Getting started with

Android App Development

with **Zakaria Chowdhury**

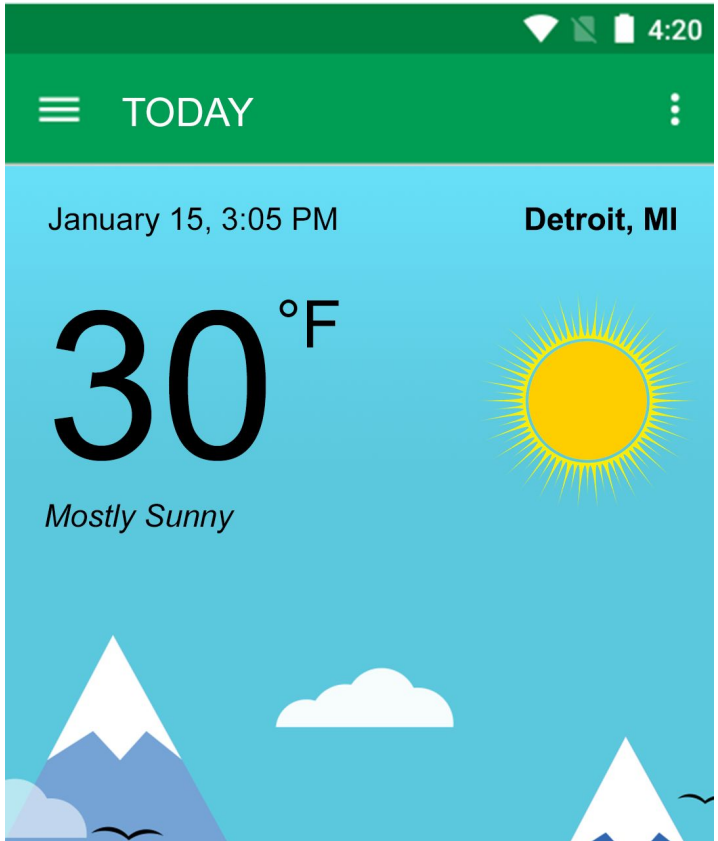
About Me

- Software Engineer
- 10+ years experience
- Web development
- Game development
- Mobile App development
- Smart Home App

www.ZakariaChowdhury.com

What we will learn today

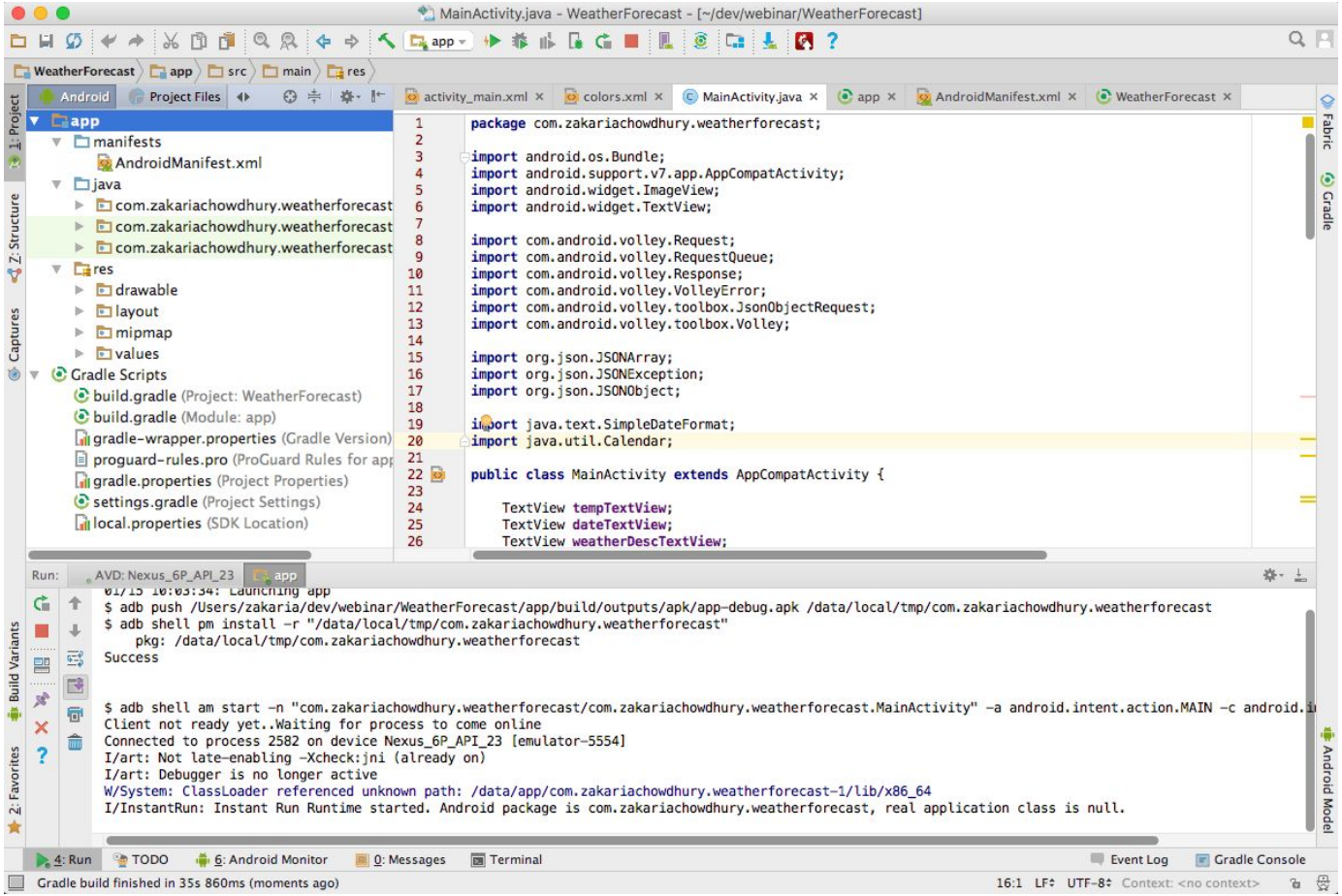
- Create a hello world app
- Create a weather forecast app
- Different Components of Android app
  - Create User Interface
  - Get data from a server
  - Update interface from data



What we will need

- Java - Programming Language
- Android Studio
- Android Virtual Device / Emulator
- An account at www.openweathermap.org/api
- Postman App (Optional)

Android Studio



Android Virtual Device

www.openweathermap.org/api

API Key:

- A code to authorize and get data from the server

API Request:

- http://api.openweathermap.org/data/2.5/weather?q=Detroit,MI&appid=(your API key)

Server Response in JSON format:


```
{"coord":{"lon":139,"lat":35}, "sys":{"country":"JP", "sunrise":1369769524,"sunset":1369821049},
"weather":[{"id":804,"main":"clouds","description":"overcast clouds","icon":"04n"}],
"main":{"temp":289.5,"humidity":89,"pressure":1013, "temp_min":287.04,"temp_max":292.04},
"wind":{"speed":7.31,"deg":187.002}, "rain":{"3h":0},"clouds":{"all":92}, "dt":1369824698,
"id":1851632, "name":"Detroit","cod":200}
```

API Request

http://api.openweathermap.org/data/2.5/weather?q=Detroit,MI

openweathermap.org

Response


```
{"coord":{"lon":139,"lat":35},
"sys":{"country":"JP",
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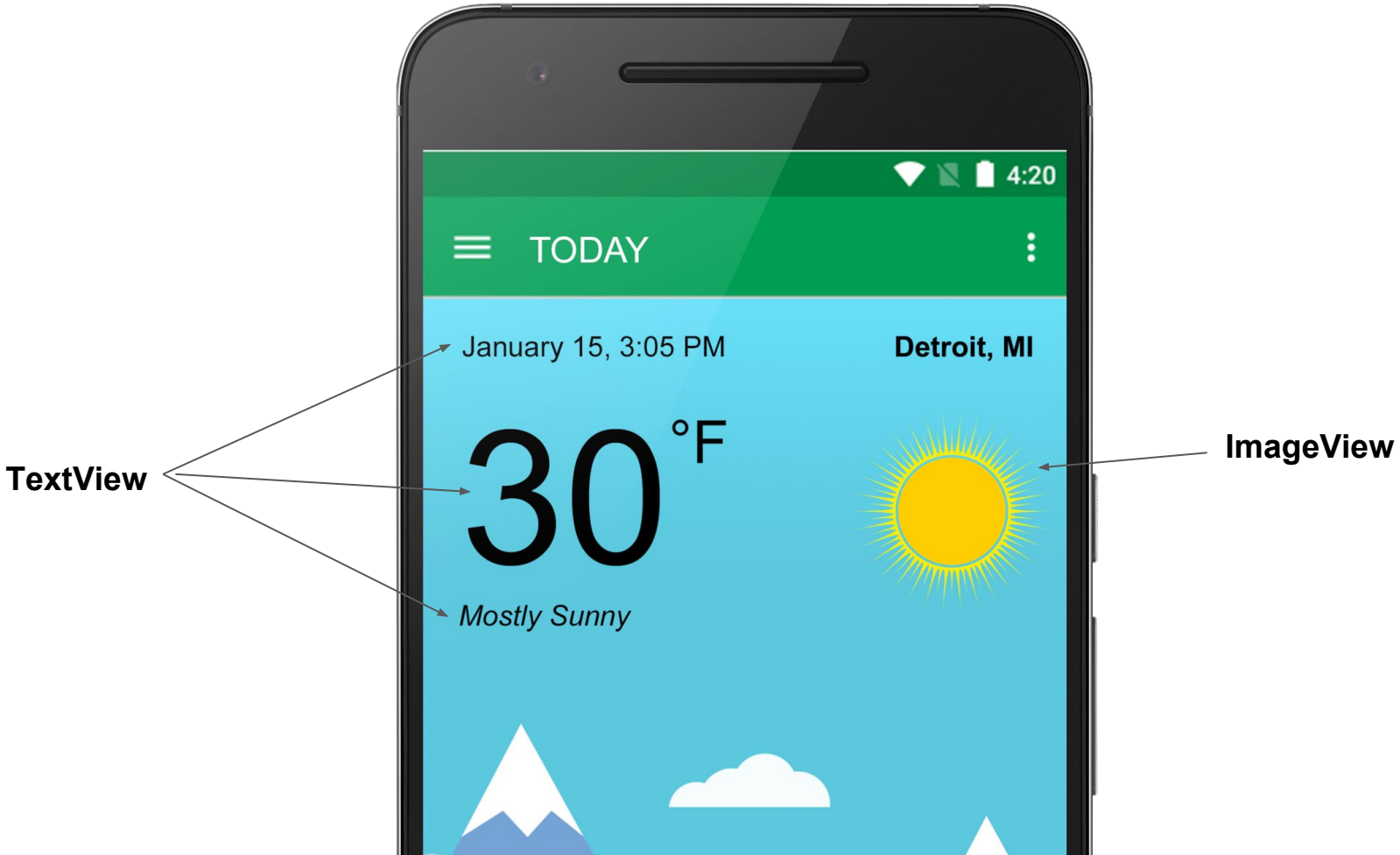
TextView
4:20
TODAY
January 15, 3:05 PM
Detroit, MI
30 °F
Mostly Sunny
ImageView

Let’s create the app

Android Official Training:

- https://developer.android.com/training/index.html

Current Weather Data:

- http://openweathermap.org/current

Request JSON:

- https://developer.android.com/training/volley/request.html

Thank You

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