

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Class /Sem : III yr /06

Date: 31/01/2026

Batch : C14

Project Guide: Dr.Y.Baby Kalpana Prof/CSE

Project Title : DevSphere -An online coding platform with AI Integration

Team Members:

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Abstract :

DevSphere is an innovative MERN stack platform designed to revolutionize collaborative coding by enabling multiple developers to work together in real-time, similar to Google Docs, while coding. It features a multi-user code editor with live cursor tracking, conflict-free editing, and support for popular programming languages like JavaScript, Python, HTML/CSS, and Java. Integrated AI-driven debugging provides instant error detection, suggested fixes, code explanations, and performance optimization tips, helping developers write cleaner, more efficient code. Additionally, DevSphere includes project management tools such as a file tree, cloud storage, Git integration, and the ability to export projects to GitHub, creating a seamless and intelligent collaborative development environment.

Modules:

- Module 1: Real-Time Code Editor
- Module 2: AI Debugging Assistant
- Module 3: Room Management
- Module 4: Live Chat & Communication
- Module 5: Project Management

Project Progress on 31/01/2026:

Started designing the ui/ux and we are halfway done.

Project Plan for 14/02/2026:

To finish frontend and start working on backend.