



# DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Discover. Learn. Empower.

## Report File FULL STACK

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### Project Report: Blogging Website

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#### 1. AIM

The aim of this project is to build a simple **Blogging Website** where users can:

- Create and read blog posts.
- Edit and delete their own posts.
- Store blog posts in a database.

The project helps beginners learn **frontend (HTML, CSS, JS)** and **backend (Node.js with Express)** basics, along with database usage.

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#### 2. TECH STACK

##### Frontend

- **HTML5** → Page structure.
- **CSS3** → Styling and layout.
- **Vanilla JavaScript** → Interactivity and fetching data from backend.

##### Backend

- **Node.js** → JavaScript runtime for backend.
- **Express.js** → Framework to handle routes and APIs.

##### Database

- **JSON file / MongoDB**
  - Use a local **JSON file** to store posts.

##### Tools

- **VS Code** → Code editor.
  - **Browser** → To run the application.
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### 3. THEORY / BACKGROUND

The Blogging site follows the **client-server model**:

- **Client (HTML, CSS, JS)** → Displays posts and has forms for creating/editing blogs.
- **Server (Node + Express)** → Handles requests (create, read, update, delete posts).
- **Database (JSON/MongoDB)** → Stores blog data.

We will design REST APIs:

- GET /posts → Fetch all posts.
- POST /posts → Create a new post.
- PUT /posts/:id → Edit a post.
- DELETE /posts/:id → Delete a post.

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### 4. PROCEDURE / IMPLEMENTATION

#### Step 1: Setup Environment

1. Install **Node.js**.
2. Create a new folder blog-site.
3. Run:
4. npm init -y
5. npm install express body-parser cors

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#### Step 2: Run the Project

1. Start the backend:
2. node server.js
3. Open index.html in your browser.
4. Create, view, and delete blog posts.

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### 5. CONCLUSION

This project shows how to build a **simple full-stack Blogging Site** using **JavaScript, HTML, CSS, and Node.js (Express)**.

It introduces:

- **Frontend (UI)** → HTML, CSS, JS.
- **Backend (APIs)** → Node.js + Express.
- **Data Storage** → In-memory or JSON file.