# **DevRev ProGrad Hiring Drive**

# Round - II (Task Submission)

# **Front End:**

Build a library management page with the following modules,

* + An aesthetically pleasing and optimised loading animation
  + New user signup and login, using Proper authentication and sessions (Sign in with social media, Email and mobile number verification gets extra brownie points)
  + Users should be able to see the list of books, preferably use an actual endpoint (API) as a data source for books
    - Instead of loading all the results on the page, perform an optimised pagination (infinite scrolling with lazy loading)
  + A well built search bar, with suggestions (like Google Search, YouTube) that suggests and searches based on all the fields like Book name, Author name, Genre, Year of publishing, etc
  + There should be an exclusive way of indicating the ***availability*** of the books, and the ***number of available copies***, along with the previously mentioned fields.
  + Users should be able to filter and sort the list of books based on Title, Author, Subject and Publish - date
  + You are expected to show the count of books, upon every search results, and upon every filtering
  + Implement a cart feature, upon adding books to the cart, the user will be able to check out and rent them. This should reflect in the ***availability*** and ***number of copies*** fields.

***Expected tech stack is HTML, CSS for UI, JS is more preferred for implementing the functionality. (Usage of ReactJS is appreciable).***

Don’t stop using your creativity to improve this web app.

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# **Back End:**

1. **Flight Ticket Booking**

Create a web application for flight ticket booking. Use any tech stack for the backend and db. A basic UI made outta HTML and CSS is expected. Submissions with a plain console based CRUD app won't be entertained.

***Type of Users***

1. User
2. Admin

***User Use Cases***

* Login
* Sign up (with apt data validations)
* Searching for flights based on date and time
* Booking tickets on a flight based on availability (assuming the default seat count is 60)
* My Booking -> to list out all the bookings made by that user
* Logout

***Admin Use Cases***

* Login (Seperate login for Admin)
* Add Flights
* Remove flights
* View all the booking based on flight number and time

**2. Covid Vaccination Booking**

Create a web application for covid vaccination booking. Use any tech stack for the backend and db. A basic UI made outta HTML and CSS is expected. Submissions with a plain console based CRUD app won't be entertained.

***Type of Users***

1. User
2. Admin

***User Use Cases***

* Login
* Sign up (with apt data validations)
* Searching for Vaccination centre and working hours
* Apply for a vaccination slot (only 10 candidates allowed per day)
* Logout

***Admin Use Cases***

* Login (Seperate login for Admin)
* Add Vaccination Centres
* Get dosage details (group by centres)
* Remove vaccination centres