AndriodManifest.xml:

```xml
<manifest xmlns:android="http://schemas.android.com/apk/res/android">
    <application android:allowBackup="true" android:label="Sishir Phuyal's Bet UFC"
android:supportsRtl="true">
        <activity android:name=".ActiveFightsDisplay" android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN"/>
                <category android:name="android.intent.category.LAUNCHER"/>
            </intent-filter>
        </activity>
        <activity android:name=".ViewMyBetsActivity" android:exported="true"/>
        <activity android:name=".BetPageActivity" android:exported="true"/>
        <activity android:name=".AdminPageAddFightActivity" android:exported="true"/>

    </application>
</manifest>
```

ActiveFightsDisplay.java:

```java
package com.example.betufcapp;

import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import java.util.ArrayList;


public class ActiveFightsDisplay extends AppCompatActivity {
    private Boolean adminAccess = Boolean.FALSE;
    ArrayList<FightCardObject> fightCardObjects;
    RecyclerView recyclerView;
    FightCardViewAdapter viewAdapter;
    DbHelper dbHelper;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        dbHelper = new DbHelper(this);
        setContentView(R.layout.fight_card_list);
```

```java
        initAddDishButton();
        initViewBetsButton();
    }

    @Override
    public void onResume() {
        super.onResume();
        dbHelper = new DbHelper(this);
        DbQueries ds = new DbQueries(this);
        try {
            ds.open();
            fightCardObjects = ds.getActiveFights();
            ds.close();
            if (fightCardObjects.size() > 0) {
                recyclerView = findViewById(R.id.fightsList);
                RecyclerView.LayoutManager layoutManager = new LinearLayoutManager(this);
                recyclerView.setLayoutManager(layoutManager);
                viewAdapter = new FightCardViewAdapter(fightCardObjects, this);
                viewAdapter.setOnItemClickListener(onItemClickListener);
                recyclerView.setAdapter(viewAdapter);
            }
            else {
                /*Intent intent = new Intent(ActiveFightsDisplay.this, BetPageActivity.class);
                startActivity(intent);*/
            }
        }
        catch (Exception e) {
        }
    }

    private final View.OnClickListener onItemClickListener = new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            RecyclerView.ViewHolder viewHolder = (RecyclerView.ViewHolder) view.getTag();
            int position = viewHolder.getAdapterPosition();
            int fightID = fightCardObjects.get(position).getFightID();
            Intent intent = new Intent(ActiveFightsDisplay.this, BetPageActivity.class);
            intent.putExtra("fightID", fightID);
            startActivity(intent);
        }
    };

    private void initAddDishButton() {
        Button addFightCards = findViewById(R.id.buttonAddFight);
```

```java
        if(adminAccess){
            addFightCards.setOnClickListener(v -> {
                Intent intent = new Intent(ActiveFightsDisplay.this, AdminPageAddFightActivity.class);
                startActivity(intent);
            });
        }
        else{
            addFightCards.setVisibility(View.GONE);
        }
    }

    private void initViewBetsButton() {
        Button viewMyBets = findViewById(R.id.viewMyBets);
        viewMyBets.setOnClickListener(v -> {
            Intent intent = new Intent(ActiveFightsDisplay.this, ViewMyBetsActivity.class);
            startActivity(intent);
        });
    }
}
```

AdminPageAddFightActivity.java :

```java
package com.example.betufcapp;
import android.app.AlertDialog;
import android.content.Context;
import android.content.DialogInterface;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

import androidx.appcompat.app.AppCompatActivity;


public class AdminPageAddFightActivity extends AppCompatActivity {

    private Context context;
    private EditText enterFighterOneName;
    private EditText enterFighterTwoName;
    private EditText enterFighterOneOdds;
    private EditText enterFighterTwoOdds;
    private EditText enterStartTime;
```

```java
private DbHelper dbHelper;
private FightCardObject currentDish;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.add_fight_to_db);
    context = this;
    enterFighterOneName = findViewById(R.id.f1Name);
    enterFighterTwoName = findViewById(R.id.f2Name);
    enterFighterOneOdds = findViewById(R.id.f1Odds);
    enterFighterTwoOdds = findViewById(R.id.f2Odds);
    enterStartTime = findViewById(R.id.startTime);

    Button addFight = findViewById(R.id.addFight);
    Button goBackToMainPage = findViewById(R.id.goBack);
    dbHelper = new DbHelper(context);

    addFight.setOnClickListener((new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            addFightToDB();
        }
    }));

    goBackToMainPage.setOnClickListener((new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Intent intent = new Intent(AdminPageAddFightActivity.this, ActiveFightsDisplay.class);
            final Intent intent1 = intent.setFlags(Intent.FLAG_ACTIVITY_CLEAR_TOP);
            startActivity(intent);
        }
    }));
}

private void addFightToDB() {
    FightCardObject object;
    if (!enterFighterOneName.getText().toString().isEmpty() &&
            !enterFighterTwoName.getText().toString().isEmpty() &&
            !enterStartTime.getText().toString().isEmpty() &&
            !enterFighterOneOdds.getText().toString().isEmpty() &&
            !enterFighterTwoOdds.getText().toString().isEmpty()) {
        object = new FightCardObject(
```

```java
                enterFighterOneName.getText().toString(),
                enterFighterTwoName.getText().toString(),
                enterFighterOneOdds.getText().toString(),
                enterFighterTwoOdds.getText().toString(),
                enterStartTime.getText().toString(),0
        );
        DbQueries ds = new DbQueries(this);

        try {
            ds.open();
            ds.addFightsAdminOnly(object);
            ds.close();
        }
        catch (Exception e) {

        }
        clearEditTextFields();
    }
    else {
        displayAlert();
    }
}

private void clearEditTextFields() {
    enterFighterOneName.setText("");
    enterFighterTwoName.setText("");
    enterFighterOneOdds.setText("");
    enterFighterTwoOdds.setText("");
    enterStartTime.setText("");
}

private void displayAlert(){
    AlertDialog.Builder builder = new AlertDialog.Builder(this);
    builder.setMessage("Please fill in all fields.");
    builder.setPositiveButton("OK", new DialogInterface.OnClickListener() {
        @Override
        public void onClick(DialogInterface dialogInterface, int i) {
            // Close the dialog box
            dialogInterface.dismiss();
        }
    });
    AlertDialog dialog = builder.create();
    dialog.show();
}
```

```
}
```

BetPageActivity.java:

```java
package com.example.betufcapp;
import android.app.AlertDialog;
import android.content.Context;
import android.content.DialogInterface;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;
import androidx.appcompat.widget.SwitchCompat;

import java.sql.SQLException;



public class BetPageActivity extends AppCompatActivity {

    private Context context;
    private TextView fighterOneName;
    private TextView fighterTwoName;
    private TextView fighterOneOdds;
    private TextView fighterTwoOdds;
    private TextView amount;
    private TextView previewWinningsText;
    private EditText betAmount;
    private FightCardObject currentFightCard;
    private SwitchCompat switchFighterOne;
    private SwitchCompat switchFighterTwo;
    private ExtraMethods extraMethods;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main_betting_page);
        Bundle extras = getIntent().getExtras();
        extraMethods = new ExtraMethods();
```

```java
        context = this;
        fighterOneName = findViewById(R.id.fighterOneName);
        fighterTwoName = findViewById(R.id.fighterTwoName);
        fighterOneOdds = findViewById(R.id.fighterOneOdds);
        fighterTwoOdds = findViewById(R.id.fighterTwoOdds);
        betAmount = findViewById(R.id.bet_amount);
        amount = findViewById(R.id.amount);
        previewWinningsText = findViewById(R.id.possibleWinning);
        switchFighterOne = findViewById(R.id.switchFighterOne);
        switchFighterTwo = findViewById(R.id.switchFighterTwo);
        Button previewWinnings = findViewById(R.id.preview_winnings);
        Button submitBet = findViewById(R.id.submit_bet_button);
        Button goBackToMainPage = findViewById(R.id.go_to_listOfDishes_button);
        if(extras != null) {
            initPage(extras.getInt("fightID"));
            setView();
        }
        previewWinnings.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                showWinningPotential();
            }
        });

        submitBet.setOnClickListener((new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                submitBet();
            }
        }));

        goBackToMainPage.setOnClickListener((new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                goBack();
            }
        }));
    }

private void goBack(){
    Intent intent = new Intent(BetPageActivity.this, ActiveFightsDisplay.class);
    final Intent intent1 = intent.setFlags(Intent.FLAG_ACTIVITY_CLEAR_TOP);
    startActivity(intent);
}
```

```java
    private void showWinningPotential() {
        if (switchFighterOne.isChecked() && switchFighterTwo.isChecked() ||
!switchFighterOne.isChecked() && !switchFighterTwo.isChecked()) {
            displayAlert();
        }
        else{
            String winningAmount;
            amount.setVisibility(View.VISIBLE);
            previewWinningsText.setVisibility(View.VISIBLE);
            amount.setText("Amount : " +
extraMethods.formattedCurrency(Double.parseDouble(betAmount.getText().toString())));
            double amountDecimal = Double.parseDouble(betAmount.getText().toString());
            if (switchFighterOne.isChecked()){
                winningAmount = extraMethods.calculateWinningAmount(amountDecimal,
Double.parseDouble(fighterOneOdds.getText().toString()));
            }
            else{
                winningAmount = extraMethods.calculateWinningAmount(amountDecimal,
Double.parseDouble(fighterTwoOdds.getText().toString()));
            }
            previewWinningsText.setText("Possible Winning: " + winningAmount);

        }
    }
    private void displayAlert(){
        AlertDialog.Builder builder = new AlertDialog.Builder(this);
        builder.setMessage("Select ONE Fighter");
        builder.setPositiveButton("OK", new DialogInterface.OnClickListener() {
            @Override
            public void onClick(DialogInterface dialogInterface, int i) {
                // Close the dialog box
                dialogInterface.dismiss();
            }
        });
        AlertDialog dialog = builder.create();
        dialog.show();
    }

    private void submitBet() {

        if (switchFighterOne.isChecked() && switchFighterTwo.isChecked() ||
!switchFighterOne.isChecked() && !switchFighterTwo.isChecked()) {
```

```java
            displayAlert();
        }
        else{
            int amountDecimal = Integer.parseInt(betAmount.getText().toString());
            int selectFighter;
            if (switchFighterOne.isChecked()){
                selectFighter = 1;
            }
            else{
                selectFighter = 2;
            }
            DbQueries ds = new DbQueries(this);
            try {
                ds.open();
                ds.insertBetIntoTable(currentFightCard.getFightID(), amountDecimal, selectFighter);
                ds.close();
            } catch (SQLException e) {
                e.printStackTrace();
            }
            goBack();
        }
    }

    private void setView(){
        fighterOneName.setText(currentFightCard.getFighterOneName());
        fighterTwoName.setText(currentFightCard.getFighterTwoName());

fighterOneOdds.setText(extraMethods.displayFormattedOdds(Integer.parseInt(currentFightCard
.getFighterOneOdds())));

fighterTwoOdds.setText(extraMethods.displayFormattedOdds(Integer.parseInt(currentFightCard.
getFighterTwoOdds())));
    }

    private void initPage(int fightID){
        DbQueries ds = new DbQueries(this);
        try {
            ds.open();
            currentFightCard = ds.getFightCardByFightID(fightID);
            ds.close();
        } catch (SQLException e) {
            e.printStackTrace();
        }
```

```java
        }
}


DbHelper.java:

package com.example.betufcapp;

import android.content.Context;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import android.util.Log;

import androidx.annotation.NonNull;

public class DbHelper extends SQLiteOpenHelper {

    private static final String DATABASE_NAME = "BETUFC.db";
    private static final int DATABASE_VERSION = 1;

    private static final String SQL_CREATE_ACTIVE_FIGHT_TABLE =
            "CREATE TABLE activeFights (fightID INTEGER PRIMARY KEY AUTOINCREMENT," +
                    "fighterOneName TEXT NOT NULL," +
                    "fighterOneOdds TEXT NOT NULL," +
                    "fighterTwoName TEXT NOT NULL," +
                    "fighterTwoOdds TEXT NOT NULL," +
                    "startTime TEXT NOT NULL," +
                    "isActive INTEGER DEFAULT 1)";

    private static final String SQL_CREATE_ACTIVE_BETS_TABLE =
            "CREATE TABLE bets (betID INTEGER PRIMARY KEY AUTOINCREMENT," +
                    "fightID INTEGER NOT NULL," +
                    "betAmount INTEGER NOT NULL," +
                    "fighterPick INTEGER NOT NULL," +
                    "FOREIGN KEY (fightID) REFERENCES  activeFights(fightID))";

    public DbHelper(Context context) {
        super(context, DATABASE_NAME, null, DATABASE_VERSION);
    }

    @Override
    public void onCreate(SQLiteDatabase db) {
        db.execSQL(SQL_CREATE_ACTIVE_FIGHT_TABLE);
        db.execSQL(SQL_CREATE_ACTIVE_BETS_TABLE);
```

```java
    }


    @Override
    public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
        Log.w(DbHelper.class.getName(),
                "Upgrading database from version " + oldVersion + " to "
                        + newVersion + ", which will destroy all old data");
        db.execSQL("DROP TABLE IF EXISTS activeFights");
        db.execSQL("DROP TABLE IF EXISTS dishes");
        onCreate(db);
    }
}
```

DBQueries.java:

```java
package com.example.betufcapp;

import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;

import java.sql.SQLException;
import java.util.ArrayList;

public class DbQueries {

    private SQLiteDatabase database;
    private DbHelper dbHelper;

    public DbQueries(Context context) {
        dbHelper = new DbHelper(context);
    }

    public void open() throws SQLException {
        database = dbHelper.getWritableDatabase();
    }

    public void close() {
        dbHelper.close();
    }
```

```java
public int addFightsAdminOnly(FightCardObject object) {
    ContentValues values = new ContentValues();
    values.put("fighterOneName", object.getFighterOneName());
    values.put("fighterTwoName", object.getFighterTwoName());
    values.put("fighterOneOdds", object.getFighterOneOdds());
    values.put("fighterTwoOdds", object.getFighterTwoOdds());
    values.put("startTime", object.getStartTime());
    long newRowId = database.insert("activeFights", null, values);
    return (int) newRowId;
}


public void insertBetIntoTable(int fightID, int betAmount, int fighterPick) {
    ContentValues values = new ContentValues();
    values.put("fightID", fightID);
    values.put("betAmount", betAmount);
    values.put("fighterPick", fighterPick);
    long newRowId = database.insert("bets", null, values);
    updateFightStatus(fightID);
}

public ArrayList<FightCardObject> getActiveFights() {
    ArrayList<FightCardObject> fightCardObjects = new ArrayList<FightCardObject>();
    try {
        String query = "SELECT * FROM activeFights where isActive = 1 order by startTime asc";
        Cursor cursor = database.rawQuery(query, null);

        cursor.moveToFirst();
        do {
            FightCardObject temp = new FightCardObject(
                    cursor.getString(1),
                    cursor.getString(3),
                    cursor.getString(2),
                    cursor.getString(4),
                    cursor.getString(5),
                    cursor.getInt(0)
            );
            fightCardObjects.add(temp);
        } while (cursor.moveToNext());

        cursor.close();
    } catch (Exception e) {
        fightCardObjects = new ArrayList<FightCardObject>();
```

```java
        }
        return fightCardObjects;
    }

    public FightCardObject getFightCardByFightID(int fightID) {
        FightCardObject fightCardObject = new FightCardObject();
        try {
            String query = "SELECT * FROM activeFights where fightID =" + String.valueOf(fightID);
            Cursor cursor = database.rawQuery(query, null);

            cursor.moveToFirst();
            do {
                FightCardObject temp = new FightCardObject(
                        cursor.getString(1),
                        cursor.getString(3),
                        cursor.getString(2),
                        cursor.getString(4),
                        cursor.getString(5),
                        cursor.getInt(0)

                );
                cursor.close();
                return temp;
            } while (cursor.moveToNext());


        } catch (Exception e) {

        }
        return fightCardObject;
    }

    private void updateFightStatus(int fightID) {
        boolean didSucceed = false;
        try {
            ContentValues values = new ContentValues();

            values.put("isActive", 0);
            didSucceed = database.update("activeFights", values, "fightID=" + fightID, null) > 0;

        } catch (Exception e) {
            //Do nothing -will return false if there is an exception
        }
    }
```

```java
public ArrayList<MyBetDTO> getMyBets() {
    ArrayList<MyBetDTO> arrayList = new ArrayList<MyBetDTO>();
    try {
        String query = "SELECT * FROM bets";
        Cursor cursor = database.rawQuery(query, null);

        cursor.moveToFirst();
        do {
            MyBetDTO temp = new MyBetDTO();
            temp.setBetID(cursor.getInt(0));
            temp.setFightCard(getFightCardByFightID(cursor.getInt(1)));
            temp.setBetAmount(cursor.getInt(2));
            temp.setFighterPick(cursor.getInt(3));
            arrayList.add(temp);
        } while (cursor.moveToNext());

        cursor.close();
    } catch (Exception e) {
        arrayList = new ArrayList<MyBetDTO>();
    }
    return arrayList;
}

public void removeAllBets() {
    ArrayList<MyBetDTO> dtos = getMyBets();
    for (MyBetDTO dto : dtos){
        try {
            boolean didDelete = false;
            didDelete = database.delete("bets", "betID=" + dto.getBetID(), null) > 0;
            if (didDelete){
                deleteFightByFightID(dto.getFightCard().getFightID());
            }
        }
        catch (Exception e) {
            e.printStackTrace();
        }

    }
}
public void deleteFightByFightID(int fightID) {
    boolean didDelete = false;
    try {
```

```java
            didDelete = database.delete("activeFights", "fightID=" + fightID, null) > 0;
        }
        catch (Exception e) {
        }
    }

}
```

ExtraMethods.java:

```java
package com.example.betufcapp;

import java.text.DecimalFormat;

public class ExtraMethods {
    public String calculateWinningAmount(double betAmount, double oddPotential) {
        double decimalOdd = 0.0;
        if (oddPotential >= 0) {
            decimalOdd = 1 + (oddPotential / 100.0); // For positive odds (underdog UFC odds)
        } else {
            decimalOdd = 1 - (100.0 / Math.abs(oddPotential)); // For negative odds (favored
fighter's odds)
        }
        double winningAmount = betAmount * decimalOdd;
        DecimalFormat decimalFormat = new DecimalFormat("0.00");
        String winningAmountFormatted = decimalFormat.format(winningAmount);
        return "$"+winningAmountFormatted;
    }

    public String formattedCurrency(double currency) {
        DecimalFormat decimalFormat = new DecimalFormat("0.00");
        String winningAmountFormatted = decimalFormat.format(currency);
        return "$"+winningAmountFormatted;
    }
    public double calculateWinningAmountDouble(double betAmount, double oddPotential) {
        double decimalOdd = 0.0;
        if (oddPotential >= 0) {
            decimalOdd = 1 + (oddPotential / 100.0); // For positive odds (underdog UFC odds)
        } else {
            decimalOdd = 1 - (100.0 / Math.abs(oddPotential)); // For negative odds (favored
fighter's odds)
        }
        double winningAmount = betAmount * decimalOdd;
```

```java
            return winningAmount;
    }

    public String displayFormattedOdds(int odds){
        if (odds > 0 ){
            return "+"+odds;
        }
        else {
            return ""+odds;
        }
    }
}
```

FightCardObject.java:

```java
package com.example.betufcapp;

public class FightCardObject {
    private String fighterOneName;
    private String fighterTwoName;
    private int fighterOneOdds;
    private int fighterTwoOdds;
    private int fightID;
    private String startTime;

    public FightCardObject(){

    }

    public FightCardObject(String fighterOneName, String fighterTwoName, String
fighterOneOdds, String fighterTwoOdds, String startTime, int fightID ) {
        this.fighterOneName = fighterOneName;
        this.fighterTwoName = fighterTwoName;
        this.fighterOneOdds = Integer.parseInt(fighterOneOdds);
        this.fighterTwoOdds = Integer.parseInt(fighterTwoOdds);
        this.fightID = fightID;
        this.startTime = startTime;
    }

    public String getStartTime() {
        return startTime;
    }
```

```java
    public void setStartTime(String startTime) {
        this.startTime = startTime;
    }

    public String getFighterTwoOdds() {
        return fighterTwoOdds+"";
    }

    public String getFighterOneOdds() {
        return fighterOneOdds+"";
    }

    public String getFighterTwoName() {
        return fighterTwoName ;
    }

    public String getFighterOneName() {
        return fighterOneName ;
    }

    public int getFightID() {
        return fightID;
    }

    public void setFighterOneName(String fighterOneName) {
        this.fighterOneName = fighterOneName;
    }

    public void setFighterTwoName(String fighterTwoName) {
        this.fighterTwoName = fighterTwoName;
    }

    public void setFighterOneOdds(String fighterOneOdds) {
        this.fighterOneOdds = Integer.parseInt(fighterOneOdds);
    }

    public void setFighterTwoOdds(String fighterTwoOdds) {
        this.fighterTwoOdds = Integer.parseInt(fighterTwoOdds);
    }

    public void setFightID(int fightID) {
        this.fightID = fightID;
    }
}
```

FightCardViewAdapter.java:

```java
package com.example.betufcapp;

import android.annotation.SuppressLint;
import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;

import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;

import java.util.ArrayList;

@SuppressWarnings("rawtypes")
public class FightCardViewAdapter extends RecyclerView.Adapter{
    private ArrayList<FightCardObject> dishArrayList;
    private View.OnClickListener myOnItemClickListener;
    private Context parentContext;
    private ExtraMethods extraMethods;

    public class DishViewHolder extends RecyclerView.ViewHolder {
        public TextView fighterOne;
        public TextView fighterOneOdds;
        public TextView fighterTwo;
        public TextView fighterTwoOdds;
        public TextView startTime;

        public DishViewHolder(@NonNull View itemView) {
            super(itemView);
            fighterOne = itemView.findViewById(R.id.fighterOne);
            fighterTwo = itemView.findViewById(R.id.fighterTwo);
            fighterOneOdds = itemView.findViewById(R.id.fighterOneOdds);
            fighterTwoOdds = itemView.findViewById(R.id.fighterTwoOdds);
            startTime = itemView.findViewById(R.id.startingTime);
            itemView.setTag(this);
            itemView.setOnClickListener(myOnItemClickListener);
        }
        public TextView getFighterOne() {
            return fighterOne;
```

```java
        }
        public TextView getFighterTwo() {
            return fighterTwo;
        }
        public TextView getFighterOneOdds() {
            return fighterOneOdds;
        }
        public TextView getFighterTwoOdds() {
            return fighterTwoOdds;
        }
        public TextView getStartTime() {
            return startTime;
        }
    }

    public FightCardViewAdapter(ArrayList<FightCardObject> arrayList, Context context) {
        dishArrayList = arrayList;
        parentContext = context;
        extraMethods = new ExtraMethods();
    }

    public void setOnItemClickListener(View.OnClickListener itemClickListener) {
        this.myOnItemClickListener = itemClickListener;
    }

    @NonNull
    @Override
    public RecyclerView.ViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int
viewType) {
        View v = LayoutInflater.from(parent.getContext()).inflate(R.layout.fight_card_list_item,
parent, false);
        return new DishViewHolder(v);
    }

    @Override
    public void onBindViewHolder(@NonNull RecyclerView.ViewHolder holder,
@SuppressLint("RecyclerView") int position) {
      DishViewHolder cvh = (DishViewHolder) holder;
        int temp = dishArrayList.get(position).getFightID();
        cvh.getFighterOne().setText(dishArrayList.get(position).getFighterOneName());

cvh.getFighterOneOdds().setText(extraMethods.displayFormattedOdds(Integer.parseInt(dishArr
ayList.get(position).getFighterOneOdds())));
        cvh.getFighterTwo().setText(dishArrayList.get(position).getFighterTwoName());
```

```java
        cvh.getFighterTwoOdds().setText(extraMethods.displayFormattedOdds(Integer.parseInt(dishArrayList.get(position).getFighterTwoOdds())));
        cvh.getStartTime().setText(dishArrayList.get(position).getStartTime());
    }

    @Override
    public int getItemCount() {
        return dishArrayList.size();
    }

  /* private void deleteItem(int position) {
        FightCardObject restaurantObject = dishArrayList.get(position);
        DbQueries ds = new DbQueries(parentContext);
        try {
            ds.open();
            boolean didDelete = ds.deleteDishInformation(restaurantObject.getDishID());
            ds.close();
            if (didDelete) {
                dishArrayList.remove(position);
                notifyDataSetChanged();
                Toast.makeText(parentContext, "Delete Success!", Toast.LENGTH_LONG).show();
            }
            else {
                Toast.makeText(parentContext, "Delete Failed!", Toast.LENGTH_LONG).show();
            }
        }
        catch (Exception e) {
        }
    }*/
}
```

MyBetDTO.java:

```java
package com.example.betufcapp;

public class MyBetDTO {
    public int getBetID() {
        return betID;
    }

    public void setBetID(int betID) {
        this.betID = betID;
```

```java
    }

    private int betID;
    public FightCardObject getFightCard() {
        return fightCard;
    }

    public void setFightCard(FightCardObject fightCard) {
        this.fightCard = fightCard;
    }

    private FightCardObject fightCard;

    public int getBetAmount() {
        return betAmount;
    }

    public void setBetAmount(int betAmount) {
        this.betAmount = betAmount;
    }

    private int betAmount;

    public int getFighterPick() {
        return fighterPick;
    }

    public void setFighterPick(int fighterPick) {
        this.fighterPick = fighterPick;
    }

    private int fighterPick;

    public boolean isDidUserWin() {
        return didUserWin;
    }

    public void setDidUserWin(boolean didUserWin) {
        this.didUserWin = didUserWin;
    }

    private boolean didUserWin;

    public MyBetDTO(){
```

```
        }
}


```

MyBetsViewAdapter.java:

```java
package com.example.betufcapp;

import android.annotation.SuppressLint;
import android.content.Context;
import android.graphics.Color;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;

import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;

import java.util.ArrayList;

@SuppressWarnings("rawtypes")
public class MyBetsViewAdapter extends RecyclerView.Adapter{
    private ArrayList<MyBetDTO> myBetDTOS;
    private View.OnClickListener myOnItemClickListener;
    private Context parentContext;
    private ExtraMethods extraMethods;
    private Boolean showPayOut = false;

    public class DishViewHolder extends RecyclerView.ViewHolder {
        public TextView matchTittle;
        public TextView myFighterPick;
        public TextView myFighterOdds;
        public TextView betAmount;
        public TextView potentialPayout;
        public TextView betWonLossTextView;

        public DishViewHolder(@NonNull View itemView) {
            super(itemView);
            matchTittle = itemView.findViewById(R.id.MatchTittle);
            myFighterOdds = itemView.findViewById(R.id.myFighterOdds);
            myFighterPick = itemView.findViewById(R.id.myFighterPick);
            betAmount = itemView.findViewById(R.id.betAmount);
```

```java
            potentialPayout = itemView.findViewById(R.id.potentialPayout);
            betWonLossTextView = itemView.findViewById(R.id.betWon);
            itemView.setTag(this);
        }
        public TextView getMatchTittle() {
            return matchTittle;
        }
        public TextView getMyFighterOdds() {
            return myFighterOdds;
        }
        public TextView getMyFighterPick() {
            return myFighterPick;
        }
        public TextView getBetAmount() {
            return betAmount;
        }
        public TextView getPotentialPayout() {
            return potentialPayout;
        }
        public TextView getBetWonLossTextView() {
            return betWonLossTextView;
        }
    }

    public MyBetsViewAdapter(ArrayList<MyBetDTO> betDTOS, Context context, Boolean
showPay) {
        myBetDTOS = betDTOS;
        extraMethods = new ExtraMethods();
        parentContext = context;
        this.showPayOut = showPay;
    }

    @NonNull
    @Override
    public RecyclerView.ViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int
viewType) {
        View v = LayoutInflater.from(parent.getContext()).inflate(R.layout.my_bets_list_item,
parent, false);
        return new DishViewHolder(v);
    }

    @Override
    public void onBindViewHolder(@NonNull RecyclerView.ViewHolder holder,
@SuppressLint("RecyclerView") int position) {
```

```java
        DishViewHolder cvh = (DishViewHolder) holder;

cvh.getMatchTittle().setText(myBetDTOS.get(position).getFightCard().getFighterOneName() + "
vs " + myBetDTOS.get(position).getFightCard().getFighterTwoName());
        cvh.getBetAmount().setText("Bet Amount : " +
extraMethods.formattedCurrency(myBetDTOS.get(position).getBetAmount()));
        if (myBetDTOS.get(position).getFighterPick() == 1){
            cvh.getMyFighterPick().setText("My Pick : " +
myBetDTOS.get(position).getFightCard().getFighterOneName());

cvh.getMyFighterOdds().setText(extraMethods.displayFormattedOdds(Integer.parseInt(myBetD
TOS.get(position).getFightCard().getFighterOneOdds())));
            cvh.getPotentialPayout().setText("Potential Payout : " +
extraMethods.calculateWinningAmount(myBetDTOS.get(position).getBetAmount(),Integer.parse
Int(myBetDTOS.get(position).getFightCard().getFighterOneOdds())));

        }
        else{
            cvh.getMyFighterPick().setText("My Pick : " +
myBetDTOS.get(position).getFightCard().getFighterTwoName());

cvh.getMyFighterOdds().setText(extraMethods.displayFormattedOdds(Integer.parseInt(myBetD
TOS.get(position).getFightCard().getFighterTwoOdds())));
            cvh.getPotentialPayout().setText("Potential Payout : " +
extraMethods.calculateWinningAmount(myBetDTOS.get(position).getBetAmount(),Integer.parse
Int(myBetDTOS.get(position).getFightCard().getFighterTwoOdds())));
        }
        if (showPayOut){
            cvh.getBetWonLossTextView().setVisibility(View.VISIBLE);
            if(myBetDTOS.get(position).isDidUserWin()){
                cvh.getBetWonLossTextView().setText("Bet Won");
                cvh.getBetWonLossTextView().setTextColor(Color.GREEN);
            }
            else{
                cvh.getBetWonLossTextView().setText("Bet Lost");
                cvh.getBetWonLossTextView().setTextColor(Color.RED);
            }

        }

    }

    @Override
    public int getItemCount() {
```

```
        return myBetDTOS.size();
    }
}
```

ViewMyBetsActivity.java:

```java
package com.example.betufcapp;
import android.app.AlertDialog;
import android.content.DialogInterface;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.Toast;
import java.util.Random;
import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import java.util.ArrayList;


public class ViewMyBetsActivity extends AppCompatActivity {

    ArrayList<MyBetDTO> dtoArrayList;
    RecyclerView recyclerView;
    MyBetsViewAdapter viewAdapter;
    DbHelper dbHelper;
    ExtraMethods extraMethods;
    TextView totalBetTextView;
    TextView totalPayoutTextView;
    Boolean showPayOut = false;
    Button simulatePayout;
    DbQueries ds;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        Bundle extras = getIntent().getExtras();
        extraMethods = new ExtraMethods();
        super.onCreate(savedInstanceState);
        dbHelper = new DbHelper(this);
        setContentView(R.layout.view_my_bets_list);
        goBack();
```

```java
        dbHelper = new DbHelper(this);
        ds = new DbQueries(this);
        totalBetTextView = findViewById(R.id.totalSpent);
        totalPayoutTextView = findViewById(R.id.totalPayout);
        simulatePayout = findViewById(R.id.simulatePayout);

        try {
            ds.open();
            dtoArrayList = ds.getMyBets();
            ds.close();
            if(extras != null) {
                int testInt = extras.getInt("simulatePayout");
                dtoArrayList = simulateFights();
                showPayOut = true;
            }
            if (dtoArrayList.size() > 0) {
                recyclerView = findViewById(R.id.betsList);
                RecyclerView.LayoutManager layoutManager = new LinearLayoutManager(this);
                recyclerView.setLayoutManager(layoutManager);
                viewAdapter = new MyBetsViewAdapter(dtoArrayList, this, showPayOut);
                recyclerView.setAdapter(viewAdapter);
            }
            else {
                /*Intent intent = new Intent(ActiveFightsDisplay.this, BetPageActivity.class);
                startActivity(intent);*/
            }
        }
        catch (Exception e) {
            Toast.makeText(this, "Error retrieving contacts", Toast.LENGTH_LONG).show();
        }
        listenForSimulatePayout();
    }

    @Override
    public void onResume() {
        super.onResume();

    }

    private void goBack() {
        Button goBack = findViewById(R.id.goBack);
        goBack.setOnClickListener(v -> {
            Intent intent = new Intent(ViewMyBetsActivity.this, ActiveFightsDisplay.class);
            startActivity(intent);
```

```java
        });
    }

    private void listenForSimulatePayout() {
        Button simPay = findViewById(R.id.simulatePayout);
        simPay.setOnClickListener(v -> {
            if (dtoArrayList.size() == 0){
            displayAlert();
            }
            else{
                Intent intent = new Intent(ViewMyBetsActivity.this, ViewMyBetsActivity.class);
                intent.putExtra("simulatePayout", 1);
                startActivity(intent);
            }
        });
    }

    private ArrayList<MyBetDTO> simulateFights(){
        ArrayList<MyBetDTO> arrayList = new ArrayList<MyBetDTO>();
        double totalBet = 0;
        double payoutTotal = 0;
        for (MyBetDTO dto : dtoArrayList) {
            MyBetDTO temp = new MyBetDTO();
            Random random = new Random();
            int fightWinner = random.nextInt(2) + 1; // Generates a random integer between 1 and 2
            if (fightWinner == dto.getFighterPick()){
                temp.setDidUserWin(true);
                if (dto.getFighterPick() == 1){
                    payoutTotal +=
extraMethods.calculateWinningAmountDouble(dto.getBetAmount(),Double.parseDouble(dto.get
FightCard().getFighterOneOdds()));
                }
                else{
                    payoutTotal +=
extraMethods.calculateWinningAmountDouble(dto.getBetAmount(),Double.parseDouble(dto.get
FightCard().getFighterTwoOdds()));
                }
            }
            else{
                temp.setDidUserWin(false);
                payoutTotal -= dto.getBetAmount();
            }
            temp.setBetAmount(dto.getBetAmount());
            totalBet += dto.getBetAmount();
```

```java
            temp.setFighterPick(dto.getFighterPick());
            temp.setFightCard(dto.getFightCard());
            arrayList.add(temp);
        }
        totalBetTextView.setVisibility(View.VISIBLE);
        totalPayoutTextView.setVisibility(View.VISIBLE);
        totalBetTextView.setText("Total Spent : "+ extraMethods.formattedCurrency(totalBet));
        totalPayoutTextView.setText("Total Payout : "+
extraMethods.formattedCurrency(payoutTotal));
        simulatePayout.setVisibility(View.INVISIBLE);
        clearBetDB();
        return arrayList;
    }

    private void clearBetDB(){
        try
        {
            ds.open();
            ds.removeAllBets();
            ds.close();
        }
        catch (Exception e){


        }



    }

    private void displayAlert(){
        AlertDialog.Builder builder = new AlertDialog.Builder(this);
        builder.setMessage("No Fights have been bet on yet.");
        builder.setPositiveButton("OK", new DialogInterface.OnClickListener() {
            @Override
            public void onClick(DialogInterface dialogInterface, int i) {
                // Close the dialog box
                dialogInterface.dismiss();
            }
        });
        AlertDialog dialog = builder.create();
        dialog.show();
    }
}
```

add_fight_to_db.xml:

```xml
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".BetPageActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Start Time"
        android:textStyle="bold"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.088"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.654" />

    <EditText
        android:id="@+id/f2Odds"
        android:layout_width="174dp"
        android:layout_height="51dp"
        android:hint="Enter F2 Odds"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.81"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.538" />

    <EditText
        android:id="@+id/f2Name"
        android:layout_width="174dp"
        android:layout_height="51dp"
        android:hint="Enter F2 Name"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.81"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
```

```xml
        app:layout_constraintVertical_bias="0.41" />

    <EditText
        android:id="@+id/startTime"
        android:layout_width="174dp"
        android:layout_height="51dp"
        android:hint="Enter Start Time"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.81"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.663" />

    <EditText
        android:id="@+id/f1Odds"
        android:layout_width="174dp"
        android:layout_height="51dp"
        android:hint="Enter F1 Odds"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.81"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.294" />

    <TextView
        android:id="@+id/textView4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Amount : "
        android:textSize="20sp"
        android:visibility="gone"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.062"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.768" />


    <EditText
        android:id="@+id/f1Name"
        android:layout_width="174dp"
```

```xml
        android:layout_height="51dp"
        android:hint="Enter F1 Name"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.81"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.155" />

    <TextView
        android:id="@+id/textView5"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Possible Winning : "
        android:visibility="gone"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.801"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.768" />

    <TextView
        android:id="@+id/fighterOneName"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Fighter One Name"
        android:textSize="20sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.052"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.167" />

    <TextView
        android:id="@+id/fighterTwoName"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Fighter Two Odds"
        android:textStyle="bold"
        android:textSize="20sp"
```

```xml
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.051"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.531" />

    <TextView
        android:id="@+id/fighterTwoOdds"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Fighter Two Name"
        android:textStyle="bold"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.052"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.413" />

    <TextView
        android:id="@+id/fighterOneOdds"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Fighter One Odds"
        android:textStyle="bold"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.05"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.295" />

    <Button
        android:id="@+id/addFight"
        android:layout_width="188dp"
        android:layout_height="72dp"
        android:layout_marginBottom="104dp"
        android:text="Add Fight"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.618"
```

```
                app:layout_constraintStart_toStartOf="parent" />

        <Button
            android:id="@+id/goBack"
            android:layout_width="101dp"
            android:layout_height="42dp"
            android:text="Go Back"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="1.0"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_bias="0.005" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

fight_card_list.xml:
```
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".ActiveFightsDisplay">

    <androidx.constraintlayout.widget.ConstraintLayout
        android:id="@+id/constraintLayout"
        android:layout_width="match_parent"
        android:layout_height="50dp"
        android:background="@color/black"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent">

        <Button
            android:id="@+id/buttonAddFight"
            android:layout_width="129dp"
            android:layout_height="41dp"
            android:layout_marginEnd="24dp"
            android:text="Add Fights Admin Only"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintTop_toTopOf="parent"
```

```xml
                  app:layout_constraintVertical_bias="0.555" />

        <Button
            android:id="@+id/viewMyBets"
            android:layout_width="148dp"
            android:layout_height="42dp"
            android:layout_marginEnd="244dp"
            android:text="View My Bets"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintTop_toTopOf="parent" />
    </androidx.constraintlayout.widget.ConstraintLayout>

    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/fightsList"
        android:layout_width="408dp"
        android:layout_height="697dp"
        android:layout_marginStart="8dp"
        android:layout_marginBottom="8dp"
        app:layout_constraintBottom_toTopOf="@+id/linearLayout"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="1.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="1.0"
        tools:ignore="SpeakableTextPresentCheck" />

    <LinearLayout
        android:id="@+id/linearLayout"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:background="@color/navbar_background"
        android:orientation="horizontal"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

fight_card_list_item.xml:

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
```

```xml
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:background="@color/navbar_background"
    android:layout_width="match_parent"
    android:layout_height="wrap_content">

    <TextView
        android:id="@+id/fighterOne"
        android:layout_width="104dp"
        android:layout_height="57dp"
        android:layout_marginStart="24dp"
        android:layout_marginTop="8dp"
        android:text="Fighter One"
        android:textAlignment="center"
        android:textColor="@color/white"
        android:textSize="@dimen/text_size_large"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />


    <TextView
        android:id="@+id/fighterOneOdds"
        android:layout_width="84dp"
        android:layout_height="50dp"
        android:layout_marginStart="32dp"
        android:layout_marginTop="76dp"
        android:text="F1 Odds"
        android:textAlignment="center"
        android:textColor="@color/white"
        android:textSize="@dimen/text_size_large"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/fighterTwoOdds"
        android:layout_width="86dp"
        android:layout_height="34dp"
        android:layout_marginStart="288dp"
        android:layout_marginTop="76dp"
        android:text="F2 Odds"
        android:textAlignment="center"
        android:textColor="@color/white"
        android:textSize="@dimen/text_size_large"
        app:layout_constraintStart_toStartOf="parent"
```

```
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/startingTime"
        android:layout_width="109dp"
        android:layout_height="29dp"
        android:layout_marginStart="148dp"
        android:layout_marginTop="8dp"
        android:text="Time"
        android:textAlignment="center"
        android:textColor="#8BC34A"
        android:textSize="@dimen/text_size_large"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:layout_width="42dp"
        android:layout_height="34dp"
        android:layout_marginStart="184dp"
        android:layout_marginTop="60dp"
        android:text="VS"
        android:textAlignment="center"
        android:textColor="@color/white"
        android:textSize="@dimen/text_size_large"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/fighterTwo"
        android:layout_width="110dp"
        android:layout_height="54dp"
        android:layout_marginStart="276dp"
        android:layout_marginTop="8dp"
        android:text="Fighter Two"
        android:textAlignment="center"
        android:textColor="@color/white"
        android:textSize="@dimen/text_size_large"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <View
        android:layout_width="match_parent"
        android:layout_height="10dp"
```

```
        android:background="#FFFFFF"
        android:layout_marginTop="16dp"
        app:layout_constraintBottom_toBottomOf="parent"
        tools:layout_editor_absoluteX="0dp" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

main_betting_page.xml:

```
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".BetPageActivity">

    <TextView
        android:id="@+id/amount"
        android:layout_width="413dp"
        android:layout_height="36dp"
        android:text="Amount : "
        android:textAlignment="center"
        android:visibility="gone"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.058"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.779" />

    <TextView
        android:id="@+id/possibleWinning"
        android:layout_width="409dp"
        android:layout_height="33dp"
        android:text="Possible Winning : "
        android:visibility="gone"
        android:textAlignment="center"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
```

```xml
        app:layout_constraintHorizontal_bias="0.103"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.843" />

    <TextView
        android:id="@+id/fighterOneName"
        android:layout_width="179dp"
        android:layout_height="29dp"
        android:text="Fighter One Name"
        android:textAlignment="center"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.294" />

    <TextView
        android:id="@+id/fighterTwoName"
        android:layout_width="177dp"
        android:layout_height="31dp"
        android:text="Fighter Two Name"
        android:textAlignment="center"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="1.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.292" />

    <TextView
        android:id="@+id/fighterTwoOdds"
        android:layout_width="178dp"
        android:layout_height="36dp"
        android:text="Fighter Two Odds"
        android:textAlignment="center"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="1.0"
        app:layout_constraintStart_toStartOf="parent"
```

```xml
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.411" />

    <EditText
        android:id="@+id/bet_amount"
        android:layout_width="166dp"
        android:layout_height="53dp"
        android:hint="Enter Bet Amount"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.579" />

    <TextView
        android:id="@+id/fighterOneOdds"
        android:layout_width="178dp"
        android:layout_height="32dp"
        android:text="Fighter One Odds"
        android:textAlignment="center"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.409" />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="VS"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.502"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.353" />

    <Button
        android:id="@+id/submit_bet_button"
        android:layout_width="188dp"
```

```xml
        android:layout_height="72dp"
        android:text="Submit Bet"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.928"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.975" />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Select Fighter:"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.106" />

    <Button
        android:id="@+id/go_to_listOfDishes_button"
        android:layout_width="101dp"
        android:layout_height="42dp"
        android:text="Go Back"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="1.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.005" />

    <Button
        android:id="@+id/preview_winnings"
        android:layout_width="200dp"
        android:layout_height="63dp"
        android:text="Preview Possible Winning"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.688" />
```

```xml
    <androidx.appcompat.widget.SwitchCompat
        android:id="@+id/switchFighterOne"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="64dp"
        android:minHeight="48dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.175" />

    <androidx.appcompat.widget.SwitchCompat
        android:id="@+id/switchFighterTwo"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="292dp"
        android:minHeight="48dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.175" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

my_bets_list_item.xml:
```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="190dp"
    android:background="@android:color/black">


    <TextView
        android:id="@+id/betWon"
        android:layout_width="69dp"
        android:layout_height="53dp"
        android:layout_marginStart="324dp"
        android:layout_marginTop="120dp"
```

```xml
        android:text="Won Loss"
        android:visibility="gone"
        android:textColor="@color/white"
        android:textSize="@dimen/text_size_large"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/potentialPayout"
        android:layout_width="273dp"
        android:layout_height="33dp"
        android:layout_marginStart="20dp"
        android:layout_marginTop="140dp"
        android:text="Potential Payout : "
        android:textColor="#009688"
        android:textSize="@dimen/text_size_large"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/MatchTittle"
        android:layout_width="363dp"
        android:layout_height="42dp"
        android:layout_marginStart="16dp"
        android:layout_marginTop="16dp"
        android:text="Fighter One vs Fighter Two"
        android:textAlignment="center"
        android:textColor="@color/white"
        android:textSize="@dimen/text_size_large"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/myFighterOdds"
        android:layout_width="86dp"
        android:layout_height="34dp"
        android:layout_marginStart="292dp"
        android:layout_marginTop="64dp"
        android:text="F2 Odds"
        android:textColor="@color/white"
        android:textSize="@dimen/text_size_large"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
```

```xml
    <TextView
        android:id="@+id/betAmount"
        android:layout_width="258dp"
        android:layout_height="36dp"
        android:layout_marginStart="20dp"
        android:layout_marginTop="100dp"
        android:text="Bet Amount : "
        android:textColor="#009688"
        android:textSize="@dimen/text_size_large"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/myFighterPick"
        android:layout_width="262dp"
        android:layout_height="37dp"
        android:layout_marginStart="20dp"
        android:layout_marginTop="64dp"
        android:text="My Pick : Fighter "
        android:textColor="@color/white"
        android:textSize="@dimen/text_size_large"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <View
        android:layout_width="match_parent"
        android:layout_height="10dp"

        android:background="#FFFFFF"
        android:layout_marginTop="16dp"
        app:layout_constraintBottom_toBottomOf="parent"
        tools:layout_editor_absoluteX="0dp" />


</androidx.constraintlayout.widget.ConstraintLayout>
```

view_my_bets_list.xml:

```xml
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
```

```xml
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".ActiveFightsDisplay">

    <androidx.constraintlayout.widget.ConstraintLayout
        android:id="@+id/constraintLayout"
        android:layout_width="match_parent"
        android:layout_height="50dp"
        android:background="@color/black"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent">

        <Button
            android:id="@+id/goBack"
            android:layout_width="103dp"
            android:layout_height="37dp"
            android:layout_marginEnd="24dp"
            android:text="Go Back"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_bias="0.538" />

        <Button
            android:id="@+id/simulatePayout"
            android:layout_width="178dp"
            android:layout_height="38dp"
            android:layout_marginEnd="216dp"
            android:text="Simulate Payout"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintTop_toTopOf="parent" />

    </androidx.constraintlayout.widget.ConstraintLayout>

    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/betsList"
        android:layout_width="375dp"
        android:layout_height="578dp"
        android:layout_marginEnd="8dp"
```

```
        android:layout_marginBottom="8dp"
        app:layout_constraintBottom_toTopOf="@+id/linearLayout"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.714"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.4"
        tools:ignore="SpeakableTextPresentCheck" />

    <LinearLayout
        android:id="@+id/linearLayout"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:background="@color/navbar_background"
        android:orientation="horizontal"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent" />

    <TextView
        android:id="@+id/totalSpent"
        android:layout_width="394dp"
        android:layout_height="34dp"
        android:text="Total Spent : "
        android:textAlignment="center"
        android:textSize="25sp"
        android:textStyle="bold"
        android:visibility="invisible"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="1.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.929" />

    <TextView
        android:id="@+id/totalPayout"
        android:layout_width="394dp"
        android:layout_height="34dp"
        android:text="Total Payout : "
        android:textAlignment="center"
        android:textSize="25sp"
        android:textStyle="bold"
        android:visibility="invisible"
```

```xml
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="1.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.978" />

</androidx.constraintlayout.widget.ConstraintLayout>
```