

COL362: Application Project Milestone 3

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1 Github repo link

1. Using **http** : <https://github.com/IITD-COL362/The-Matrix-Mavericks.git>
2. Using **ssh** : <git@github.com:IITD-COL362/The-Matrix-Mavericks.git>

2 Set up for running project

We have made our web application using **django**. The steps to be followed for setting up django are as follow :

1. Configure and install **python3**
2. Configure and install **postgresql12**
3. Creating a virtual environment and setting up django :
 - Navigate to the directory where you want to build the application
 - `mkdir django-projects`
 - `cd django-projects`
 - `python3 -m venv env`
 - `. env/bin/activate`
 - Now we need to install django within the environment : `pip install django`
 - One more library need to be installed for running postgresql wiht django : `pip install psycopg2-binary`
 - Now our submission can be downloaded and run within the activated environment. For running the submission, enter the directory with **run.sh** and run the bash script.

3 Application front end design

We have used basic **html** and **css** templates for our front end design. We have our templates in the following directory :

- Main project directory (where there is bash script)
- Applications : **testdb** which contains most of our main functions contain many templates for our webpages, **accounts** for support for login and signup conatains their templates.

A glimpse of our front end :

Trending Page			
Today's Trending Restaurants		Today's Trending Dishes	
Restaurant Name	Number of Tracked Meals	Dish Name	Number of Tracked Meals
Saptagiti	9085	Fried chicken	647
Subway	7157	Chicken nuggets	620
Moti Mahal Delux	5444	Fried fish	617
Dominos Pizza	3728	Grilled sandwich	612
Food Hub	3664	Pizza	611
Today's Trending Meal Types		Today's Trending Cuisines	
Meal Type Name	Number of Tracked Meals	Cuisine Name	Number of Tracked Meals
Meat based	13204	American	30
Wheat based	9545	South Indian	25
Junk food	4773	Pizza	16
Vegetarian based	4300	Bakery	15
Salad based	3127	Chinese	15

Figure 1: Trending page

4 Supported transactions

Our web application supports the following transactions :

1. Logging in the portal with your **username** and signing up with a **username** not used before. After this step we enter the home page for a user where we can see the features written below.
2. Displaying profile of the user by querying from the *user_data* table.
3. Giving options to the user to update their details like *update city*, *update phonenumber* etc.
4. Displaying 3 scores of users on his **dashboard** : number of tracked meals, user score and average number of meals per day.
5. Giving option to **add a meal** to the user to record any instance of himself/herself eating a meal.
6. Showing option of **detailed statistics** to the user to check out the distribution of his meals among various types of meals till now.
7. Showing option to check out the **trending page** which shows the result of 4 queries : trending restaurant, dishes, meal types and cuisines.
8. By clicking on the restaurant name we can find all the details of the restaurant. On the page of restaurant, we get an option to checkout the **menu** of the restaurant and to **rate the restaurant**.
9. Adjacent to every dish in the restaurant's menu, we give an option to **track** a food item. In real life scenario this option corresponds to giving the link to order the food item. Clicking this button, adds the meal as **tracked meal** to the meal table.
10. further we give an option to users to enter their latitude and longitude and checkout the **closest restaurants to them**.
11. We give option to user to perform three type of searches :
 - **Search food items** by their attributes like cuisine, meal type, vegetarian or non vegetarian, nutritious values etc.
 - **Search restaurants** by their attributes like city, price, rating etc.
 - **Search restaurants based on conditions on food** items in them as well conditions on the restaurants.
12. Option to **add a restaurant**. We try to **toy a verification scenario**, we ask the user to enter a number (similar to asking a document for verification) and then check if the number is prime. If it is prime, we add the restaurant otherwise verification failed.
13. Logging out of the portal

5 Overall architecture and how the web application is linked

The following diagram shows how various web pages on our application are connected :

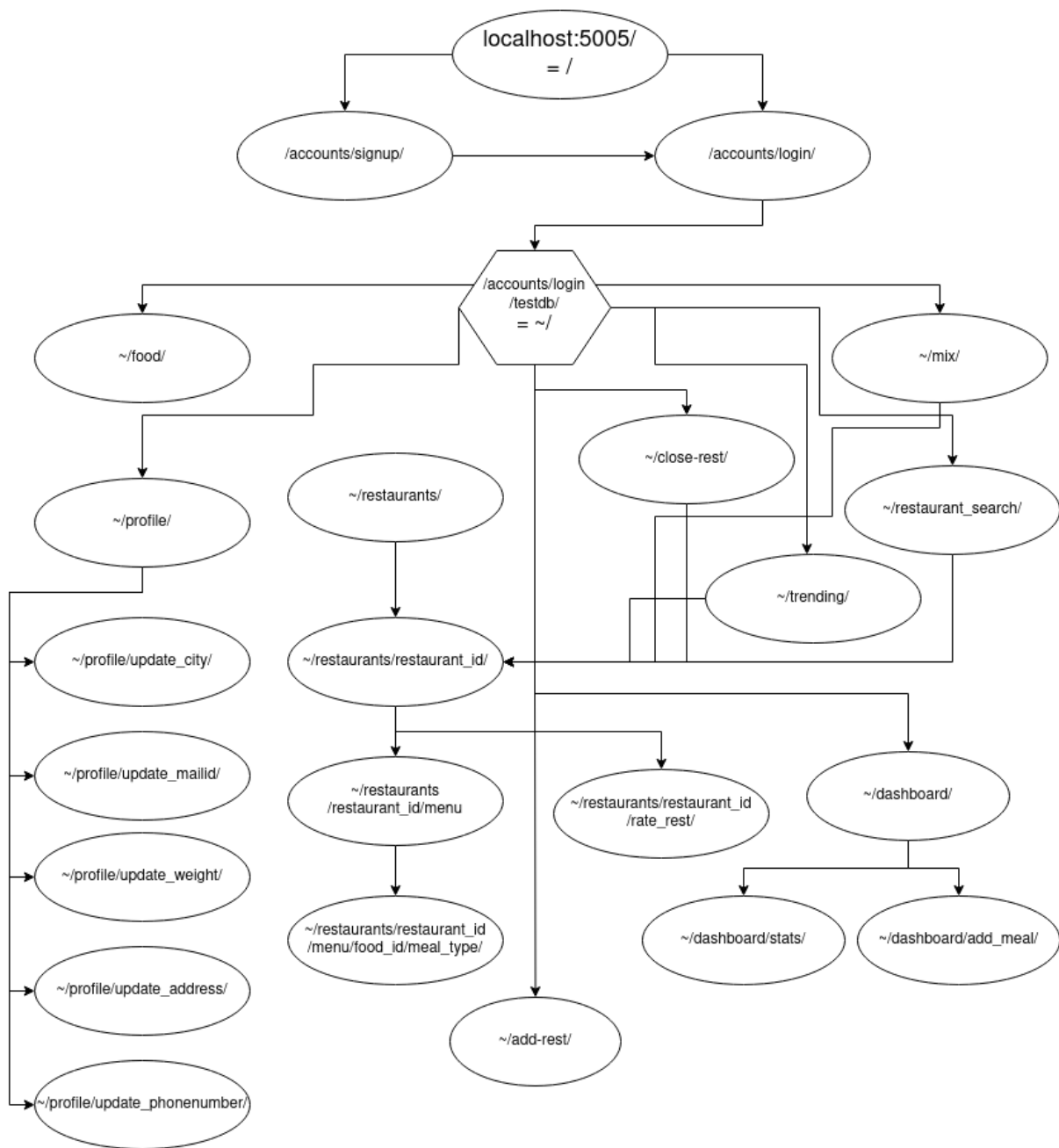


Figure 2: Site architecture

6 Demonstration scenario

We can provide a sample **Username** and **password** for logging in and checking out our site using an existing user. Other option is to sign up but in this case you will be able to use features of our website but will not truly enjoy the stats that have been built for existing users. We show a feature of our website below and there are more features which we will be showing in demo.

1. Sample user name : Vis1
2. Sample password : hehe1234

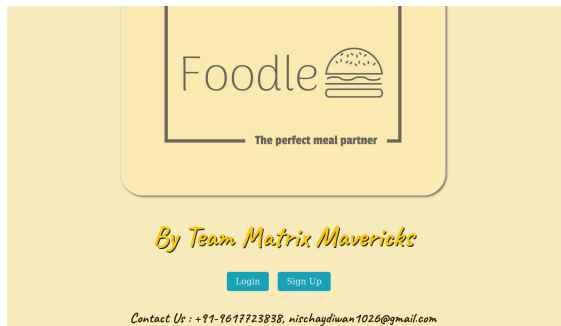


Figure 3: Site home

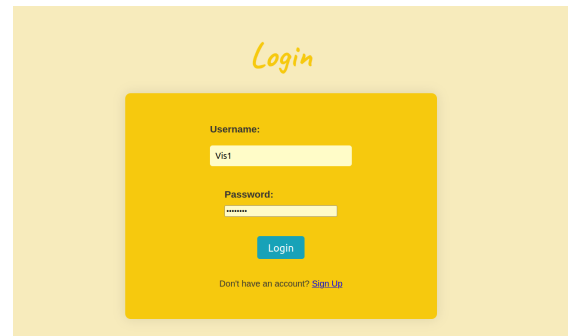


Figure 4: User login

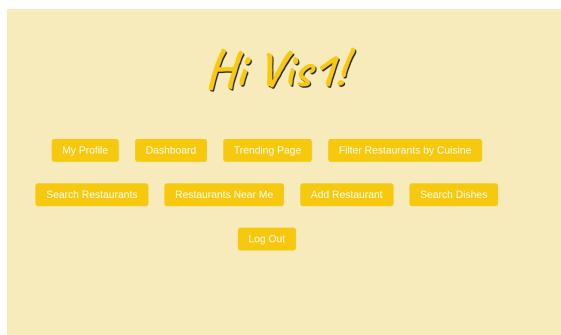


Figure 5: User home

Restaurant Name	Number of Tracked Meals
Saptasaj	9085
Subway	7157
Mul Mahal Delux	5444
Domino's Pizza	3729
Food Hub	3664

Dish Name	Number of Tracked Meals
Fried chicken	647
Chicken nuggets	620
Fried fish	617
Grilled sandwich	612
Pizza	611

Meal Type Name	Number of Tracked Meals
Meat based	13204
Wheat based	9545
Junk food	4773
Vegetarian based	4300
Salad based	3127

Cuisine Name	Number of Tracked Meals
American	30
South Indian	25
Pizza	16
Bakery	15
Chinese	15

Figure 6: Trending section

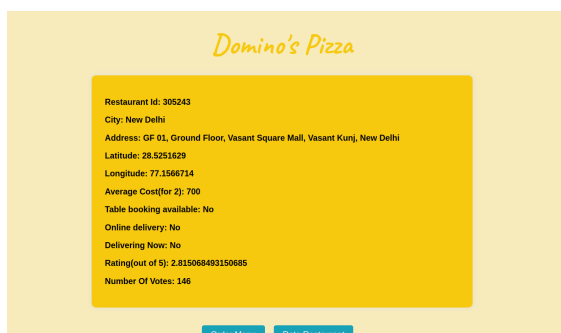


Figure 7: Enter a restaurant's page

Food Id	Food Name	Cuisine	Calorific (100g)	Fat (100g)	Carbohydrate (100g)	Protein (100g)	Indian (100g)	Meal Type	Weight (kg)	Expected Price (INR)	Track This
1164	Margherita	Pizza	237.0	9.0	27.0	10.0	423.0	Wheat based	V	250	Track
1165	Pepperoni	Pizza	300.0	12.0	30.0	15.0	550.0	Meat based	NV	300	Track
1166	Hawaiian	Pizza	265.0	9.0	28.0	13.0	400.0	Wheat based	NV	350	Track
1167	Veggie Delight	Pizza	205.0	7.0	23.0	10.0	350.0	Wheat based	V	300	Track
1168	Mexican Green Sauce	Pizza	250.0	9.0	26.0	13.0	450.0	Wheat based	V	350	Track
1169	Four Cheese	Pizza	270.0	11.0	28.0	12.0	530.0	Wheat based	V	400	Track
1170	Chicken Supreme	Pizza	275.0	11.0	24.0	15.0	500.0	Meat based	NV	400	Track
1171	Barbeque Chicken	Pizza	285.0	11.0	28.0	14.0	470.0	Meat based	NV	450	Track
1172	Meat Lovers	Pizza	320.0	15.0	27.0	16.0	630.0	Meat based	NV	450	Track
1173	Mushroom & Onion	Pizza	240.0	9.0	25.0	12.0	410.0	Wheat based	V	300	Track
1174	Pesto Chicken Pizza	Pizza	284.0	14.0	27.0	15.0	600.0	Meat based	NV	600	Track

Figure 8: Enter its menu