branches, making changes, and submitting pull requests for review.

Throughout the workshop, real-time coding exercises were incorporated to reinforce learning and ensure participants gained practical experience.

Conclusion:

The event on " Git & GitHub " proved to be a valuable learning experience for the attendees. The knowledge and insights shared by resource persons provided a solid foundation for students. The Git & GitHub Hands-On Workshop successfully met its objectives by providing participants with a thorough understanding of version control and practical experience with Git and GitHub. The hands-on approach ensured that participants not only learned theoretical concepts but also gained confidence in applying these skills in real-world scenarios. Feedback from participants indicated a high level of satisfaction, with many expressing increased confidence in using Git and GitHub for their personal and professional projects.

The workshop concluded with a Q&A session, where participants could clarify doubts and seek further guidance. Certificates of participation were distributed, and resources, including slides and example code, were shared with attendees for future reference. The positive feedback and active



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engagement throughout the event highlighted the success of the workshop and the enthusiasm of the participants to integrate Git and GitHub into their development workflows.

Event Link	
QUIZ Link:	https://forms.gle/mwtccEuBrHJjqZrT6
Feedback Link:	https://forms.gle/zTJ7fYFTEeWay1PBA

Outcomes: On successful completion of program of this lecture/technical talk

1. Participants have learnt more about the Git & GitHub
2. Participants learned about collaborative workflows.
3. Participants applied what they had learned by collaborating on a sample project.

Articulation Matrix:

Course Outcome (COs)	Program Outcomes (POs)												PSOs	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2
1	1	-	-		1	-	-	-	1	-	-	-	1	-
2	-	-	-		1	-	-	-	1	1	1	1	1	-
3	-	-	-	1	1	-	-	-	1	1	1	1	-	1
Average	1	-	-	-1	1	-	-	-	1	1	1	1	1	1

Photos:

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 Kottara Chowki, Mangaluru

DEPARTMENT OF INTERNET OF THINGS AND CYBER SECURITY INCLUDING BLOCKCHAIN TECHNOLOGY
ORGANIZES
WORKSHOP on
GitHub

Saturday
08 JUNE 2024
Time
09.30 AM to 4:30 PM
Venue
A-304, 3rd Floor, AJIET

STUDENT COORDINATORS
MR. HARSH K. S.
3RD CSE STUDENT, AJIET
MR. HARSH K. S.
3RD YEAR CSE STUDENT AJIET
EVENT CO-COORDINATOR

Event Coordinator
Dr. Shantharama Bol C
Principal

First Year Coordinator
Dr. P. Mahabaleshwarappa
Dean Academics

OUR PATRONS
Mr. Prashanth Shetty
Vice President, LMET
Mrs. Sharanthi Shetty
Director, LMET

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Vice Principal
Dr. Prashantha Shetty K
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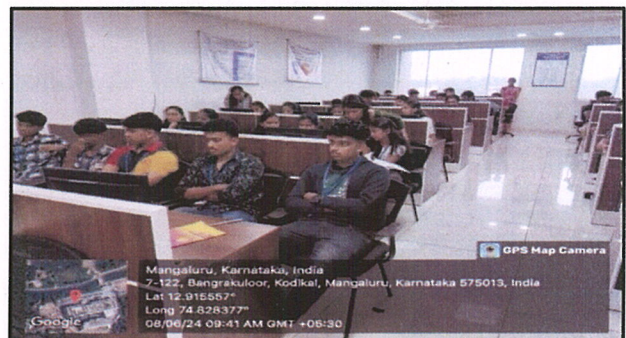
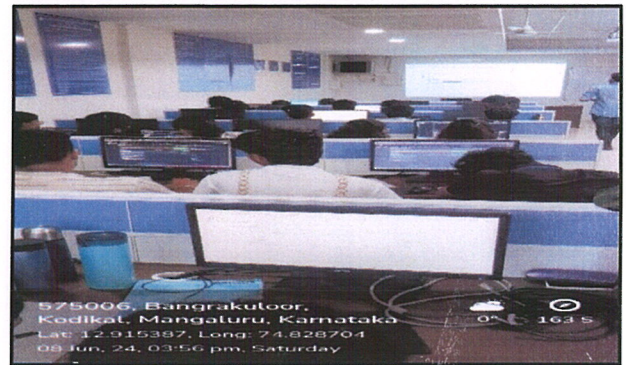
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Dr. Laxmi Gulappagol

Event Coordinator(s)

HOD (CSE)

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