

Hack4Impact Org Docs - Nicholas

<https://github.com/hack4impact-utk/h4i-utk-org-docs>

Target Audience: All Hack4Impact Developers, Leads, and PMs

Objective: Build a centralized documentation platform for the chapter to store project handovers, tech stack guides, PRDs, and onboarding materials. This prevents the "lost Google Doc" problem and preserves institutional knowledge.

1. User Personas

- **User (General Member):** Browses and searches the knowledge base to learn how to set up their dev environment or read project specs. They have **Read-Only** access globally, but can bookmark their favorite guides and leave feedback on documents.
- **Admin (E-Board / Tech Leads):** Has **Read/Write** access. They are responsible for writing, editing, deleting, and categorizing all documentation to keep the knowledge base clean and accurate.

2. Core Features (MVP)

- **Authentication & Simple Role-Based Access Control (RBAC):**
 - Secure login via NextAuth
 - Two roles: `User` (Read) and `Admin` (Read/Write/Delete).
 - UI dynamically hides "Create Document" and "Edit" buttons for standard users.
- **Markdown Editor & Viewer:**
 - Admins write documents using a browser Markdown editor (e.g., `react-markdown` and `uiw/react-md-editor`).
 - The frontend renders the Markdown into clean, readable typography with code-block syntax highlighting.
- **Personalized User Dashboard (Bookmarks):**

- Users can click a "Bookmark" or "Star" icon on any document.
- Their homepage displays a personalized grid of their bookmarked documents for quick access (e.g., saving the "Next.js Setup Guide" while they learn it).
- **Document Feedback System:**
 - At the bottom of every document, Users see a prompt: "Was this helpful? 👍 / 👎".
 - Admins have a dashboard view showing document ratings, helping them identify which guides are outdated or confusing and need a rewrite.
- **Search & Categorization:**
 - Docs are organized into "Spaces" or "Folders" (e.g., *Onboarding*, *Tech Stack Guides*, *Project Specs*).
 - A prominent search bar using Drizzle/Postgres `ILIKE` queries allows users to quickly find docs by title or content.

3. Stretch Goals (If time permits)

- **Table of Contents Generation:** Auto-generate a sticky sidebar Table of Contents based on the Markdown headers (H1, H2, H3) inside the document being viewed.
- **Version History:** Save previous iterations of the markdown content in the database. Allow Admins to view past versions and rollback if they accidentally delete a crucial section.
- **Export to PDF:** Add a button that allows Users to download a beautifully formatted PDF version of the documentation for offline reading.