

FarmwiseAI Pvt Ltd

Backend End Developer

RESTful API for a Bookstore Management System

Objective: Develop a RESTful API using Python (Flask/Django or any other framework) for managing a bookstore. The system should allow users to add, retrieve, update, and delete book information.

Requirements:

1. **Database Design:** Design a database schema to store book details (e.g., title, author, ISBN, price, quantity).
2. **API Endpoints:** Create endpoints for:
 - Adding a new book.
 - Retrieving all books.
 - Retrieving a specific book by ISBN.
 - Updating book details.
 - Deleting a book.
3. **Authentication:** Implement basic authentication to restrict access to certain endpoints.
4. **Documentation:** Provide a clear documentation of API endpoints and usage.
5. **Testing:** Write unit tests for the API endpoints.

Evaluation Criteria:

- Code quality and organization.
- Effective use of the chosen framework.
- Database design and interaction.
- Handling of edge cases and errors.
- Quality of documentation and tests.

Bonus points:

1. Add authentication/authorisation to the APIs using JWT Token. This will require a login API that generates JWT Token and then a validator method/service to validate the JWT Token sent when other APIs are invoked.
2. If you use Serverless Application Model (SAM) to develop the server side components - <https://aws.amazon.com/serverless/sam/>

Output: Working code in GitHub, API Collections in Postman