# **CONNECT PLUS**

Academic Year: 2025-26 Branch: CSE Section: B

PROJECT TITLE: Connect Plus: Bridging Alumni and Students

**DOMAIN:** Web Development & Cloud Integration

Type Of the Project (Application/ Product/ Research): Product

Team Number: 4

1. S. Sai Teja Akhil	22071A05A9	akhilseeramreddy@gmail.com	7989309254
2. T. Sri Krishna Chaithanya	22071A05B6	talasilaskc@gmail.com	8919100257
3. T. Aniketh	22071A05C2	aniketh.hyd.456@gmail.com	9154200998
4. V. Pavan Praneeth	22071A05C4	varipavan415@gmail.com	9347637758
5. D. Vinay	23075A0510	daripellyvinay@gmail.com	9398281750

#### **Abstract**

Connect Plus is a digital platform developed to build a strong bridge between students and alumni of an institution. The system enables alumni to register, login, and share announcements or opportunities via time-bound posts that include text, images, and expiry timestamps. Students can explore these posts in a dynamic, real-time timeline view that automatically filters out expired content.

The application ensures easy navigation, responsive design, and efficient backend handling of events and data. It also incorporates features like image viewing, announcement expiry automation, and a clean dashboard. Faculty and students benefit from access to alumni profiles and event tracking. The project emphasizes modular development and continuous integration/deployment following DevOps principles.

### **Planned Implementation**

The development is organized into weekly milestones, each delivering key features through assigned roles:

Week	DevOps Stage	Development Activities	DevOps Activities	Tools/Technologies
Week 1	Plan	Define functional modules, data models, and user roles. Set up GitHub repo and issue board.	Sprint planning, roadmap creation, task assignments	GitHub Projects
Week 2	Develop	Build Home, Login, Register, Profile pages with validation using React and Bootstrap.	Branch-based modular coding with version control	React.js, Bootstrap 5, Git, GitHub
Week 3	Build	Develop backend APIs for authentication, image posting, and event creation.	Commit code, set up Webpack for bundling, check for code consistency	Express.js, Firebase, , GitHub Actions
Week 4	Test	Integrate backend with frontend. Build timeline page showing sorted, expiring events.	Unit testing of API endpoints and frontend components	Postman
Week 5	Release	Add auto-expiry logic using cron or Firebase Functions. Finalize all event UI features.	Prepare production build and tag release version	Firebase Functions, GitHub Tags, npm
Week 6	Deploy	Finalize UI components, polish responsiveness and error handling.	Configure GitHub Actions for CI/CD, deploy on Firebase or Vercel	GitHub Actions, Firebase Hosting,
Week 7	Operate	Finalize test cases, handle edge cases, and write documentation (README, APIs).	Setup DB validation, monitoring for image and auth failures	Firebase Realtime DB, Firestore Rules, Google Cloud Logs

Week 8	Monitor	Deploy final build,	Analyze Firebase	Firebase Logs	
		record demo, and test	usage, log		
		performance in	cleanup, and		
		production.	capture		
			performance		
			metrics		

#### **Final Deliverables**

- React Frontend with all pages
- Node.js Backend with Firebase integration
- CRUD for posts with expiry logic
- CI/CD setup using GitHub Actions
- Tested application and documentation
- Live demo link and submission package

## **Tools & Technologies**

- Frontend: React.js + Bootstrap 5
- Backend: Node.js + Express
- Database: Firebase Realtime Database
- Storage: Firebase (Base64 for images)
- Version Control: Git + GitHub
- CI/CD: GitHub Actions
- Deployment: Firebase Hosting / vercel
- Testing: Manual + Postman