

DevSprint by ZeroOne CodeClub

Full Stack Project

Review 1



Team Number: 11

Team Lead: Sirapu Nishitha (2300030642)

Project Title: Social Media Platform (DPZOCC011)

Tech Stack: 1. React.js

2. Node.js

3. PostgreSQL

4. Firebase

5. AWS S3

Team Members:

- | | | |
|---------------------------|---|------------------------|
| 1. Darapu Keerthana | – | 2300030154 |
| 2. Sirapu Nishitha | – | 2300030642 (Team Lead) |
| 3. Veeramachaneni Jayathi | – | 2300030713 |
| 4. Veeramachaneni Jeevani | – | 2300032841 |
| 5. Kakarla Nikitha | – | 2300090019 |

Roles:

1. Darapu Keerthana:

- Project Flow Designer
- Defining the workflow of the Social Media Platform
- Maps out how different components interact (e.g., user authentication, posts, likes, comments)
- Ensures smooth user navigation and system efficiency

2. Sirapu Nishitha:

- Repository Manager
- Manages the project's GitHub repository and ensures smooth collaboration among team members
- Creates Documentation of the project.

3. Kakarla Nikitha:

- Tech Stack Researcher
- Gathers and documents details about the technologies used in the project
- Researches and selects suitable technologies, frameworks, and tools

4. Veeramachaneni Jayathi:

- Part of creation of repository in GitHub.
- Gathers details to be added in the repository

5. Veeramachaneni Jeevani:

- Part of preparing the project Documentation
- Gathers information to be added in the project documentation.

Project Details

Title: Social Media Platform (“SkillShare Hub”)

Tech Stack: 1. React.js

2. Node.js

3. PostgreSQL

4. Firebase

5. AWS S3

1. React.js (Frontend)

- Components: Profile, Skill Posts, Community Pages, Chat Interface.
- Routing: react-router-dom for seamless navigation.
- State Management: Context API or Redux for handling user state.
- API Calls: Fetching data from the backend via Axios or Fetch API.

2. Node.js (Backend)

- Express.js: Setting up RESTful APIs for authentication, posts, and communities.
- JWT Authentication: Secure user authentication.
- Middleware: Handling security, logging, and validation.

3. PostgreSQL (Database)

- User Data: Storing user profiles, skills, and achievements.
- Community Management: Tracking community memberships and posts.
- Relationships: Managing connections between users, posts, and communities.
- ORM: Sequelize or TypeORM for database interaction.

4. Firebase (Authentication & Real-Time Features)

- User Authentication: Google Sign-In, Email/Password login.
- Real-Time Chat: Firebase Firestore for real-time messaging.
- Push Notifications: Firebase Cloud Messaging (FCM) for alerts.

5. AWS S3 (File Storage)

- Skill Post Uploads: Storing images, videos, and documents.
- User Profile Pictures: Hosting and serving profile images.
- Access Control: Using AWS IAM roles for secure file access.

Project Description

Description:

“SkillShare Hub” is a social media platform designed for users to share, discover, and enhance skills in various domains such as programming, cooking, photography, and more. It provides a community-driven space where users can post skill-based content, join communities, attend live workshops, and interact with like-minded individuals.

Features:

- User-generated content (images, videos, text)
- Real-time messaging and notifications
- Personalized feed algorithm
- Can support short video reels like Instagram

1. User Authentication:
 - Secure login and registration using Firebase Authentication (Google, email, password).
2. Home Page:
 - Displays a trending skill feed where users can view posts, like, comment, and share.
3. Skill Post Page:
 - Users can create, view, and interact with detailed skill content.
4. Live Sessions & Chat:
 - Real-time workshops, Q&A sessions, and messaging for interactive learning.
5. Community Feature:
 - Users can create/join communities based on their interests and contribute content.
6. Profile Page:
 - Displays user's posts, achievements, joined communities, and profile settings.
7. Search Feature:
 - Allows users to search for skills, users, and communities.
8. Categories:
 - Organizes content into various skill categories for easy discovery.
9. Notifications:
 - Alerts for new posts, comments, and community activities.
10. Logout Feature:
 - Ensures secure session management.

