

Report File

- The main.py file which is inside the mad1 folder is used to start the server.
- There is a Webapp folder inside mad1 folder which contains other important files like models, components for api and auth and init file.
- The init file in my website has all configuration related code and the database initialization is also used to make the Webapp folder as a package so that the main file can use it.
- The database file inside the Webapp folder and our init file automatically creates our database file if it does not exist.
- There is a template folder inside the Website folder which has all jinja templates and there is a base.html template which is a parent template for all the other templates.
- Now my models has mainly 4 tables:
 1. User table:

It has id, email, password, name and isadmin as the attributes and it has a venues, bookings attributes to show relationship with the Venues and Booking tables. The default for isadmin is false for every user and it is true only for the admin it is adjusted by using the db browser only. I did not directly stored password in my database for security issues but stored it in the form of hash
 2. Category table:

It has id, name as attributes of a Category , categorys attributes are used for foreign key and establishing the relationship with the table product.
 3. Product table:

It has id, name, expirydate, price, quantity as the attributes bookings are the attributes used for foreign key and establishing relationship with the table bookings.
 4. Userbook table:

It has id, category name, show name, quantity, total email as the attributes and product_id are used to establish relationships with the product table.
 5. Confirmbooking table:

It has id, category name, show name, quantity, total, overalltotal.
- I used flashes which come with the flash and used them for validation testing. For example, a user can only see the bookings page if he is logged in or otherwise he has to register first. There are certain validations for registration like name and other fields should not be empty and email id should not be already existing in the database if it exists then it will flash that user already exists.
- The auth file has all the components required for authentication purpose that is:
 1. Login
 2. Logout
 3. Signup
 4. Createcategory
 5. Edit category

6. Delete Category
7. Create product
8. Edit product
9. Delete product
10. adminmain
11. Usermain
12. Bookings
13. Cart
14. searching

- I used blueprint in my web app so that management of all components became very easy and simple.
- There is a templates folder which has 13 templates that is:
 1. Base.html
 2. admin.html
 3. adminend.html
 4. book.html
 5. cart.html
 6. createcategory.html
 7. createproduct.html
 8. login.html
 9. signup.html
 10. Search.html
 11. Userbooking.html
 12. Userend.html
 13. Editproduct.html
- There is a requirements.txt file which specifies the libraries and packages used by this web application to run properly.
- I used Api for the CRUD operations on category and product.
- There is a search box functionality for the user to search products by category name, product name, price and expiry date.
- Booking page which has all the information of purchased products by the user.

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