API signature & Data required

- 1. Extract the zip folder and you will find the Final code folder.
- 2. Open the terminal inside of Final_code and run the below instructions
 - a. Pip install -r requirements.txt
 - b. Uvicorn main:app -reload
- 3. main.py
 - a. First it will load the .env file and look for database connection details
 - b. Then it will connect with DB to check whether books_db is available or not. If not available then it will create the database
 - c. Then it will look for all 3 tables (books, reviews and users table) and if they are not available, it will create them and ready to take the queries.

Rest API signature and required data:

1. User registration (POST method)

2. Book Summary creation & push the data into DB (POST method)

```
a. login_url = "http://localhost:8000/login/"
       login_data = {
         "user id": "user1",
         "password": "pass123"
       }
       response = requests.post(login url, json=login data)
   b. books_urll = "http://localhost:8000/books_summary/"
       data = {
              "book id": int(row["book id"]),
              "title": row["title"],
              "author": row["author"],
              "genre": row["genre"],
              "year published": row["year published"],
              "summary": row["summary"]
       headers = {"Authorization": f"Bearer {token}"}
       response = requests.post(books_url, json=data, headers=headers)
You can find the python client code in Fast api clinet code
/client books summary.py
```

```
3. Review summarization and push the data into DB(POST Method)
       a. login_url = "http://localhost:8000/login/"
          login data = {
             "user_id": "user1",
             "password": "pass123"
          response = requests.post(login_url, json=login_data)
       b. review url = "http://localhost:8000/reviews/"
       c. review data = {
             "book id": int(row["book id"]),
             "user id": row["user id"],
             "review text": row["review text"],
            "rating": int(row["rating"])
          headers = {"Authorization": f"Bearer {token}"}
          response = requests.post(review url, json=review data, headers=headers)
   You can find the python client code in Fast_api_clinet_code
   /client review.py
4. Book Recommendation API (GET Method)
       a. login url = "http://localhost:8000/login/"
          login data = {
            "user_id": "user1",
             "password": "pass123"
          }
          response = requests.post(login_url, json=login_data)
   recommendation url = "http://localhost:8000/recommendations/"
   headers = {"Authorization": f"Bearer {token}"}
   response = requests.get(recommendation_url, headers=headers, params={"n": 5})
   Note: it will get the recommendations for logged in user
   You can find the python client code in Fast api clinet code
   /client recommendations.py
5. Get All books from the Database (GET method)
       a. login url = "http://localhost:8000/login/"
          login data = {
             "user_id": "user1",
             "password": "pass123"
          response = requests.post(login_url, json=login_data)
   get books = "http://localhost:8000/books/"
   headers = {"Authorization": f"Bearer {token}"}
   response = requests.get(get_books, headers=headers)
   You can find the python client code in Fast api clinet code
```

/client all endpoints.py

```
6. Get All books from the Database (GET method)
       a. login url = "http://localhost:8000/login/"
          login data = {
            "user id": "user1",
             "password": "pass123"
          }
          response = requests.post(login url, json=login data)
   get books = "http://localhost:8000/books/{book id}"
          data = { 'book id':234}
   headers = {"Authorization": f"Bearer {token}"}
   response = requests.get(get books,data=data, headers=headers)
   You can find the python client code in Fast api clinet code
   /client all endpoints.py
7. Delete a book from the Database (DELETE method)
       a. login url = "http://localhost:8000/login/"
          login data = {
             "user id": "user1",
             "password": "pass123"
          }
          response = requests.post(login url, json=login data)
   delete book = "http://localhost:8000/books/{book id}"
          data = { 'book id':234}
   headers = {"Authorization": f"Bearer {token}"}
   response = requests.delete(delete book, data=data, headers=headers)
   You can find the python client code in Fast_api_clinet_code
   /client all endpoints.py
8. Add a review for a book in the Database (POST method)
       a. login url = "http://localhost:8000/login/"
          login data = {
             "user_id": "user1",
             "password": "pass123"
          }
          response = requests.post(login_url, json=login_data)
   add review = "http://localhost:8000/books/{book id}/reviews"
          data = {
             "book id": 1,
             "user id": 'user3',
            "review_text": "This is a testing review.",
             "rating": 5
          }
   headers = {"Authorization": f"Bearer {token}"}
   response = requests.post(add_review,data=data, headers=headers)
   You can find the python client code in Fast api clinet code
   /client all endpoints.py
```

```
9. Get a review for a book from the Database (GET method)
```

10. Get a review for a book from the Database (GET method)