Blog Project - Documentation

Project Structure

```
BlogProject/
- public/
                   # Public static files
├---- css/
   ___style.css
                     # Custom styling
   -images/
                     # UI icons
   ├── comment.jpg
   ⊦— edit.jpg
     —logo.jpg
   -uploads/
                     # Uploaded files/images
                   # EJS template files
-views/
  — pages/
   ├── index.ejs
                     # Homepage
                      # Blog article listing
   ├── articles.ejs
      — details.ejs
                     # Single article page with comments/edit
      – newpost.ejs
                       # Form to add a new blog post
   - partials/
  ├── header.ejs
                     # Reusable header
  ├── footer.ejs
                    # Reusable footer
  — menu.ejs
                     # Sidebar/menu
 app.js
                  # Main server-side app (Node.js + Express)
 - README.md
                       # Project info and setup instructions
```

Core Functionalities

View Blog Articles

- Lists all published blog posts.
- Each article links to a detailed view page.

Add New Blog

- Accessible via a form (newpost.ejs)
- Uses Quill editor to enter rich HTML content.
- Tags are added as comma-separated values.

Edit Blog

- Opens a modal with pre-filled data.
- Uses Quill editor again for in-place rich editing.
- Submits changes back to the server.

Post Comments

- Each article has a modal to submit comments.
- Comments are displayed below the blog content.
- Uses HTMX to update the comment list dynamically without refreshing the whole page.

Uploads and Images

- uploads/ folder stores any attached content.
- Static assets like icons are inside public/images.

Technologies Used

Technology	Purpose
Node.js	JavaScript runtime for server-side logic
Express.js	Web framework to handle routing and middleware
MongoDB	NoSQL database to store blog posts, comments, and tags
Mongoose	ODM (Object Data Modeling) tool to interact with MongoDB using schemas
EJS (Embedded JavaScript)	Templating engine for rendering dynamic HTML pages
Bootstrap 5	Responsive CSS framework for layout and design
нтмх	JavaScript library to enable AJAX-like behavior via HTML attributes
Quill.js	Rich text editor for creating and editing blog content
Express-fileupload	Middleware to handle file uploads (images/documents)
css	Custom styles for UI customization