

## Project Description: Hasan Mini Blog

### Overview

**Hasan Mini Blog** is a simple blogging application built using **vanilla JavaScript** (no frameworks), HTML, and CSS. The app functions as a lightweight platform allowing users to sign up, log in, update their profile, write, view, and delete posts, as well as browse a news feed of posts by all users. All data is handled client-side with **JavaScript arrays**—making it perfect for learning and prototyping single-page applications or user authentication flows.

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### Features

#### 1. User Registration & Authentication

- **Sign Up:** New users can create an account by entering their name, email, unique username, and password (with confirmation).
  - Email and username must be unique.
  - Passwords must match on entry.
- **Log In:** Existing users can log in with their username and password.
  - Successful login displays a welcome alert and user-specific menu.
  - Incorrect credentials show an error alert.

#### 2. Profile Management

- **Profile View:** Users can view their name, email, and username.
- **Edit Profile:** Options to edit name, email (must be unique), and password (with confirmation).
- **Live Updates:** Profile details update instantly on change.

#### 3. Posting Functionality

- **Create Post:** Authenticated users can write a new post with a title and content.
  - Posts are time-stamped with creation date and displayed in reverse chronological order (newest first).
- **View Own Posts:** Users can view their post history and delete posts individually.
- **News Feed:** Shows all posts from all users—each with author, title, date, and content.

## 4. Navigation and UI

- **Menu System:** Multiple UI states managed by showing/hiding HTML containers (divs) for each screen (menu, signup, login, feed, posting, profile, editing).
  - Navigation between screens is handled by simple JS functions.
- **Alerts:** Provides feedback on actions (success, errors, confirmation) using JS pop-up alerts.
- **No Page Reloads:** The entire experience is a client-side single-page application.

## 5. Session Handling

- **Current User:** Tracks logged-in user for session-specific operations and access control.
  - **Logout:** Clears the session and returns to the main menu.
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## Technical Approach

- **Frontend Only:** No backend, database, or server requests involved. All data (users and posts) is stored in JavaScript arrays (user, posts).
  - **DOM Manipulation:** UI updates through direct manipulation of DOM elements and dynamic generation of HTML.
  - **Security:** Minimal security—passwords are stored in plain arrays, intended for demonstrations rather than production use.
  - **Modularity:** All functionality handled with clean, modular JS functions for each action (sign up, login, post, edit, delete).
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## Use Cases

- **Learning Resource:** Ideal for understanding user authentication, UI state, and CRUD operations in vanilla JS.
  - **Prototype:** Rapidly test basic blog features before adding backend or advanced frameworks.
  - **Showcase:** Demonstrate SPA navigation and client-side interactivity without dependencies.
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## Limitations

- **Data Persistence:** All data is lost on page reload.
  - **No Real Security:** Not suitable for production as credentials are unencrypted and accessible on the client.
  - **Single Session:** Only one user can be logged in at a time.
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## Conclusion

Hasan Mini Blog provides a fully interactive blogging experience purely in the browser, making it an excellent teaching tool or starter project for more advanced blogs. It covers basic account flows, profile management, and user-generated content—all the essentials of a typical social app, built with a clear, readable structure.