



North South University

Department of Electrical and Computer Engineering

CSE299 – Junior Design, Section- 04

Group No- 06

Project Title- yMedia- Video Streaming and Sharing

Platform

Weekly Progress Report- 03

This week, our team focused on building the backend API layer for YMedia, specifically working on server-side routes and authentication logic. Since our database models are already in place, this phase involved implementing secure and functional endpoints to handle user actions, video uploads, authentication, and admin-level access.

Md. Yeasin Hossain (ID- 2231812642), worked on the video route structure and overall content management API. He developed the backend logic for video uploads, fetching content, and handling user interactions such as likes and reviews. He also added admin-level routes to create homepage banners and video categories. Along with building these routes, he tested all endpoints thoroughly using Postman, verifying request-response behavior, authentication checks, and error handling. This ensured that the APIs function correctly and interact smoothly with the authentication and database layers.

Antara Labiba (ID- 2233585042), worked on the user route system, developing secure endpoints for updating user information, deleting accounts, retrieving user profiles, fetching all users (admin-only), and generating user statistics using MongoDB aggregation. These APIs handle key user operations and admin dashboard functionality. She also ensured encrypted password updates, token authorization checks, and tested the routes to verify smooth interaction with the authentication middleware and user model.

Pallab Biswas (ID- 2232057642), worked on the authentication workflow, including the authRoute and token-based middleware. He implemented user registration and login using encrypted password storage and JWT-based access tokens. Along with this, he built the verifyToken system to control access, ensuring only authorized or admin users can perform sensitive actions. His work established the core security layer of the application.

Overall, the team successfully completed the core backend API foundation, covering authentication, user management, content management, and access control. Next week, we plan to begin integrating these APIs with the frontend and testing the routes with different user roles to ensure secure and smooth functionality.