



COLLEGE CODE: 8203

COLLEGE: A.V.C COLLEGE OF ENGINEERING

DEPARTMENT: INFORMATION TECHNOLOGY

STUDENT NM-ID: 4F41387BBA25BDB9D3B42CDBA1894CEC

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Completed the project named as Phase 1

TECHNOLOGY PROJECT NAME: Blogging Platform

SUBMITTED BY,

NAME: SRI SAKTHI PRIYA K

MOBILE NO: 7812840394

Problem Statement:

Current blogging platforms often lack flexibility, customization, and developer control. Many provide limited markdown support, restricted API usage, and complex content management. This creates challenges for students, developers, and organizations who want a simple, secure, and API-driven blogging solution.

The proposed **Blogging Platform** will provide:

- Secure user authentication and authorization.
- Easy **blog creation**, **editing**, **and deletion** with markdown support.
- **CRUD operations** via REST APIs.
- Commenting support for community engagement.
- Scalable backend using **Node.js**, **Express**, and **MongoDB**.

Users and Stakeholders:

Users:

- **Bloggers** register/login, create blogs with Node.js-powered APIs.
- **Readers** view and comment on posts stored in MongoDB.
- Admins monitor blogs using protected Node.js routes.

Stakeholders:

- **Students & Developers** to practice full-stack development with Node.js.
- **Educational Institutions** internal blogging/knowledge sharing.
- Organizations employee-driven communication.

• **General Public** – open blogging and discussion platform.

User Stories:

- **As a blogger:** I want to **register/login securely** so that I can manage my blog posts.
- As a blogger: I want to create blog posts with Markdown support so that I can format my content professionally.
- As a blogger: I want to edit or delete my blogs so that I can update or remove content as needed.
- As a reader: I want to view all blogs so that I can read and explore different topics.
- As a reader: I want to comment on blogs so that I can provide feedback or ask questions.
- As a registered user: I want to save drafts so that I can continue writing later.
- As an admin: I want to moderate blogs and comments so that the platform remains safe and appropriate.

Stakeholder Stories:

- Project Owner: I want to ensure the platform is secure and functional so that users
 have a reliable experience.
- Developer: I want to build the backend using Node.js, Express, MongoDB, and JWT so that the system is scalable and secure.
- UI/UX Designer: I want to create intuitive wireframes and layouts so that users can navigate easily.

- Content Moderator: I want to review and approve posts and comments so that inappropriate content is prevented.
- Educational Institution: I want to use the platform for knowledge sharing so that students and faculty can share blogs internally.
- Organization: I want to track and maintain blogs for internal communication so that employees can stay updated.
- Sponsor/Investor: I want to see a professional, functional platform so that my
 investment is well-utilized.

MVP (Minimum Viable Product) Features:

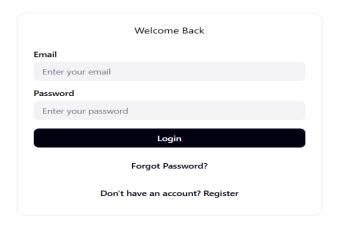
MVP Features for Blogging Platform

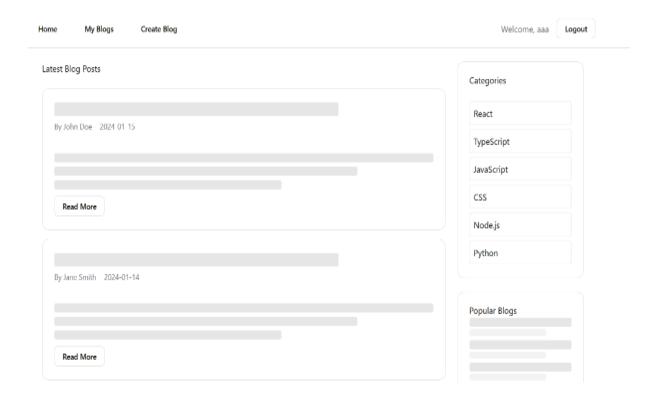
- Node.js & Express.js Backend: Provides a scalable, non-blocking server for handling user requests.
- MongoDB Database with Mongoose: Efficiently stores blogs, users, and comments.
- **JWT Authentication:** Ensures secure login and protects blog creation/editing routes.
- CRUD Operations for Blogs: Users can Create, Read, Update, and Delete blogs via REST APIs.
- Markdown Support: Bloggers can format their content professionally with headings,
 bold/italic text, links, and lists.
- Comment System: Readers can comment on blogs using a nested schema or separate collection.

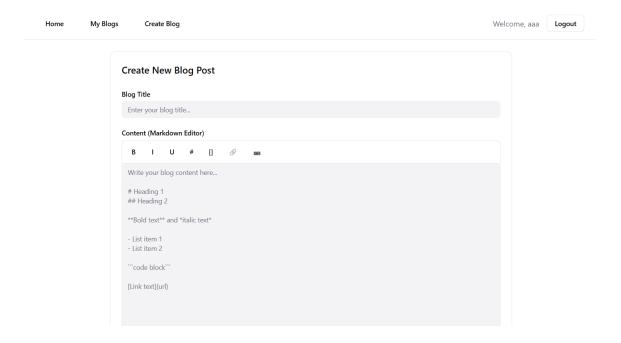
- Draft Saving Feature: Users can save blogs as drafts and continue editing later.
- Responsive Design: Platform works well on both desktop and mobile devices.

Wireframes & API Endpoint List:

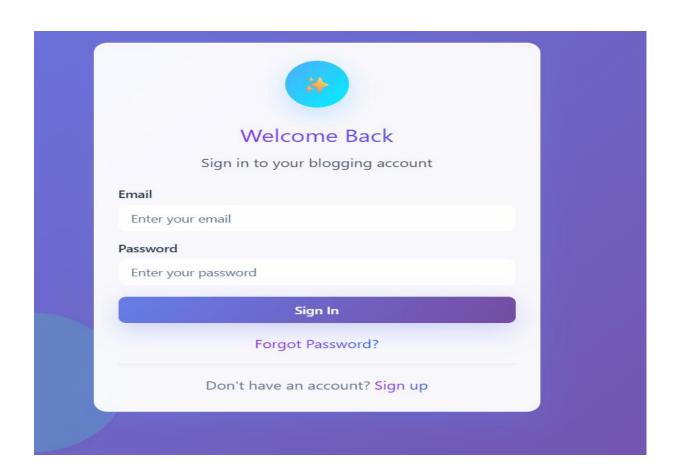
Mid-Fidelity (Mid-Fi) Wireframes:

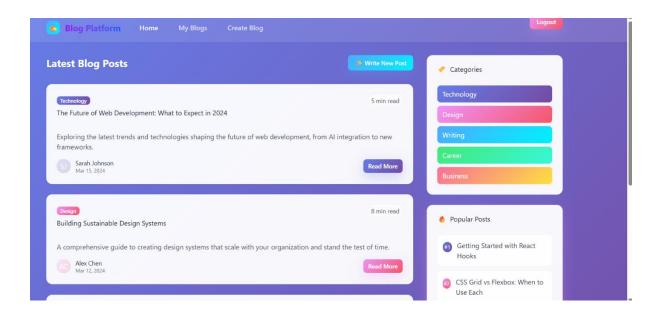


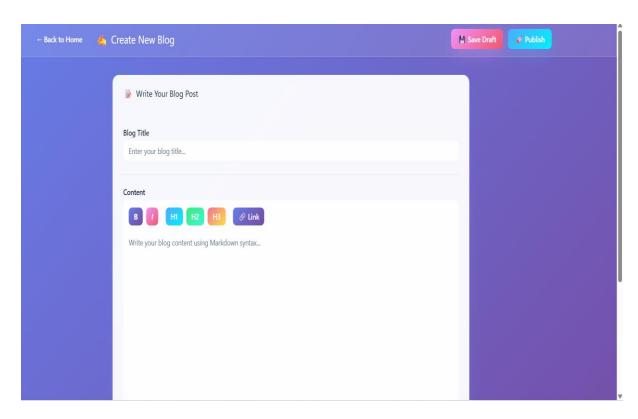




High-Fidelity (Hi-Fi) Wireframes:







API Endpoint List:

Method	Endpoint	Description
POST	/api/auth/register	User registration
POST	/api/auth/login	User login, JWT returned
GET	/api/blogs	Get all blogs
POST	/api/blogs	Create new blog (Node.js + MongoDB)
PUT	/api/blogs/:id	Update blog
DELETE	/api/blogs/:id	Delete blog
POST	/api/blogs/:id/comments	Add comment
GET	/api/blogs/:id/comments	Get comments for a blog

Acceptance Criteria:

User Authentication

- Users must register and login successfully.
- JWT token must be returned on login to access protected routes.

Blog Management

- Users (authors) can create, edit, and delete their own blogs.
- Blogs must support **Markdown formatting** for headings, lists, and links.
- Drafts can be saved and resumed later.

Blog Viewing

- Readers can view all blogs.
- Individual blogs show title, author, date, content, and comments.

Comments

- Users can add comments to blogs.
- Comments are displayed in chronological order below each blog.

Authorization & Security

- Only authenticated authors can edit or delete their blogs.
- Protected routes cannot be accessed without a valid JWT token.

Responsiveness

• Platform must work on desktop and mobile devices.

Admin Moderation

• Admin can **moderate blogs and comments** to prevent inappropriate content.