



# ANDROID APPLICATION DEVELOPMENT

## CHEFSHOUR: A Food Related Android Application

SUBMITTED BY **GROUP VI**



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# Introduction

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



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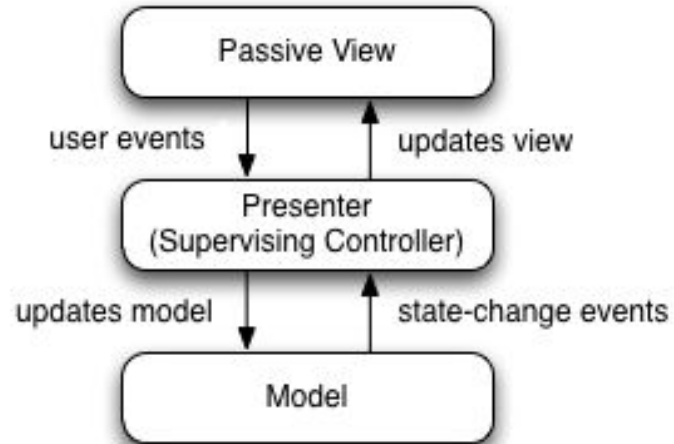


# Project Description

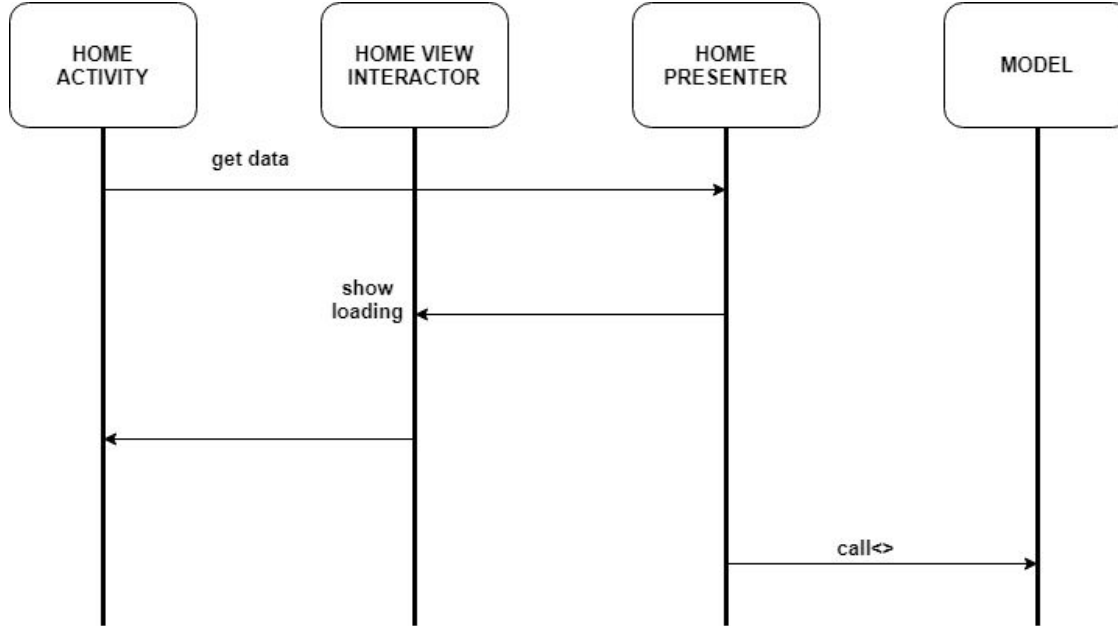
- ☐ View
- ☐ Recipes from Cloud
- ☐ Favourites
- ☐ Video Demo: YouTube linked
- ☐ Source Linked
- ☐ Account login (if required)
- ☐ Categorical Representation
- ☐ Meals API



# MVP Architecture



# Execution of MVP Architecture





# Android Components

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





# Meal Database

- ❑ Source: TheMealDB
- ❑ JSON API
- ❑ Converted JSON to JAVA

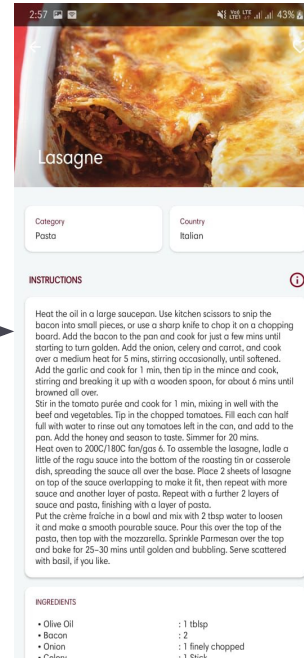
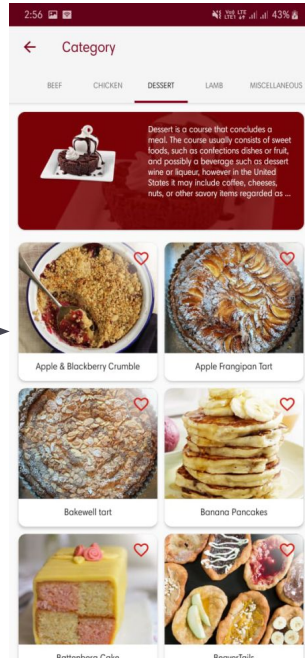
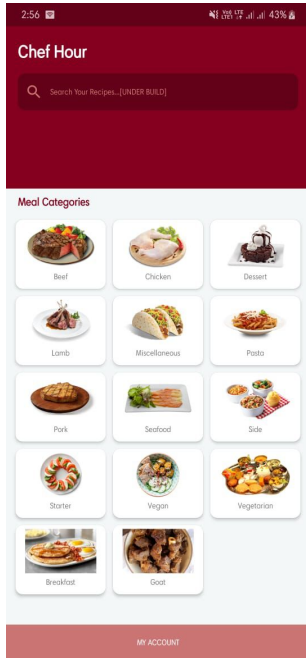
RecipeID	Recipe Name	Ingredients	Directions	Country	YouTube Link	Source
R01	Aalo Tikki	1 1/2 cups self-rising flour, plus more for kneading, Cooking spray, Greek Yogurt, toppings	If you want to make a good pizza that's fast and easy, this is it. Cooking at a higher temperature (500 degrees F (260 degrees C)) is the key to making this the perfect pizza. It doesn't get any easier than this folks. Brush dough with olive oil and add your favorite toppings. Enjoy!"	Indian	<a href="https://www.youtube.com/watch?v=RNZ1ouYfjZk">https://www.youtube.com/watch?v=RNZ1ouYfjZk</a>	<a href="https://www.indianhealthyrecipes.com/aalo-tikki-recipe/">https://www.indianhealthyrecipes.com/aalo-tikki-recipe/</a>





# Android Concepts: Applied from Syllabus

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





# File Structure

- ▼ layout
  - activity\_category.xml
  - activity\_dashboard.xml
  - activity\_detail.xml
  - activity\_home.xml
  - activity\_register.xml
  - fragment\_category.xml
  - item\_recycler\_category.xml
  - item\_recycler\_category\_shimmer.xml
  - item\_recycler\_meal.xml
  - item\_view\_pager\_header.xml
  - item\_view\_pager\_header\_shimmer.xml
  - myaccount.xml

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



# Login And Registration

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



User Login Screen

Enter Email

Enter Password

LOG IN

NEW USER? | REGISTER HERE



User Registration

Enter Name

Enter Email

Enter Password

REGISTER FROM HERE

# Login Database

- ❑ 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	*****



# Login Page

```
LogInButton.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View view) {  
  
        CheckEditTextStatus();  
        LoginFunction();  
  
    }  
});
```

```
// Opening SQLite database write permission.  
sqliteDatabaseObj = dbHelper.getWritableDatabase();  
  
// Adding search email query to cursor.  
cursor = dbHelper.query(SQLiteHelper.TABLE_NAME,  
    null, " " + SQLiteHelper.Table_Column_2_Email + "=?", new  
    String[]{EmailHolder}, null, null, null);  
  
CheckFinalResult();
```

```
public void CheckFinalResult() {  
  
    if(TempPassword.equalsIgnoreCase( PasswordHolder))  
    {  
  
        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();  
  
    }  
}
```





# Register Page

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

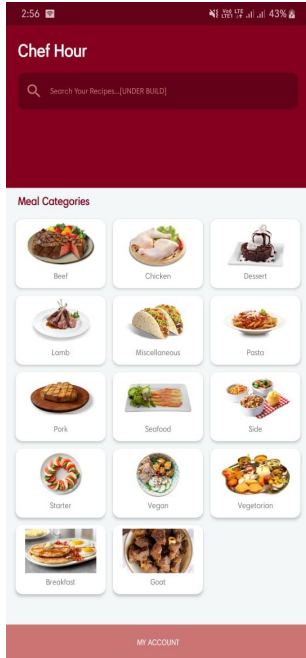
```
public void InsertDataIntoSQLiteDatabase() {  
  
    // If editText is not empty then this  
    block will executed.  
    if(EditTextEmptyHolder == true)  
    {  
  
        // SQLite query to insert data into  
        table.  
        SQLiteDatabaseQueryHolder = "INSERT  
        INTO "+SQLiteHelper. TABLE_NAME+"  
        (name,email,password)  
        VALUES ('"+NameHolder+"', '"+EmailHolder+"',  
        '"+PasswordHolder+"');" ;  
  
        // Executing query.  
  
        SQLiteDatabaseObj.execSQL( 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()





```

GridLayoutManager layoutManager = new GridLayoutManager( this, 3,
    GridLayoutManager. VERTICAL, false);

void getCategories() {
    view.showLoading();

    Call<Categories> categoriesCall = Utils. getApi().getCategories();
    categoriesCall.enqueue( new Callback<Categories>() {

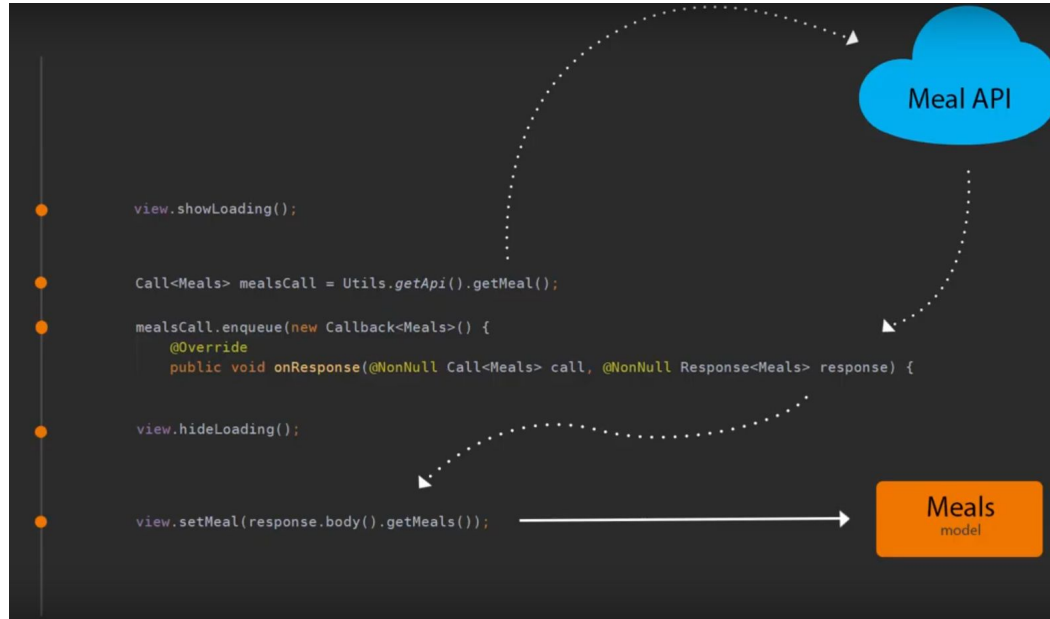
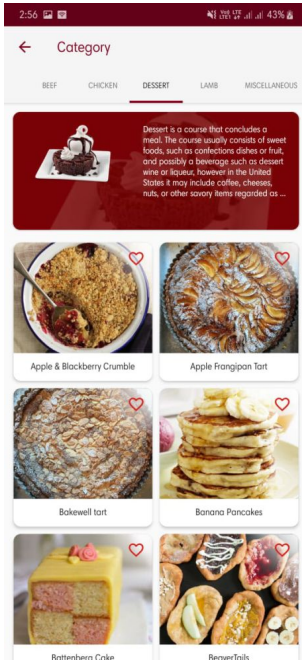
        @Override
        public void onResponse( @NonNull Call<Categories> call,
                                @NonNull Response<Categories> response) {

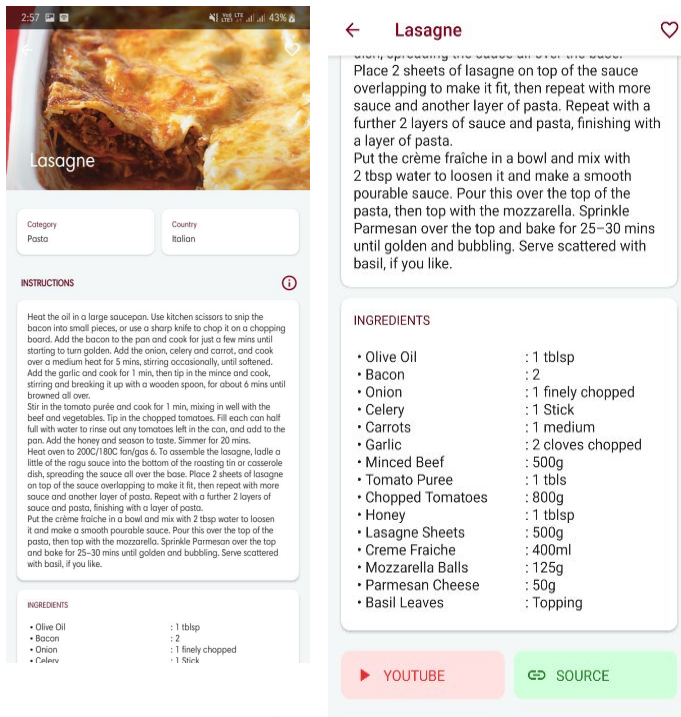
            view.hideLoading();

            if (response.isSuccessful() && response.body() != null) {
                view.setCategory(response.body().getCategories());
            }
            else {
                view.onErrorLoading(response.message());
            }
        }
    })
}

```

# Categorical Screen





```
youtube.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);
});
```

## 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....



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