

Insyd Notification System

Project Documentation

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1. Objective

The Insyd Notification System demonstrates how notifications can be managed efficiently using a backend service. It handles events like likes, comments, and follows, stores them in a database, and allows users to retrieve them through API endpoints.

2. Technologies Used

- Backend: Node.js, Express.js
- Database: MongoDB
- Language: JavaScript
- Tools: Nodemon, Postman for testing

3. Architecture & Workflow

The system follows a simple client-server architecture where:

- The client sends events like likes, comments, and follows to the backend.
- The backend processes these events and stores them in MongoDB.
- Users can retrieve their notifications using RESTful APIs.

4. API Endpoints

Endpoint	Method	Description
/api/events	POST	Enqueue an event
/api/notifications/:userId	GET	Fetch user notifications
/api/users	GET	Retrieve list of users
/api/users/bootstrap	POST	Seed database with demo users
/api/health	GET	Health check endpoint

5. Installation & Setup

- Clone the repository: `git clone https://github.com/JatavathMaheshBabu/Insyd_notification_system_Project.git`
- Navigate to the project directory: `cd Insyd_notification_system_Project`
- Install dependencies: `npm install`
- Configure environment variables in `.env` file
- Start the server: `npm run dev` or `npm start`

6. Usage Instructions

Use Postman or any API testing tool to test endpoints. Initialize demo users using `/api/users/bootstrap` before enqueueing events.

7. GitHub Repository

Project Source Code:

https://github.com/JatavathMaheshBabu/Insyd_notification_system_Project

8. Conclusion & Future Work

The project successfully demonstrates notification handling using Node.js and MongoDB. Future improvements can include integrating real-time WebSocket notifications, user authentication, and a frontend interface for better user experience.