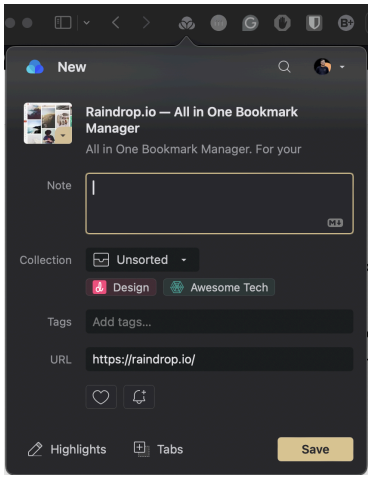
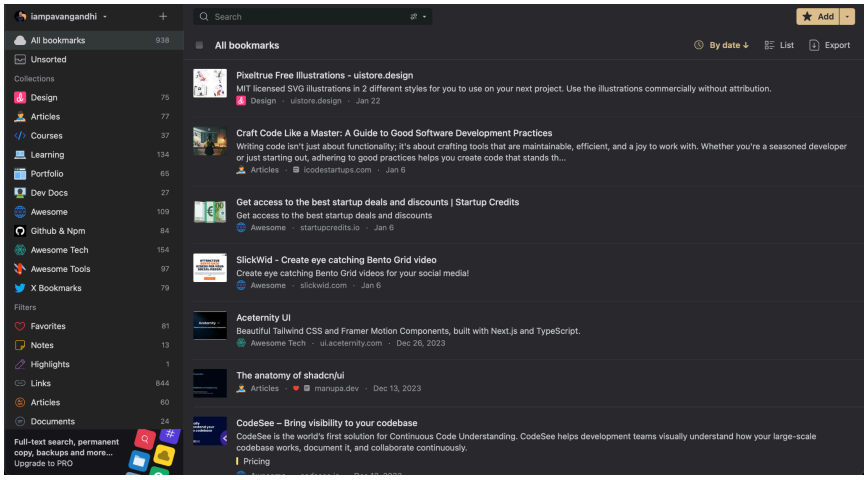
Problem Statement: AI-Enhanced Bookmark Manager

Develop a full-stack application that has a Chrome Extension **(40 Points)** and a Web Application **(60 Points)** for bookmark management, featuring AI-based enhancements for sorting, searching, and recommending content **(Bonus 20 Points)**. This application should provide a seamless experience in managing many bookmarks across multiple devices with intelligent features to improve user engagement and productivity.

Checkout: Raindrop.io
You can use that as a reference for the problem statement and also take inspiration for design & functionality

Here are screenshots of the extension UI and platform UI





Tech Stack Should be HTML, CSS, JSS, React/Next, Nodejs, Express/Fastify, Any Database. You can use any NPM Package or Library You Want

Main tasks (100 Points)

Chrome Extension Development

The ability for users to bookmark web pages directly from Chrome.
Features to organize bookmarks into customisable folders or categories.
An intuitive user interface for managing bookmarks within the extension.
Reference: https://www.freecodecamp.org/news/building-chrome-extension/

Web Application Development

A web platform where bookmarks are accessible and manageable from any device.
Synchronization of bookmarks between the Chrome Extension and the web platform.
User account creation for personalised bookmark management (Also Implement User Authentication)

Suggested Database Model Parameters (Just for reference)

Bookmark ID
URL
Title
Folder/Category
User ID
Timestamp
Tags (for AI-enhanced features)

Advanced tasks (Bonus 20 Points)

AI-Based Features Implementation Suggestions

1. AI-driven categorization of bookmarks based on content analysis and user preferences.
2. Smart search functionality within the Chrome Extension and web application uses natural language processing to understand user queries.
3. AI-based recommendation system suggesting related web pages or resources.

(You can use any LLM or AI APIs of your choice like OpenAI GPT, Gemini, etc)

Marking and Point System (Max 120 Points)

1. 100 Points for Main Task
    a. 40 for Chrome Extension (**30 Points for Functionality and 10 Points for UI**)
    b. 60 for Web Platform (**40 Points for Functionality & 20 Points for UI**)
2. 20 Points for Advanced Task (**For Functionality & UI**)

***No Points for UI If functionality is not working or the requirements are not completed

Submission guidelines

1. Deploy your code and submit the deployed link using whatever is accessible for deployment render, railway, AWS, Azure, digital ocean, vercel, netlify, etc
2. Provide access to a live demo or hosted web application version and a link to install the Chrome Extension.
3. Commit and Push your code into Github Include a readme explaining the complete task with screenshots. and submit the Github Link
4. Submit a video demo highlighting the key features, AI-based enhancements, and user interface of both the Chrome Extension and the web application.
5. No Submission will be accepted without a) **Deployed Website Link**, b) **Github Link** c) **Video Link**