CodeCruise

SAIL SMOOTH IN TECH OCEAN

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SCM With Git

Source Code Management (SCM), also known as Version Control, is a critical component in software development. It enables teams to effectively manage changes to their codebase over time, ensuring collaboration, accountability, and reliability in software development projects.

Tech Stack To Be Covered

Git

SCM With Git

Course Outline:

1. Introduction to Source Control Management and Git

    - Basics of version control and introduction to Git

2. Getting Started with Git

   - Installing Git and setting up configurations
   - Basic Git commands for managing repositories

3. Working with Repositories

   - Creating, cloning, and forking repositories

4. Branching and Merging

   - Creating branches, switching between branches, and merging changes

5. Collaborating with Git

   - Pushing and pulling changes, resolving conflicts, and conducting code reviews

6. Advanced Git Concepts

   - Understanding rebasing, cherry-picking, and Git hooks

7. Git Workflows

   - Exploring different Git workflows like centralized, feature branching, and Gitflow

8. Git Best Practices

   - Following best practices for commit messages, branch naming, and Gitignore

9. Git Hosting Platforms

   - Overview of popular Git hosting platforms like GitHub, GitLab, and Bitbucket

10. Git Tips and Tricks

   - Utilizing aliases, interactive rebase, and bisect for efficient Git usage