Project Structure:

In our project, we decided to divide our models and endpoints into two applications, users and restaurants. The Users app focuses on user-related models, such as CustomUser (which describes a customer or owner), and notifications that are invoked between users. Users' app also contains both register views for customer and owner (and their restaurant), as well as feed view, notification view, profile view, and index view, all of which interact with the user. Restaurant application focuses on models and views related to the actual restaurants themselves. Therefore, it contains models that pertain to it, such as Restaurant, Menu item, blog post, blog post likes, comments, and followers, all of which are contained in a restaurant's ecosystem. The views that are contained within the restaurant app include restaurant view (for info), menu view and menu item view for a restaurant, comment/comments view for all or individual comments of a restaurant, as well as follower and blogpost/blogpost likes view for a restaurant. Authorization checks are also made when users of a given object, such as a menu item or blog post, are changed or updated.

Apps: 2 apps

Users and Restaurants

Models: 8 models

Notification: Hritik ID: Primary Key

Recipient ID: Foreign key to a user receiving the notification Sender ID: Foreign key to a user invoking the notification

Content: The content of the notification

Read: Boolean that is true if this notification has been read

Date: The DateTime that the notification occurred

Restaurant: Hritik ID: Primary Key

Owner ID: Foreign key to a user

Name: Name of restaurant

Bio: The description of the restaurant

Address: The address

FollowersCount: The number of followers for this restaurant

Phone: Phone number

LogoURL: URL for Logo of the restaurant

CoverURL: URL for background cover image for restaurant posts

Followers: Hritik
ID: Primary Key
User ID: FK to User

Restaurant ID: FK to restaurant

MenuItem: Wolfgang

ID: Primary Key

Restaurant ID: FK To Restaurant that owns this item

Name: Name of the item

Content: Description of the item

Picture URL: Optional field for picture URL

Price: Price of item

BlogPost: Wolfgang

ID: Primary Key

Restaurant ID: FK To Restaurant

Title: Title of the post

LikeCount: The number of likes for this post

Content: Description of the post

DateTime: The date and time the post was created

BlogPostLikes: Wolfgang

ID: Primary key

BlogPostID: FK to BlogPost

UserID: FK to user

Comment: Ramel

ID: Primary Key User ID: FK to user

RestaurantID: FK to restaurant

Content: The content of the comment

Date: The DateTime that the notification occurred

CustomUser (extends AbstractUser) : Ramel

ID: Primary Key

Email: email of the user

Password: password of the user

Phone_number: phone number of the user

First_name: first name of the user Last_name: last name of the user

Profile Picture: URL to user profile picture Cover Picture: URL to cover picture for profile

Django Endpoints: 15 endpoints

APPLICATION: USER

/register/customer/: Wolfgang

POST: Registers customer users if the given information is valid and displays their info after registering as a JSON object, else returns an error for missing information

- Payloads:
 - Charfield/text: username, password1, password2, first_name, last_name, email, pfp_url, cover_url
 - Integerfield/integer: phone_number

/register/owner/: Wolfgang

POST: Registers owner user and their restaurant if the information is valid and displays restaurant and owner info after registering as a JSON object, else returns an error for missing information

- Payloads:
 - Charfield/text: username, password1, password2, first_name, last_name, email, pfp_url, cover_url, name, bio, address, logo, cover
 - Integerfield/integer: phone_number, phone

/login: Ramel

POST: Posts email and password, returns JSON object with refresh and access tokens on success, displays errors on fields otherwise

- Payloads:
 - Charfield/text: username, password

/feed/: Ramel

GET: Retrieves list of restaurants currently logged in user is subscribed to

/index: Hritik

GET: If supplied query string for search, uses that to filter restaurants based on a string. Otherwise, returns a list of all restaurants

- Payloads:
 - Q (to guery or not), type (name, item, address)

/profile: Hritik

GET: Returns currently logged in user's profile information

PUT/PATCH: Edits currently logged-in user's profile information.

- Payloads:
 - Charfield/text: username, password, first_name, last_name, email, pfp_url, cover_url
 - Integerfield/integer: phone_number

/notifications: Hritik

GET: fetch current logged in user's notifications and set them to read

APPLICATION: RESTAURANT

restaurant/<restaurant>/info/: Wolfgang

Description: Basic restaurant information, such as name, address, cover picture, phone number GET: Retrieves the current restaurant information

PUT/PATCH: Send payload that will update the fields if the user is the owner of the restaurant

- Payloads:
 - Charfield/text:name, bio, address, logo, cover
 - Integerfield/integer: phone

restaurant/<restaurant>/comments: Ramel

GET: retrieve all comments

POST: Creates a new comment from the logged-in user with a text payload that holds the comment. Create a new notification for the owner user of the restaurant.

- Payloads:
 - Charfield/text: content (comment contents)

restaurant/comments/<id>: Ramel

GET: Retrieve comment using its id

restaurant/<restaurant>/followers: Ramel

GET: Retrieves all followers

POST: add the logged-in user to the followers model with reference to <restaurant>. Create new notification for the owner of restaurant. Nothing happens if user is already following restaurant.

restaurant/<restaurant>/menu: Wolfgang

GET: Retrieves all menu items that the specified restaurant has created

POST: add a new menu item model instance, and validate that the user is the owner of <restuarant>

- Payloads:
 - Charfield/text: name, content, picture
 - Integerfield/integer: price

restaurant/menu/<pk>: Wolfgang

GET: Retrieve menu item using its id

PUT/PATCH: send payload that will update/change the fields of a given menu item if a user is the owner of the given restaurant who owns the menu

DELETE: deletes the specified menu item with <pk> if a user is the owner of the restaurant that owns the item.

- Payloads:
 - Charfield/text: name, content, picture

- Integerfield/integer: price

restaurant/<restaurant>/blogposts: Hritik

GET: Retrieves all blog posts for the restaurant

POST: add a new blog post model instance, and validate that the user is the owner of

<restuarant>. Create a new notification for all users that follow this restaurant.

Payload:

Charfield: Title, Content

restaurant/blogposts/<pk>/: Hritik

GET: Retrieves the blogpost with the id <pk>

DELETE: Deletes the blogpost with id <pk> if the currently logged in user is the owner of the restaurant the blogpost belongs to.

restaurant/blogposts/
 slogpost>/like: Ramel

GET: Retrieves all users that liked the post

POST: the currently logged-in user creates an entry in the Likes model and notifies the restaurant owner that the post has been liked