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Vision Statement

Making it easier for CU students to find and participate in events on campus

Methodologies

Agile and Peer Code Review

- Tried to work sequentially/iteratively, but would respond to a particular issue if it was a dependency
- If issue was not a dependency or didn't have high priority, would skip it and come back
- Helped each other fix bugs

Tools

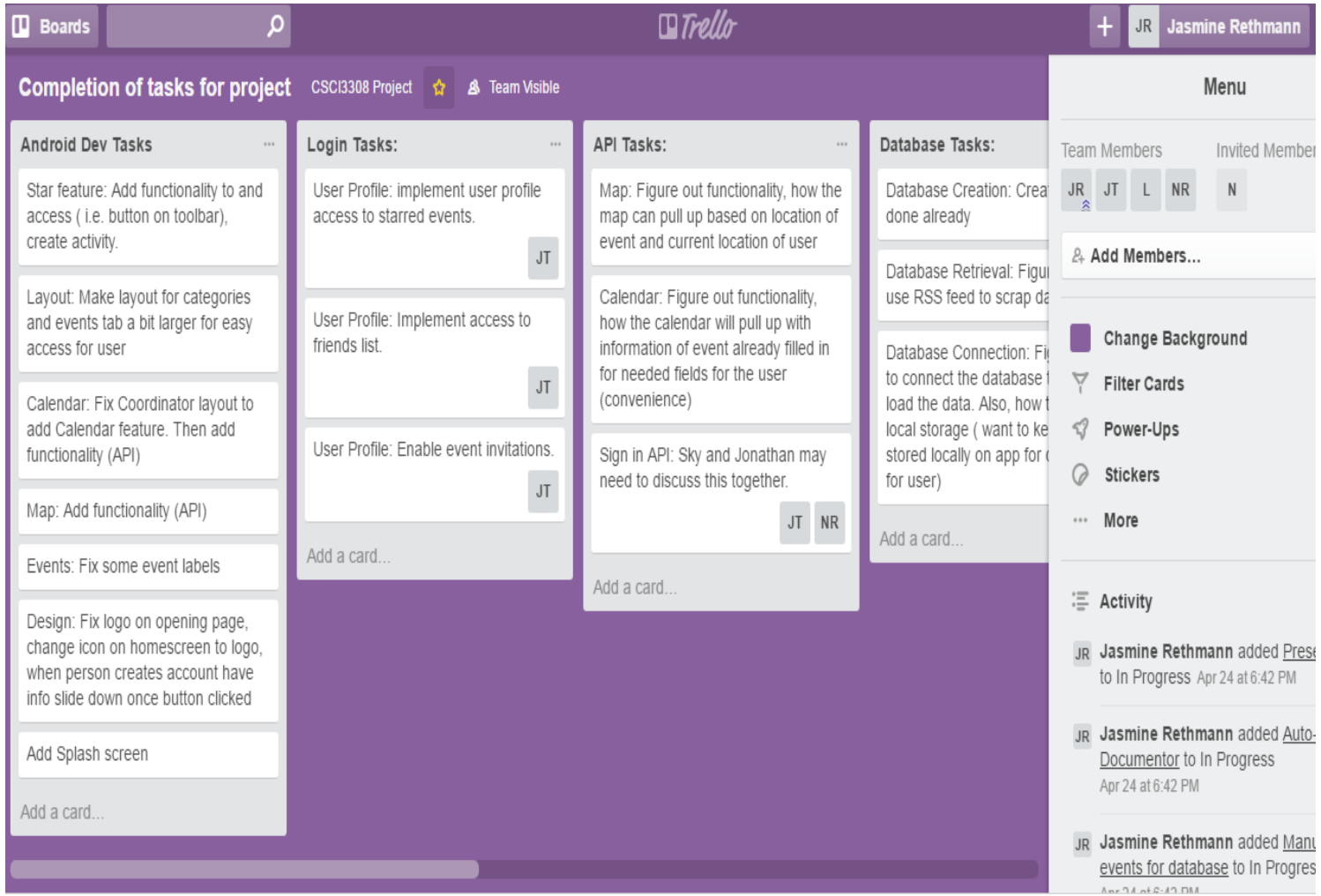
Project Tracker

Trello

Purpose:

Kept track of parts of the project that needed to be finished

3.5



VCS Repository

Purpose:
Save project-related work for group to easily access

4

Computer-Girl / 3308Project

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Code | Issues 0 | Pull requests 1 | Projects 0 | Wiki | Pulse | Graphs | Settings

Branch: master | Find file | Copy path

3308Project / LetsGoApp2 / app / src / main / java / dachman / lucas / letsgoapp2 / EventGenerator.java

LucasDachman Fixed bug where events are shown multiple times 6e3f219 4 days ago

1 contributor

81 lines (64 sloc) | 2.53 KB | Raw | Blame | History

```
1  package dachman.lucas.letsgoapp2;
2
3  import android.content.Context;
4
5  import java.util.ArrayList;
6  import java.util.Date;
7  import java.util.Random;
8  import java.util.concurrent.ThreadLocalRandom;
9
10 import dachman.lucas.letsgoapp2.Models.Category;
11 import dachman.lucas.letsgoapp2.Models.Event;
12
13 /**
14  * Created by lucas on 3/8/17.
15  * Badly written event generator class for testing
16  */
17
18 public class EventGenerator {
```

Database

Purpose:

To store information for events

4

```
public class CreateDatabase extends SQLiteOpenHelper{

    public static final String TABLE_EVENTS = "events";
    public static final String COLUMN_ID = "id";
    public static final String COLUMN_NAME = "name";
    public static final String COLUMN_ORGANIZER = "organizer";
    public static final String COLUMN_CATEGORY = "category";
    public static final String COLUMN_DESCRIPTION = "description";
    public static final String COLUMN_DATE = "date";
    public static final String COLUMN_STAR = "star";
    public static final String COLUMN_LOCATION = "location";

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

    private static final String DATABASE_CREATE = "create table "
            + TABLE_EVENTS + "( " +
            COLUMN_ID + " integer primary key autoincrement, " +
            COLUMN_NAME + " text , " +
            COLUMN_ORGANIZER + " text, " +
            COLUMN_CATEGORY + " text , " +
            COLUMN_DESCRIPTION + " text , " +
            COLUMN_DATE + " text , " +
            COLUMN_STAR + " integer , " +
            COLUMN_LOCATION + "text );";

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

Online Framework

Purpose:

To store information for events

4

D:\Dropbox\backend\3308Project\app.py - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

Graph.hpp | Graph.cpp | config | djent.rp355p | REDNECK.rp355p | tsh.cc | README.txt | tsh.cc | new 9 | EventGenerator.java | app.py

```python
import os
import psycopg2
import psycopg2.extras
from flask import Flask, request, jsonify
from flask.ext.sqlalchemy import SQLAlchemy

app = Flask(__name__)
app.config['SQLALCHEMY_DATABASE_URI'] = os.environ['DATABASE_URL']
db = SQLAlchemy(app)

class events(db.Model):
    __tablename__ = 'events'
    id = db.Column('id', db.Integer, primary_key = True)
    name = db.Column('name',db.Text)
    category = db.Column('category',db.Text)
    location = db.Column('location',db.Text)
    organizer = db.Column('organizer',db.Text)
    description = db.Column('description',db.Text)
    date = db.Column('date',db.Text)
    star = db.Column('star',db.Integer)

listevents = events.query.all()

final = {"events":[]}

for k in listevents:
    f_list = {"id":[],"name":[],"category":[],"location":[],"organizer":[],"description":[],"date":[],"star":[]}
    f_list["id"].append(k.id)
    f_list["name"].append(k.name)
    f_list["category"].append(k.category)
    f_list["location"].append(k.location)
    f_list["organizer"].append(k.organizer)
    f_list["description"].append(k.description)
    f_list["date"].append(k.date)
    f_list["star"].append(k.star)
    final["events"].append(f_list)
#COMMENT

@app.route('/', methods=['GET','POST'])
def index():
    return jsonify(final)

if __name__ == "__main__":
    app.run()
```

Python file | length : 1,311 lines : 45 | Ln : 13 Col : 57 Sel : 0 | 0 | Windows (CR LF) | UTF-8 | INS

Testing

JUnit

Purpose:

Used these frameworks to develop unit tests for the code

5

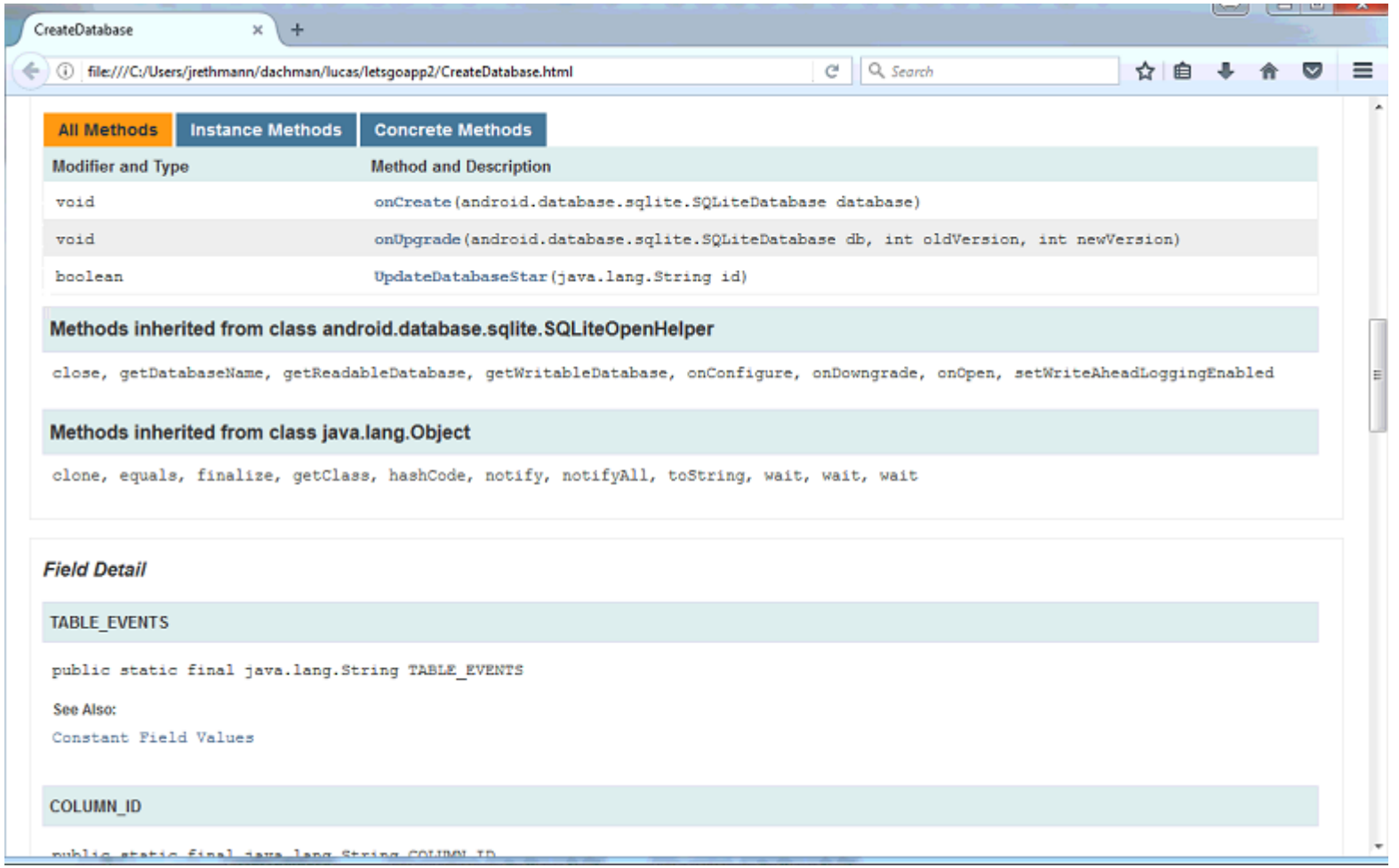
```
30  @RunWith(AndroidJUnit4.class)
31  public class EventViewActivityTest {
32
33      @Rule
34      public ActivityTestRule<EventViewActivity> eventViewActivityActivityTestRule = new
35              ActivityTestRule<EventViewActivity>(EventViewActivity.class);
36
37
38      @Test
39      public void testCase2UI()
40      {
41  //checks for UI, such as text views, the buttons toolbar for the user. .
42          Activity activity = eventViewActivityActivityTestRule.getActivity();
43
44          assertNotNull(activity.findViewById(R.id.Google_plus));
45
46          assertNotNull(activity.findViewById(R.id.star_button));
47
48          assertNotNull(activity.findViewById(R.id.content_event_view));
49
50          TextView nameView = (TextView) activity.findViewById(R.id.event_view_organizerName);
51          TextView dateView = (TextView) activity.findViewById(R.id.event_view_date);
52          TextView locationView = (TextView) activity.findViewById(R.id.event_view_location);
53          TextView depView = (TextView) activity.findViewById(R.id.event_view_description);
54
55          assertTrue(nameView.isShown());
56          assertTrue(dateView.isShown());
57          assertTrue(locationView.isShown());
58          assertTrue(depView.isShown());
59
```

Auto-Documenter

Purpose:

To gather all comments and summaries of code

4

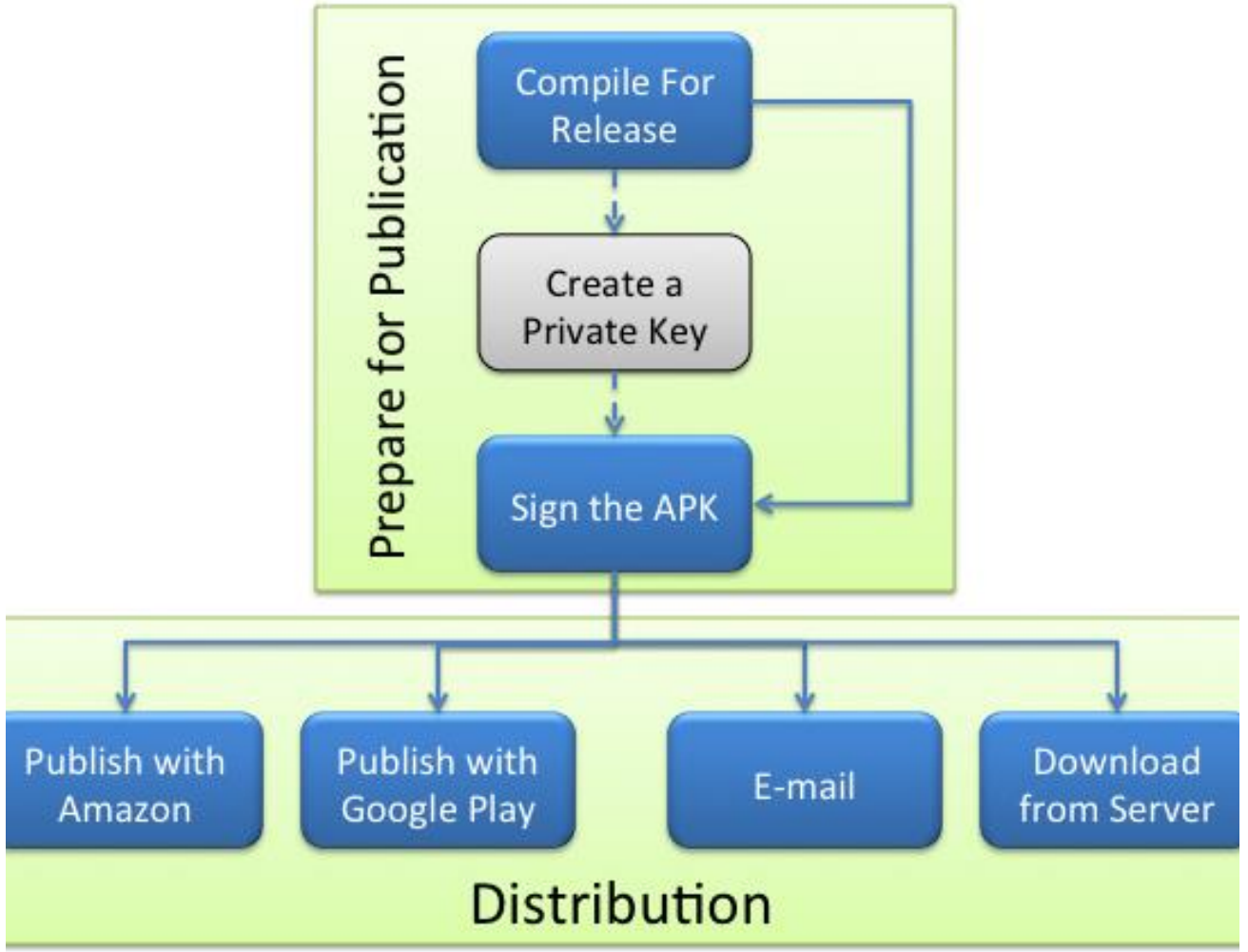


Deployment Environment

Purpose:

To test and run the app

4



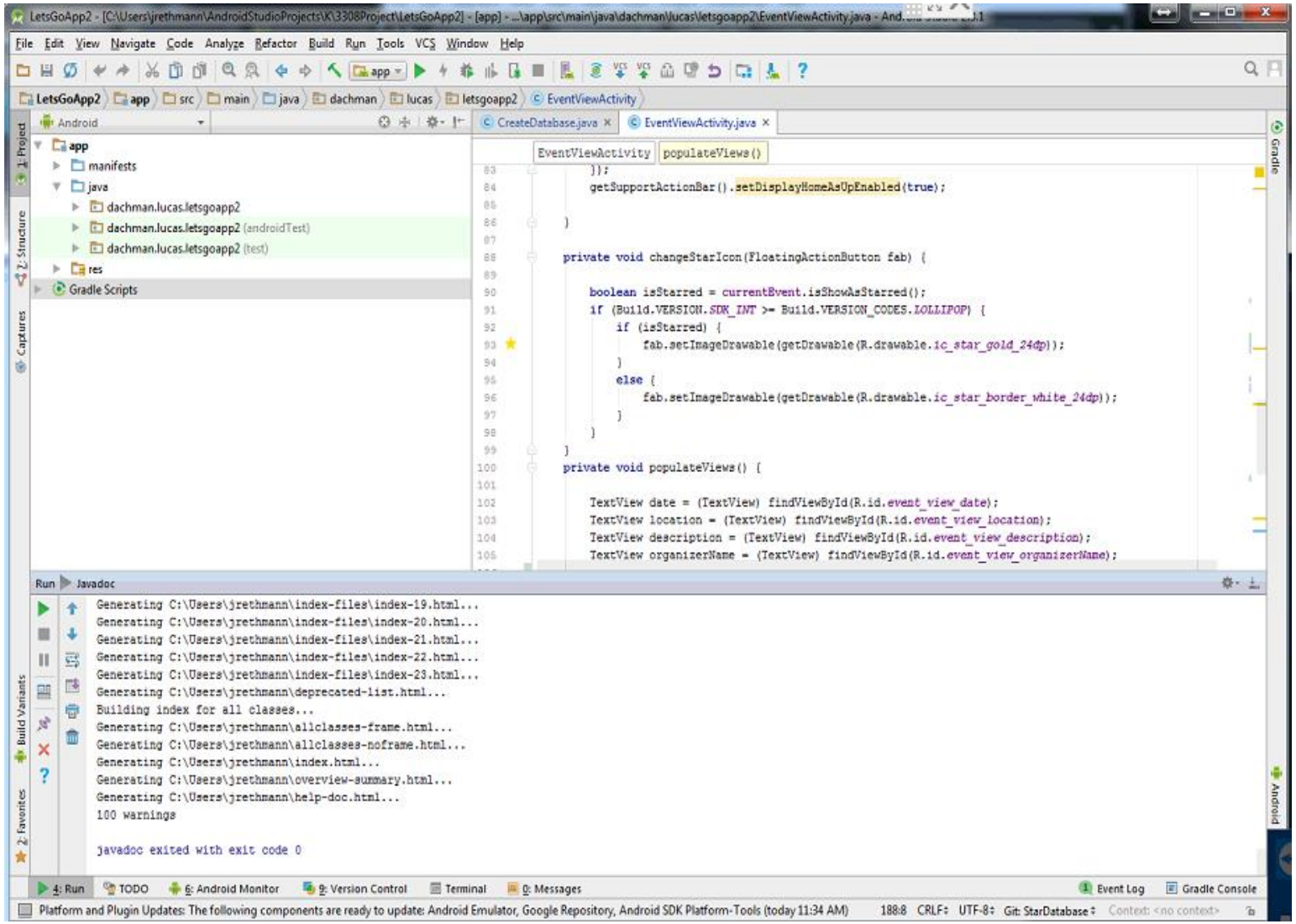
Framework

Android Studio

Purpose:

We used this to develop the code needed for the app

3



Challenges

Challenges

- Integration
  - We took care of different parts separately, so integrating them caused conflicts/bugs
  - Used peer review in person/team viewer to fix
- Friends feature
  - More complex to develop
  - Decided that it wasn't needed for the purpose of the app
- Off campus events
  - More concerned with on campus events
  - Didn't deem it to be necessary for original purpose

Future Improvements

Future Improvements

- Add a friends feature
- Try a different Framework for development
- Use the project tracker more efficiently
- Add an option for off campus events

Questions so far?

Demo