

Notes App - MVP & detailed features

Notebook: New Web Development Project

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Features of MVP:

1. Authentication & Authorization
2. Uploading PDF documents
3. A Home Page where you can get all the notes of this site.
4. A Single Page where you can look information about a note.
5. Adding notes to cart
6. Searching notes on different criterias (subject, author etc..)
7. Reviewing notes
8. Buying notes
9. Allowing user to change his details
10. Admin Functionalities

Detailed:

1. **Authentication & Authorization:** User can access the home page and the single page without signing up. However to download or upload books they have to make an account. For authentication O-Auth is a good (O-Auth is free?) solution. Whatever authentication solution may be, it is necessary to verify the email of the user as this will be the primary key of the user database.
2. **Uploading PDF documents:** When a user is logged in, he may upload PDF documents. This PDF can either be his notes or even books. When uploading a PDF document the user will be taken to a form where he will be prompted to fill some details. These will be the title of the PDF, the description(?) of PDF, subject to which the PDF belongs, is this a note or a book, its price. We will also have to capture an image representing the PDF document, however it will not be reasonable to prompt the user for this image, we have to build a solution which will do it automatically. User will then click on a button which will submit this form to the API and this will hopefully store the form details in the database. Where do we store the document though?
3. **Home Page:** This home page will contain a list of the notes and will behave as the feed. A given note will have will have the title, image, subject(s), number of reviews and average rating. When the user reaches the end of the feed the server will make the request and will populate the feed so that it appears as a infinite feed.
4. **Single Page:** A single page will contain the information about a note. In addition to the properties above it will show a preview of the document, the reviews for the document, and other information such as number of pages, number of downloads,

who uploaded it and when etc. This page will also have buttons that will allow the user to add this note to the cart, purchase this book or leave a review.

5. **Cart functionality:** The user will be able to add notes to the cart. There will also be a page which will show all the items added to the cart. Imagine the Amazon Cart.
6. **Searching Functionality:** Users will be able to search for notes based on some keywords on a search bar which will be present on all the pages. These keywords include the note, subject, uploader etc.
7. **Reviewing Notes:** Users will be able to review notes which they have downloaded by hitting the review button on the note page. They will add a rating and the description (this is optional) of the review. Users can also edit their reviews. A particular review will show the name of the reviewer, the rating, description, last they edited the review.
8. **Buying Notes:** Users will be able to buy notes on the notes page. This can be implemented by payment gateway, or by debit or credit card transactions using the STRIPE / PAYPAL / RAZORPAY API. Once the payment happens the user will be able to access, download and review the note. A part of this payment will be sent to the uploader of the note after some time. There will also be an option to make the note free. There should be a page where an user can see all the notes that he has bought.
9. **User Details:** User can go on this page and then change some of its details.