Assignments to screened profiles

1. RESTful API Development (ETA: 4-6 hours)

Objective:
Build a simple RESTful API to manage a collection of "Books". The API should allow CRUD (Create, Read, Update, Delete) operations for books and should store data in a MongoDB database.

Requirements:

- Implement the following endpoints:
  - `POST /books`: Add a new book.
  - `GET /books`: Get all books.
  - `GET /books/:id`: Get a book by ID.
  - `PUT /books/:id`: Update a book by ID.
  - `DELETE /books/:id`: Delete a book by ID.
- Use **Express.js** for routing and handling HTTP requests.
- Use **MongoDB** as the database for storing book data (can be a local or cloud-based instance).
- The book should have at least three fields (e.g., title, author, year).
- Implement basic validation for inputs.
- Implement error handling for common issues like invalid input, missing parameters, etc.