

ANDROID APPLICATION DEVELOPMENT

CHEFSHOUR: A Food Related Android Application

SUBMITTED BY GROUP VI



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CHEFS' Introduction

Enables the user with the luxury of choosing recipes from a wide variety of categories just a click away.



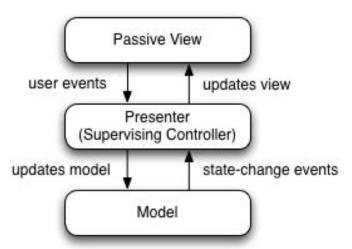


CHEFS' Project Description

- View
- Recipes from Cloud
- Favourites
- Video Demo: YouTube linked
- ☐ Source Linked
- □ Account login (if required)
- Categorical Representation
- Meals API



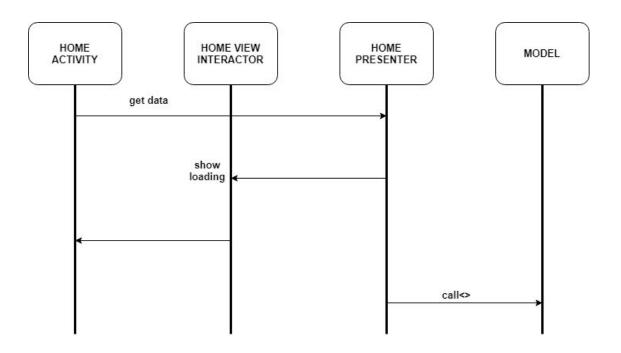
CHEFS' MVP Architecture







CHEFS' Execution of MVP Architecture





CHEFS' Android Components

- ☐ API
- Butterknife
- Retrofit2
- ☐ Shimmer (Facebook)





■ Source: TheMealDB

☐ JSON API

Converted JSON to JAVA

RecipelD	Recipe Name	Ingredients	Directions	Country	YouTube Link	Source
		1 1/2 cups	If you want to make a good pizza that's			
		self-rising flour,	fast and easy, this is it. Cooking at a			https://ww
		plus more for	higher temperature (500 degrees F (260		https://www	w.indianh
		kneading,	degrees C)) is the key to making this the		.youtube.co	ealthyreci
		Cooking spray,	perfect pizza. It doesn't get any easier		m/watch?v	pes.com/a
		Greek Yogurt,	than this folks. Brush dough with olive oil		=RNZ1ouYf	loo-tikki-re
R01	Aalo Tikki	toppings	and add your favorite toppings. Enjoy!"	Indian	jZk	cipe/



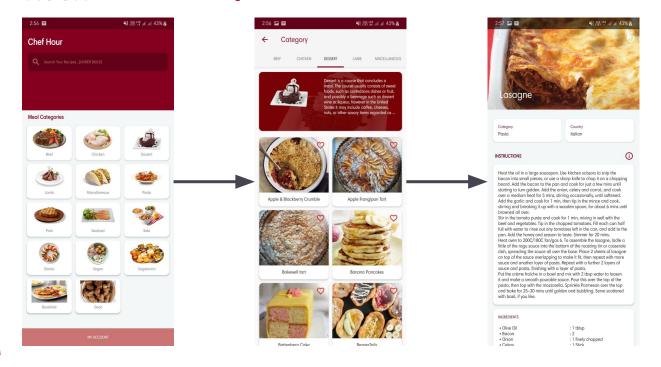


Android Concepts: Applied from Syllabus

- Constraint Layout, Text view, Edit Text, Button
- Progress bar, Auto Complete Text View, Toast
- Recycler View (Grid/List view), Fragments, Pager Adapter (Array Adapter)
- ☐ Implicit and Explicit Intents
- □ SQLite (Database), Etc.....



CHEFS' Main Layouts







CHEFS' File Structure

▼ 🛅 layout

- activity_category.xml
- \atop activity_dashboard.xml
- activity_detail.xml
- activity_home.xml
- activity_register.xml
- fragment_category.xml
- a item_recycler_category.xml
- alitem_recycler_category_shimmer.xml
- item_recycler_meal.xml
- a item_view_pager_header.xml
- item_view_pager_header_shimmer.xml
- myaccount.xml

- w adapter
 - RecyclerViewHomeAdapter
 - RecyclerViewMealByCategory
 - ViewPagerCategoryAdapter
 - ViewPagerHeaderAdapter
- ▼ 🛅 api
 - FoodApi
 - FoodClient
- ▼ 🛅 model
 - Categories
 - Meals
- ▼ 🖿 view
 - - CategoryActivity
 - CategoryFragment
 - CategoryPresenter
 - CategoryView
 - ▼ 🛅 detail
 - DetailActivity
 - DetailPresenter
 - DetailView
 - ▼ lim home
 - C HomeActivity
 - HomePresenter
 - HomeView
 - Account
 - DashboardActivity
 - RegisterActivity
 - SQLiteHelper
 - © User





CHEFS' Login And Registration

- User Login
 - Email & Password
- Not Registered?
- New User
 - Name
 - Email
 - Password









- 4 Attributes
 - ☐ Auto-incremented UserID
 - Email
 - Username
 - Password

User ID	Email	Username	Password
01	arun10@gmail.com	Arun S	******
02	JVG12@xyz.com	Joseph VG	*****
03	natLyon@lol.com	Nathon Lyon	*****
04	perry12@gmail.com	Christina Perry	*****



```
LogInButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick (View view) {
        CheckEditTextStatus();
        LoginFunction();
1);
// Opening SQLite database write permission.
sqLiteDatabaseObj = sqLiteHelper.getWritableDatabase();
// Adding search email guery to cursor.
cursor = sqLiteDatabaseObj.query(SQLiteHelper. TABLE NAME,
null, " " + SQLiteHelper. Table Column 2 Email + "=?", new
String[]{EmailHolder}, null, null, null);
CheckFinalResult();
```

```
public void CheckFinalResult() {
if(TempPassword.equalsIgnoreCase(PasswordHold
er))
       Toast. makeText (Account. this, "Login
Successfully", Toast. LENGTH LONG) . show();
       Intent intent = new
Intent (Account. this,
DashboardActivity. class);
        intent.putExtra( UserEmail,
EmailHolder);
       startActivity(intent);
   else {
       Toast. makeText (Account. this, "UserName
or Password is Wrong, Please Try
Again.", Toast. LENGTH_LONG) .show();
```



CHEFS' Register Page

```
Register.setOnClickListener( new View.OnClickListener() {
   @Override
   public void onClick(View view) {
       // Creating SQLite database if doesn't exists
       SOLiteDataBaseBuild();
       // Creating SQLite table if doesn't exists.
       SOLiteTableBuild();
       // Checking EditText is empty or Not.
       CheckEditTextStatus();
       // Method to check Email is already exists or not.
       CheckingEmailAlreadyExistsOrNot();
       // Empty EditText After done inserting process.
       EmptyEditTextAfterDataInsert();
});
```

```
public void InsertDataIntoSOLiteDatabase() {
   // If editText is not empty then this
block will executed.
   if(EditTextEmptyHolder == true)
       // SQLite query to insert data into
table.
       SQLiteDataBaseQueryHolder = "INSERT
INTO "+SQLiteHelper. TABLE NAME+"
(name,email,password)
VALUES('"+NameHolder+"', '"+EmailHolder+"',
'"+PasswordHolder+"');";
       // Executing query.
sqLiteDatabaseObj.execSOL(SQLiteDataBaseQuery
Holder);
       // Closing SQLite database object.
       sqLiteDatabaseObj.close();
       // Printing toast message after done
inserting.
Toast. makeText (RegisterActivity. this, "User
Registered Successfully",
Toast. LENGTH LONG) . show();
```





Main Functions Involved

- □ showLoading()
- □ hideLoading()
- □ setMeal()
- □ setCategory()
- □ onErrorLoading()
- ☐ getcategories()

- getMeals()
- □ initIntent()
- ☐ LoginFunction()
- ☐ CheckFinalResult()
- ☐ InsertDataIntoSQLiteTable()



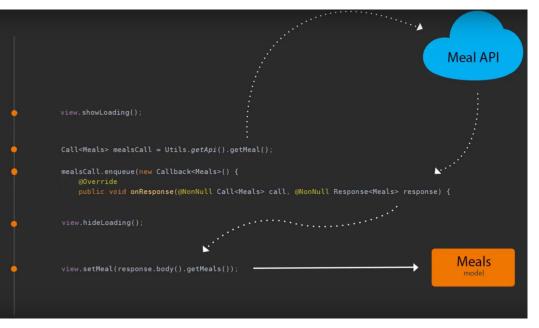
CHEFS' Home Screen



```
GridLayoutManager layoutManager = new GridLayoutManager(this, 3,
       GridLayoutManager. VERTICAL, false);
void getCategories() {
   view.showLoading();
  Call<Categories> categoriesCall = Utils. getApi().getCategories();
  categoriesCall.enqueue( new Callback<Categories>() {
       @Override
       public void onResponse(@NonNull Call<Categories> call,
                               @NonNull Response<Categories> response) {
           view.hideLoading();
           if (response.isSuccessful() && response.body() != null) {
               view.setCategory(response.body().getCategories());
           else {
               view.onErrorLoading(response.message());
```

CHEFS' Categorical Screen









CHEFS' Recipe Screen



Category Pasta

INSTRUCTIONS

Heat the oil in a large saucepan. Use kitchen scissors to snip the bacon into small pieces, or use a sharp knife to chop it on a chopping board. Add the bacon to the pan and cook for just a few mins until starting to turn golden. Add the onion, celery and carrot, and cook over a medium heat for 5 mins, stirring accasionally, until softened. Add the garlic and cook for 1 min, then tip in the mince and cook, stirring and breaking it up with a wooden spoon, for about 6 mins until

Stir in the tomato purée and cook for 1 min, mixing in well with the beef and vegetables. Tip in the chopped tomatoes. Fill each can half full with water to rinse out any tomatoes left in the can, and add to the pan. Add the honey and season to taste. Simmer for 20 mins. Heat oven to 200C/180C fan/gas 6. To assemble the lasagne, ladle a little of the ragu sauce into the bottom of the roasting tin or casserole dish, spreading the squce all over the base. Place 2 sheets of lasagne on top of the sauce overlapping to make it fit, then repeat with more sauce and another layer of pasta. Repeat with a further 2 layers of sauce and pasta, finishing with a layer of pasta.

Put the crème fraiche in a bowl and mix with 2 tbsp water to loosen it and make a smooth pourable sauce. Pour this over the top of the pasta, then top with the mozzarella. Sprinkle Parmesan over the top and bake for 25-30 mins until golden and bubbling. Serve scattered with basil, if you like.

INGREDIENTS

- · Olive Oil
- Onion
- : 1 finely chopped

Lasagne

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INGREDIENTS

(1)

- · Olive Oil : 1 tblsp Bacon : 1 finely chopped Onion Celery : 1 Stick · Carrots : 1 medium · Garlic : 2 cloves chopped
- · Minced Beef : 500g · Tomato Puree : 1 tbls · Chopped Tomatoes : 800g
- Honey : 1 tblsp · Lasagne Sheets : 500g · Creme Fraiche : 400ml
- Mozzarella Balls : 125g · Parmesan Cheese : 50g
- · Basil Leaves : Topping

▶ YOUTUBE



```
School of
Engineering
```

```
voutube.setOnClickListener(v -> {
   Intent intentYoutube = new
Intent(Intent.ACTION VIEW);
intentYoutube.setData(Uri.parse(meal.ge
tStrYoutube()));
   startActivity(intentYoutube);
});
source.setOnClickListener(v -> {
   Intent intentSource = new
Intent(Intent.ACTION VIEW);
intentSource.setData(Uri.parse(meal.get
StrSource()));
   startActivity(intentSource);
});
```



CHEFS' Conclusion

This application is extremely handy and useful for cooking a variety of recipes. The Application was tested and successfully Completed.







Future Additions Possible

- Search
 - ☐ Search by Title and Ingredients
 - ☐ Search on Recipe ratings
 - ☐ Search Trending Recipes in different categories
 - ☐ Search by category

MyRecipeList



Demonstration of the Application

Screen Sharing....

THANK YOU....

