

Product Requirements & Specification Document

Project Name

EduNotes - Note Taking App

Description

EduNotes is an open-source, web-based note-taking application designed for students. It enables users to create, edit, organize, and manage notes with support for media attachments and tagging. The app is built using React, JavaScript, HTML, CSS, and Tailwind CSS.

1. Goals & Objectives

Goal	Description
Simple Note Management	Allow students to easily create, edit, and delete notes
Media Support	Enable embedding images and links in notes
Tagging & Organization	Support tagging and searching/filtering notes
Open Source	Codebase is public and community-contributable
Responsive UI	Accessible on desktop and mobile devices

2. User Stories

ID	As a	I want to	So that
US1	Student	Create, edit, and delete notes	I can manage my study materials
US2	Student	Attach images/links to notes	I can enrich my notes
US3	Student	Tag notes with keywords	I can organize and filter notes
US4	Student	Search notes by text or tag	I can quickly find information
US5	Student	Use the app on any device	I have access anywhere

3. Functional Requirements

ID	Requirement
FR1	Users can create, edit, and delete text notes
FR2	Users can attach images (via upload or URL) and hyperlinks to notes
FR3	Users can assign, edit, and remove tags from notes
FR4	Users can filter and search notes by text and tags



FR5	Notes are listed in a scrollable, responsive interface
FR6	All data is stored locally in the browser (localStorage)
FR7	The app is fully responsive (desktop/mobile)
FR8	The codebase is open-source and documented

4. Non-Functional Requirements

ID	Requirement
NFR1	Fast load times and smooth UI interactions
NFR2	Accessible (WCAG 2.1 AA compliance)
NFR3	Minimalist, distraction-free design
NFR4	No user authentication required
NFR5	All features work offline (PWA optional)

5. Technical Specifications

Area	Specification
Frontend	React (functional components, hooks)
Styling	Tailwind CSS, custom CSS as needed
State Mgmt	React Context or useState/useReducer
Storage	Browser localStorage
Media Upload	HTML5 File API, image preview
Search/Tags	Simple text search, tag-based filtering
Build Tools	Vite or Create React App
Testing	Manual testing, basic unit tests (Jest/RTL)
Deployment	GitHub Pages or Netlify

6. UI/UX Requirements

Page/Component	Requirements
Notes List	List of notes, search bar, tag filter, create note button
Note Editor	Rich text area, image/link embed, tag input, save/cancel/delete actions
Tag Management	Add/remove tags, display tag chips
Responsive Layout	Mobile-friendly navigation, adaptive components
Accessibility	Keyboard navigation, ARIA labels, color contrast



7. Out of Scope

- · User authentication or cloud sync
- Real-time collaboration
- Advanced rich text formatting (beyond bold/italic/lists)
- Third-party integrations

8. Acceptance Criteria

- Users can create, edit, and delete notes
- Users can attach images and links to notes
- Users can tag notes and filter/search by tag or text
- All data persists in localStorage
- App is responsive and accessible
- Codebase is open-source and documented

9. Milestones & Timeline

Milestone	Description	Target Date
Project Setup	Repo, tooling, base structure	Week 1
Core Note Features	CRUD notes, localStorage	Week 2
Media & Tag Support	Image/link embed, tagging/filter	Week 3
Responsive UI & Testing	Mobile layout, accessibility, tests	Week 4
Documentation & Release	README, open-source release	Week 5

10. Open Questions

- Should PWA/offline support be included in MVP?
- · What image size limits should be enforced?
- Should export/import of notes be supported in future versions?

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