

ANDROID STUDIO PROJECT

Programmation mobile

2020

BOURGET ADRIEN

MADER JEAN-BAPTISTE

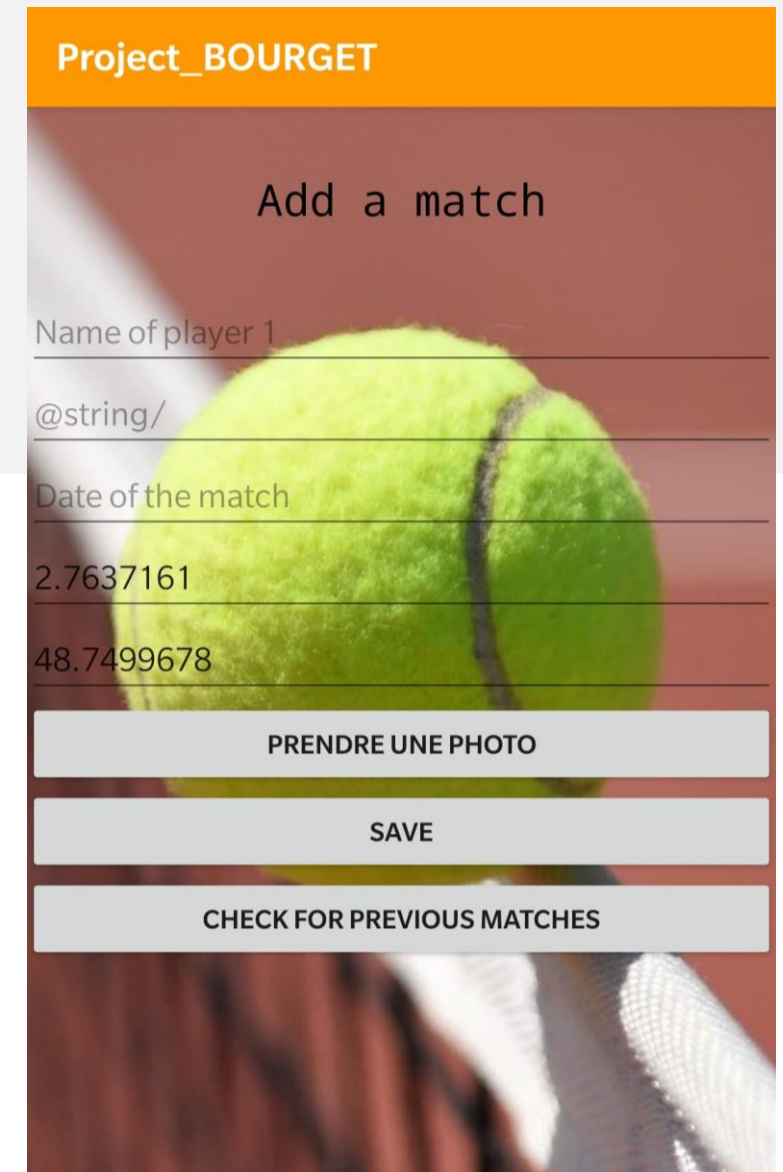
<https://github.com/adritoo/mobile-programming>



List of implemented functions

Ergonomic interface (use activities,
menus, ...) that adapts to
landscape and portrait modes

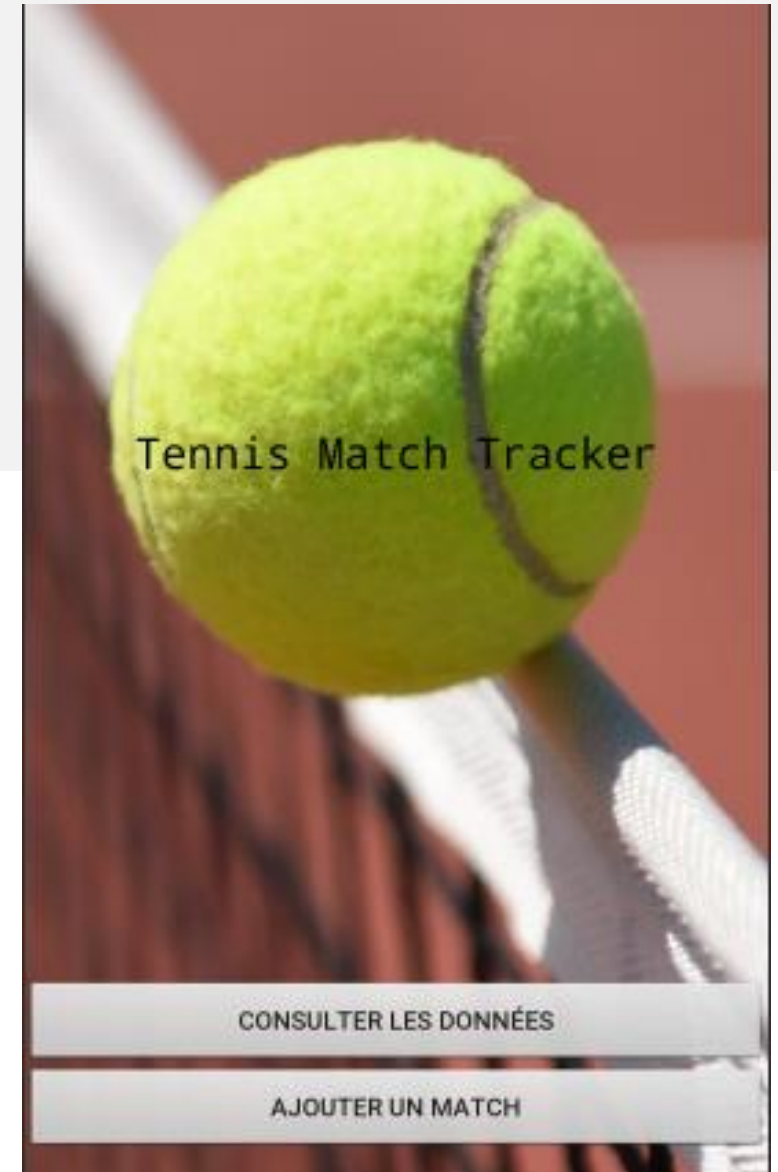
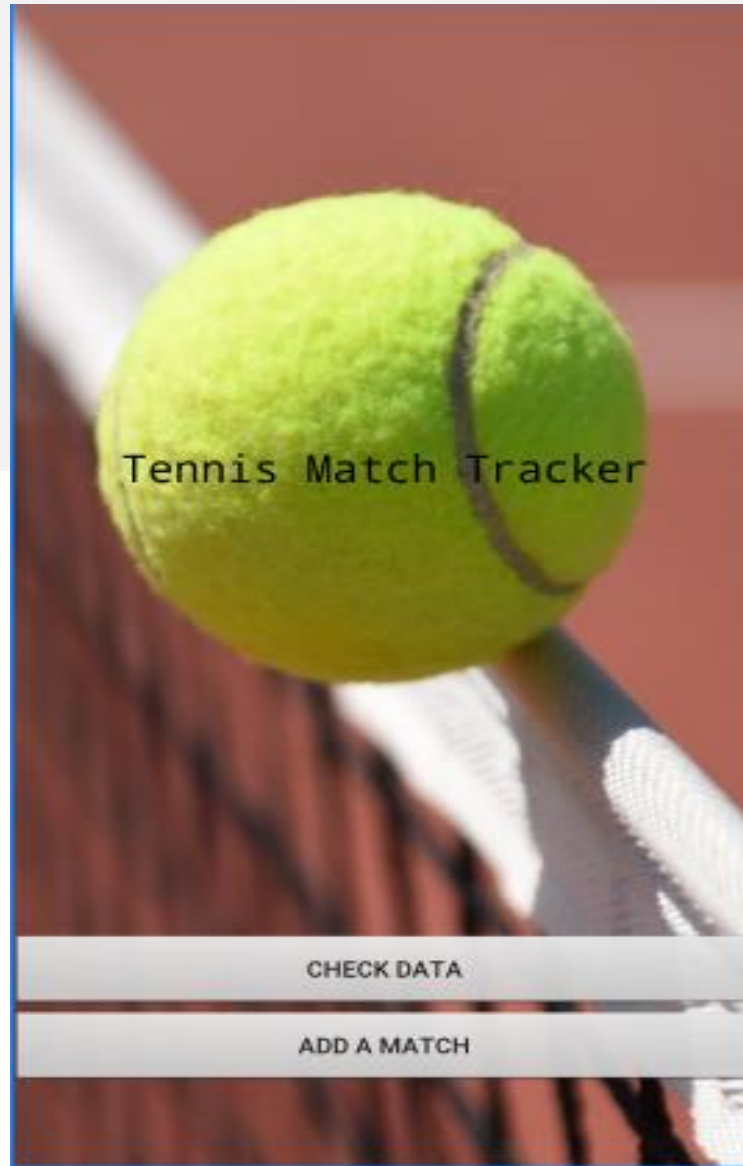
Example of the menu and
AddMatchPage





List of implemented functions

Displays the content in French or English depending on the underlying system configuration





List of implemented functions

- Locate the matches (latitude, longitude)

Project_BOURGET

Add a match

Name of player 1

@string/

Date of the match

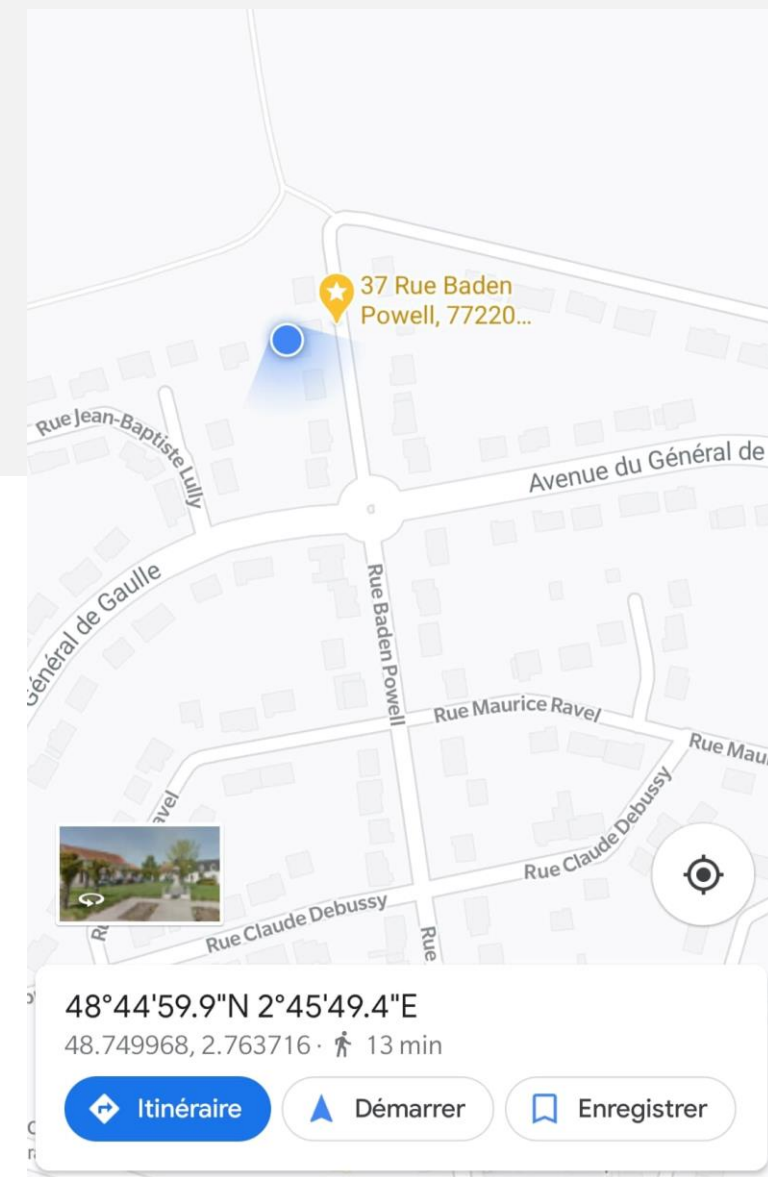
2.7637161

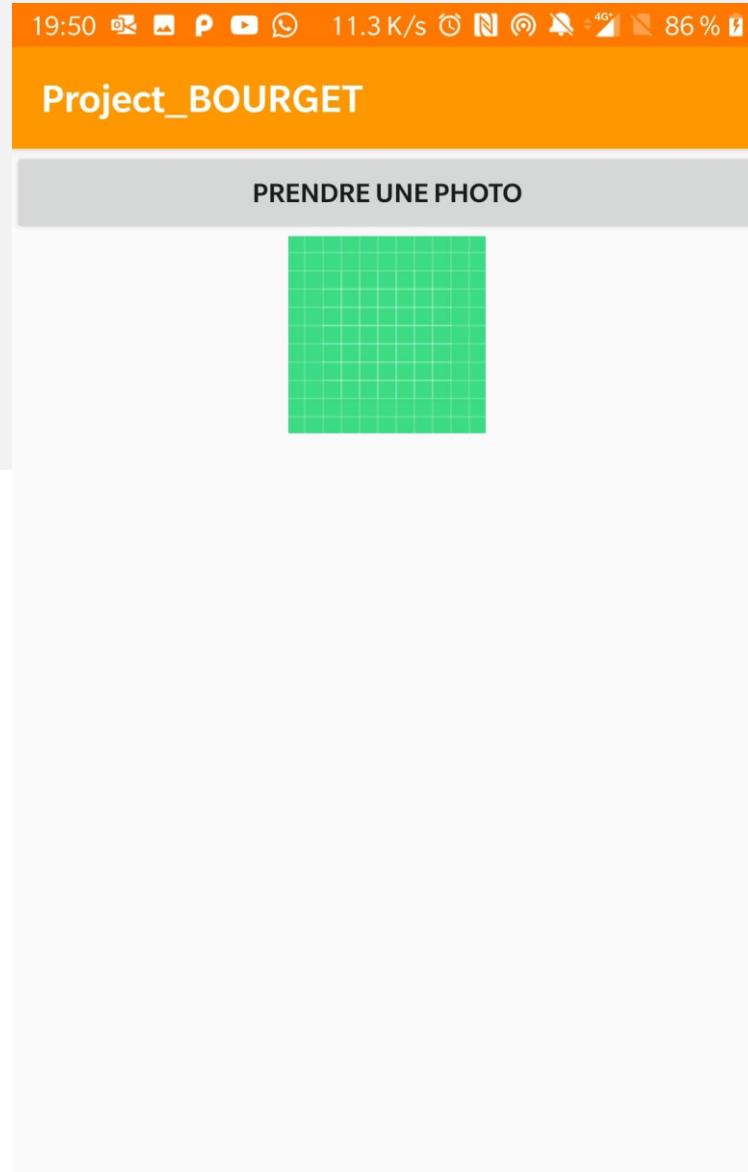
48.7499678

PRENDRE UNE PHOTO

SAVE

CHECK FOR PREVIOUS MATCHES





LIST OF IMPLEMENTED FUNCTIONS

- Take pictures of the match and save them locally.



LIST OF IMPLEMENTED FUNCTIONS

- Save statistics locally for 5 previous matches (in a sqlite database)


```

public boolean addData(String player1, String player2, String date, String longitude, String latitude){
    SQLiteDatabase db = this.getWritableDatabase();
    ContentValues values = new ContentValues();
    values.put(COL2, player1);
    values.put(COL3, player2);
    values.put(COL4, date);
    values.put(COL5, latitude);
    values.put(COL6, longitude);
    Log.d(TAG, msg: "addData: Adding " + player1 + " to " + TABLE_NAME);
    Log.d(TAG, msg: "addData: Adding " + player2 + " to " + TABLE_NAME);
    Log.d(TAG, msg: "addData: Adding " + date + " to " + TABLE_NAME);
    Log.d(TAG, msg: "addData: Adding " + latitude + " to " + TABLE_NAME);
    Log.d(TAG, msg: "addData: Adding " + longitude + " to " + TABLE_NAME);
    long result = db.insert(TABLE_NAME, nullColumnHack: null, values);

    return result != (-1);
}

```

```

public DatabaseHelper(Context context){
    super(context, TABLE_NAME, factory: null, version: 4);
}

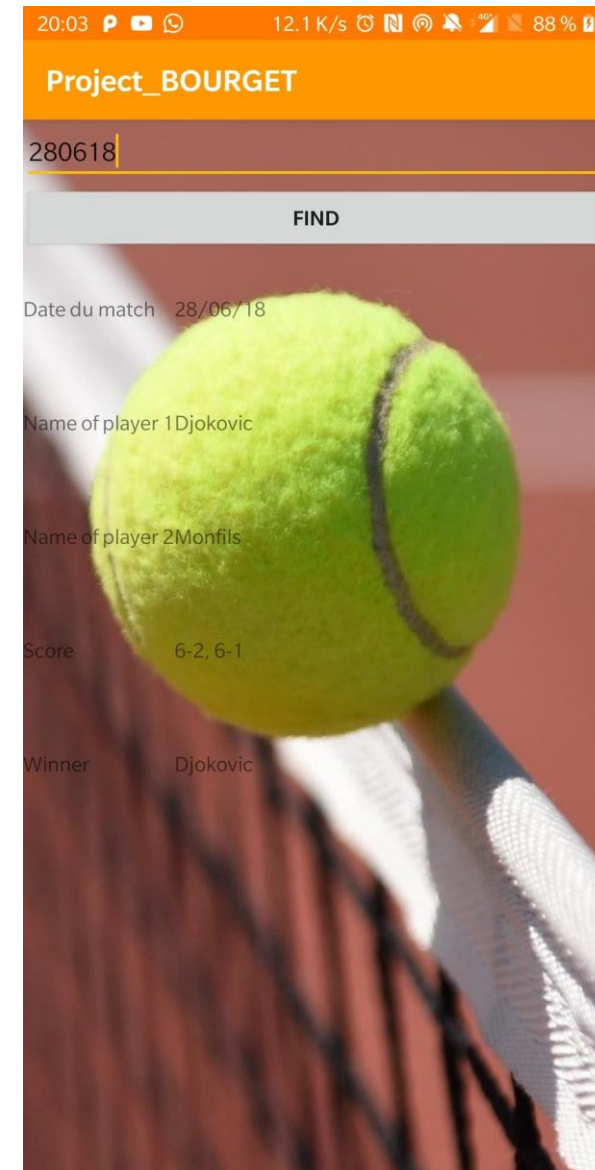
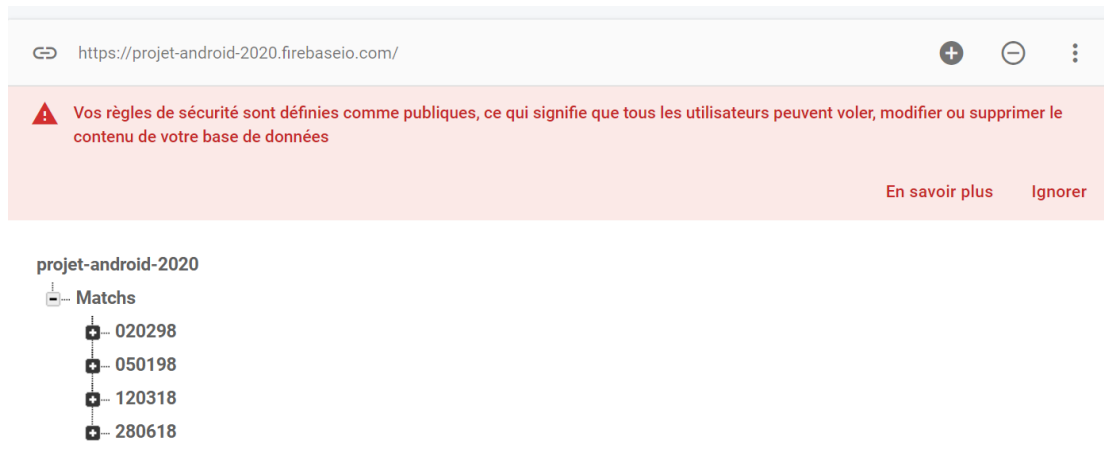
@Override
public void onCreate(SQLiteDatabase db) {
    String createTable = "CREATE TABLE " + TABLE_NAME + "( ID INTEGER PRIMARY KEY AUTOINCREMENT, " + COL2 + " TEXT, "
        + COL3 + " TEXT, " + COL4 + " TEXT, " + COL5 + " TEXT, " + COL6 + " TEXT"+ ");";
    db.execSQL(createTable);
}

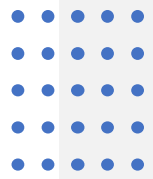
```



LIST OF IMPLEMENTED FUNCTIONS

- Be able to display information about any previous match (read the information from the local database or the distant one), keyword search.





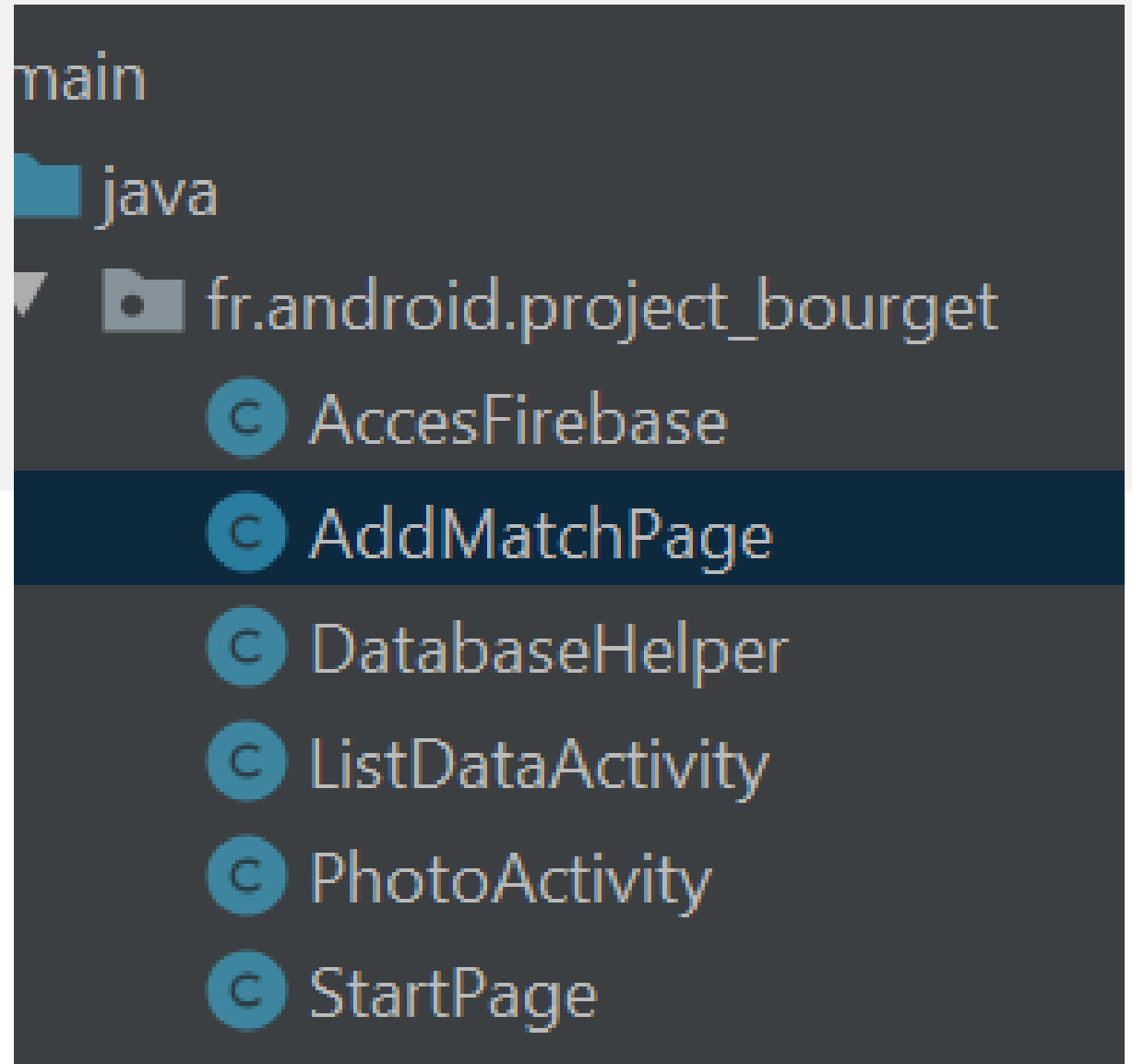
POSSIBLE IMPROVEMENTS

- Improve design and ergonomics
- Use sockets to display a real database
- Display a map of the geolocation.
- Translate the coordinates into a real street address.





APP ARCHITECTURE AND IMPLEMENTATION

- One .java file per page :
- Menu: StartPage
- Add math: AdddMatchPage
- Consult Data: AccesFirebase



■ layout

  acces_firebase.xml

  activity_add_match_page.xml

  activity_main.xml

  list_layout.xml

  starting_page.xml

XML file for
each page

APP ARCHITECTURE AND IMPLEMENTATION

```
protected void initActivity(){  
    btnAddMatch = findViewById(R.id.btnAddMatch);  
    btnAccesData = findViewById(R.id.btnAccesData);  
    createOnClickAddMatch();  
    createOnClickAccesData();  
}
```

```
private void createOnClickAddMatch(){  
    btnAddMatch.setOnClickListener((v) → { addMatch(); });  
}  
  
private void createOnClickAccesData(){  
    btnAccesData.setOnClickListener((v) → { accesData(); });  
}  
  
private void addMatch(){  
    startActivity(new Intent( packageContext: this, AddMatchPage.class));  
}  
  
private void accesData(){  
    startActivity(new Intent( packageContext: this, AccesFirebase.class));  
}
```