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Technology

DEPARTMENT: Computer Science and Engineering

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Completed the project named as Phase 5

TECHNOLOGY PROJECT NAME: IBM-FE-Blog Site with

Comment Section

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IBM-FE-Blog Site with Comment Section

Phase 5 Report

1. Final Demo Walkthrough

Overview:

DevBlog is a modern blogging platform built for developers to share knowledge, insights, and tutorials. It provides user authentication, post creation, comment sections, trending posts, search and filter options, and a save/bookmark feature.

Key User Roles:

- Guest Users: Can view posts, search, and read comments.
- Registered Users: Can create posts, comment, save blogs, and manage their profile.

Walkthrough Steps:

1. Home Page:

Displays all blog posts with featured/trending highlights. Users can browse posts or use filters.

2. Login / Signup Page:

Allows users to register or log in securely using Supabase Authentication.

3. Create Post:

Authenticated users can create and publish new blog posts with title, description, tags, and cover image.

4. Search & Filter:

Search bar helps users find posts by keywords, tags, or authors.

5. Trending Section:

Displays top posts based on engagement metrics like likes and comments.

6. Comment Section:

Users can comment on posts, reply to others, and discuss ideas.

7. Save / Bookmark Feature:

Users can save favorite posts for quick access later.

8. Logout:

Ends the user session and redirects back to the homepage.

2. Project Report

Project Objective:

To design and develop an interactive blogging platform that enables developers to share and engage with content easily.

Motivation:

Developers often need a clean, ad-free, and open-source environment to write blogs, share tutorials, and interact with a technical audience. DevBlog bridges this gap.

Scope:

- Secure authentication (login/register)
- CRUD operations for blog posts
- Comment and save features
- Trending post algorithm
- Fully responsive UI

Modules:

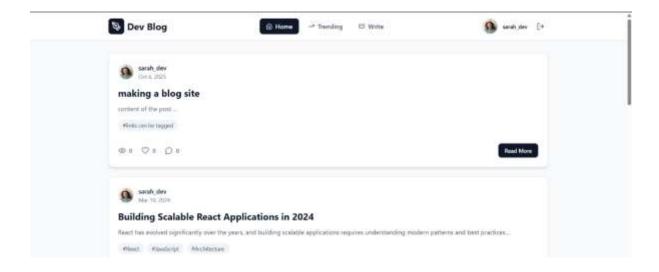
- 1. **Authentication Module** Login, Register, Logout via Supabase.
- 2. **Blog Management Module** Create, Read, Update, Delete blog posts.
- 3. **Comment Module** Real-time comment system using Supabase database.
- 4. **Search & Filter Module** Keyword and tag-based search functionality.
- 5. Save/Bookmark Module User-specific saved posts collection.
- 6. **Trending Module** Ranks popular posts based on likes/comments.

3. Screenshots / API Documentation

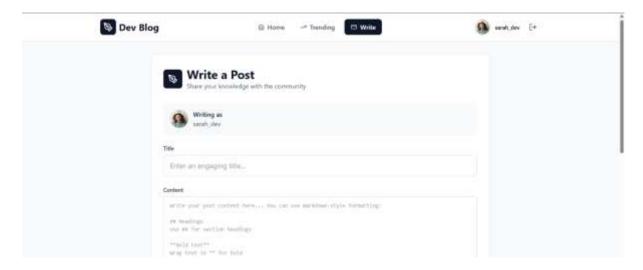
Login Page



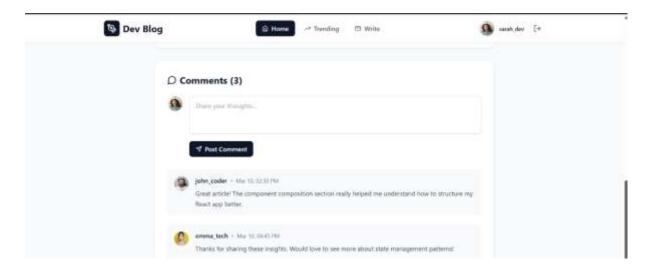
Home Page



Create Post

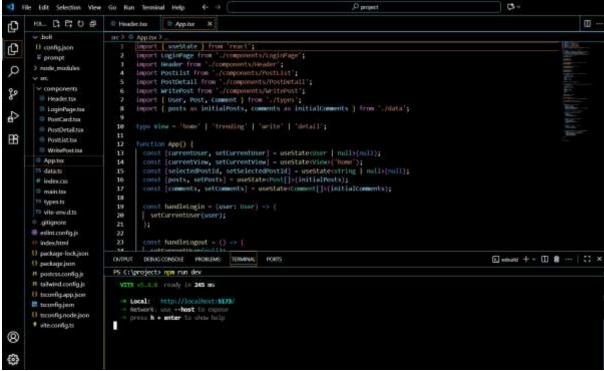


Comment Section



API Documentation





```
**Base URL:** `http://localhost:5173/api`
| Endpoint | Method | Description | Request Body | Response |
|-----|-----|-----|
| '/auth/register' | POST | Register a new user | '{ "username": "string", "email": "string",
"password": "string" }`|`200 OK` - Returns user object |
'/auth/login' | POST | Login user | `{ "email": "string", "password": "string" }` | `200 OK` -
Returns JWT token
| '/posts' | GET | Get all posts | - | Array of post objects |
| '/posts' | POST | Create new post | '{ "title": "string", "content": "string", "tags": ["string"] } ' |
'201 Created' - Returns created post
| '/posts/:id` | PUT | Update a post | `{ "title": "string", "content": "string", "tags": ["string"] }` |
'200 OK' - Returns updated post |
| '/posts/:id' | DELETE | Delete a post | - | '200 OK' - Post deleted |
| '/posts/:id/comments' | POST | Add comment to post | '{ "text": "string" }' | '201 Created' -
Returns created comment |
| '/posts/:postId/comments/:commentId' | PUT | Update comment | `{ "text": "string" }` | `200 OK`
- Returns updated comment
| '/posts/:postId/comments/:commentId' | DELETE | Delete comment | - | '200 OK' - Comment
deleted |
| '/posts/trending' | GET | Get trending posts | - | Array of post objects |
```

4. GitHub README & Setup Guide

4.1 README Structure

- 1. Project Title
- 2. Description
- 3. Features
- 4. Technologies Used
- 5. Installation / Setup
 - o git clone <repo url>
 - o npm install
 - o npm start
- 6. Usage Instructions
- 7. Screenshots
- 8. Demo Link / Deployed URL
- 9. License

5. Final Submission

DEMO LINK:

 $\underline{https://drive.google.com/drive/folders/17MnaZJhBP7niGV9FilcbNHQ8qyyitnxR?usp=drive_link}$

Github id's

NAME	GITHUB ID
Aanandha ruban MRK	https://github.com/aanandharuban
Gokularam M	https://github.com/gokularam12/gokularamrm
Mahesh MSK	https://github.com/Mahee0117
Sanjay Karthi RP	https://github.com/sanjaykarthirp
Aathish Rao AB	https://github.com/Aathish14