S. A. P. D. Jain Pathashala's

Walchand Institute of Technology, Solapur

An Autonomous Institute

Department of Computer Science and Engineering

Organized by: Learning Out Loud Coding Club

Name of the Event: "Git and GitHub Workshop"

Date of the Event: 18/07/2024

Poster:

Objective

The primary objective of the Git and GitHub workshop was to introduce students to version control systems, specifically Git, and the collaborative platform GitHub. The workshop aimed to provide hands-on experience with fundamental Git commands and workflows, enabling students to effectively manage and track their code changes. Additionally, the session sought to enhance students' understanding of collaborative software development by teaching them how to push their local repositories to GitHub and work on projects collectively.

Outcomes

By the end of the workshop, participants will be able to:

1. Understand the basics of version control and the importance of using Git.
2. Execute Git commands.
3. Learn how to create and manage branches for parallel development.
4. Push a local repository to GitHub and understand the concepts of remote repositories and collaborate on projects.

Detailed Report

Introduction:

The "Git and GitHub" workshop, focusing on mastering the Version Control System (VCS) and collaboration, was organized by the LOL Coding Club to provide participants with insights and practical experience in these technologies. The workshop spanned three sessions and was conducted successfully on 18/07/2024 to 22/07/2024

Overview of Sessions:

Date: 18/07/2024
Time: 4:30 PM - 6:30 PM
Venue: Remote Center Hall Library Building

Session 1: Git Basics

The first session introduced the fundamentals of Git and version control systems (VCS). Students learned essential Git commands, including init, add, commit, and status, and explored how Git helps in managing code changes. The session included a hands-on activity where participants practised using these commands to create a repository and track changes. Emphasis was placed on understanding how version control supports collaboration in software development.

Session 2: Git Branching

In the second session, students delved into more advanced Git features, focusing on branching and merging. The session covered how to create and switch branches, and the importance of branching for parallel development. Students practised merging branches and resolving conflicts, learning how to manage different features or fixes within a project. The practical exercises highlighted the value of branching in collaborative projects.

Session 3: GitHub and Collaboration

The final session introduced GitHub, covering key features such as pushing to, pulling from, and cloning repositories. Students learned how to integrate their local repositories with GitHub and explored additional GitHub functionalities like pull requests, forks and issues.

The session concluded with a comprehensive quiz, testing students' understanding of Git and GitHub concepts covered over the three days

Attendance and Participation:

The workshop witnessed an overwhelming turnout, with over 125 participants actively engaging in discussions, activities, and networking opportunities. Students and faculty members alike contributed to the vibrant atmosphere and collaborative spirit of the event.

Rewards and Recognition:

To celebrate the achievements of participants, winners were selected based on their performance in the final quiz. These rewards acknowledged their hard work and encouraged continued learning and enthusiasm.

Quiz Competition Results:

Winner: Ojas Dhotre - TY CSE

Runner Up: Sandip Kharate - TY ECE

Speaker:

Three students from final-year CSE department conducted the workshop.

- **Yogesh Kulkarni**: Delivered a session on Git and GitHub fundamentals.
- **Abdul Basit Peerampalli:** Elaborated branching, merging, and collaborative development.
- **Irfan Shaikh**: Simplified advanced Git concepts and practical applications.

Their combined expertise ensured a thorough and engaging learning experience for all participants.

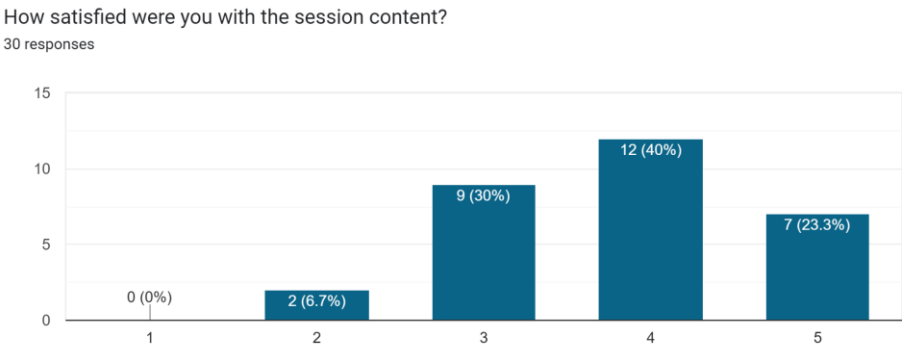
Feedback

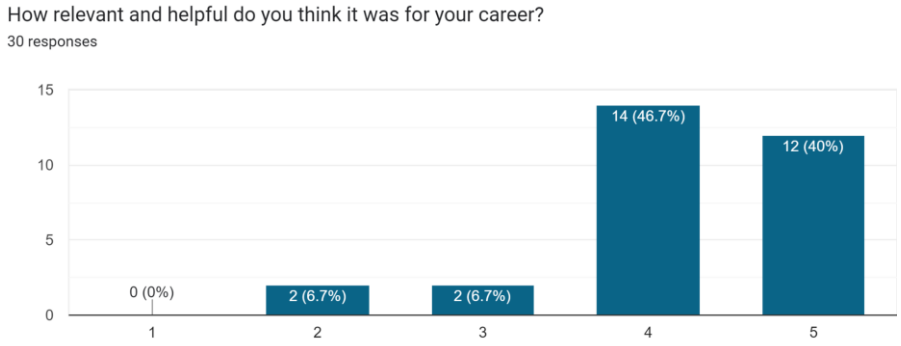
Participants were invited to share their feedback on the workshop content, delivery, and organization. Feedback forms were distributed and collected to assess the effectiveness of the sessions and gather insights for future improvements and enhancements.

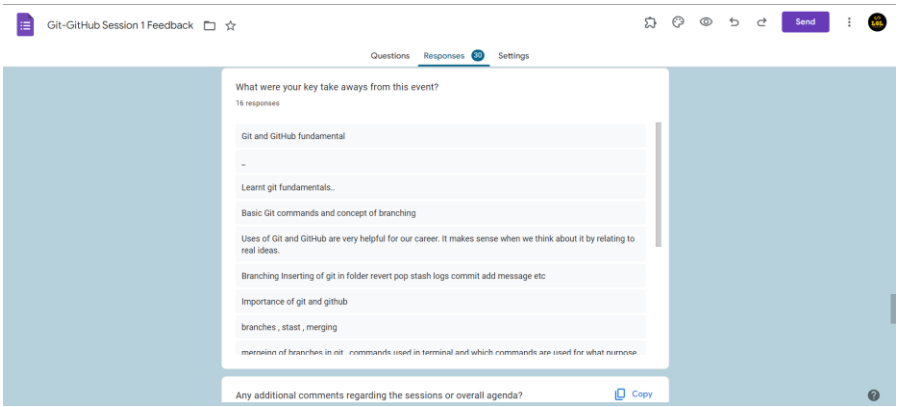
Git-GitHub Session 1 Feedback (Responses)

Git-GitHub Session 2 Feedback (Responses)

Git-GitHub Session 3 Feedback (Responses)







Photographs

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