Application Development for Mobile and Ubiquitous Computing
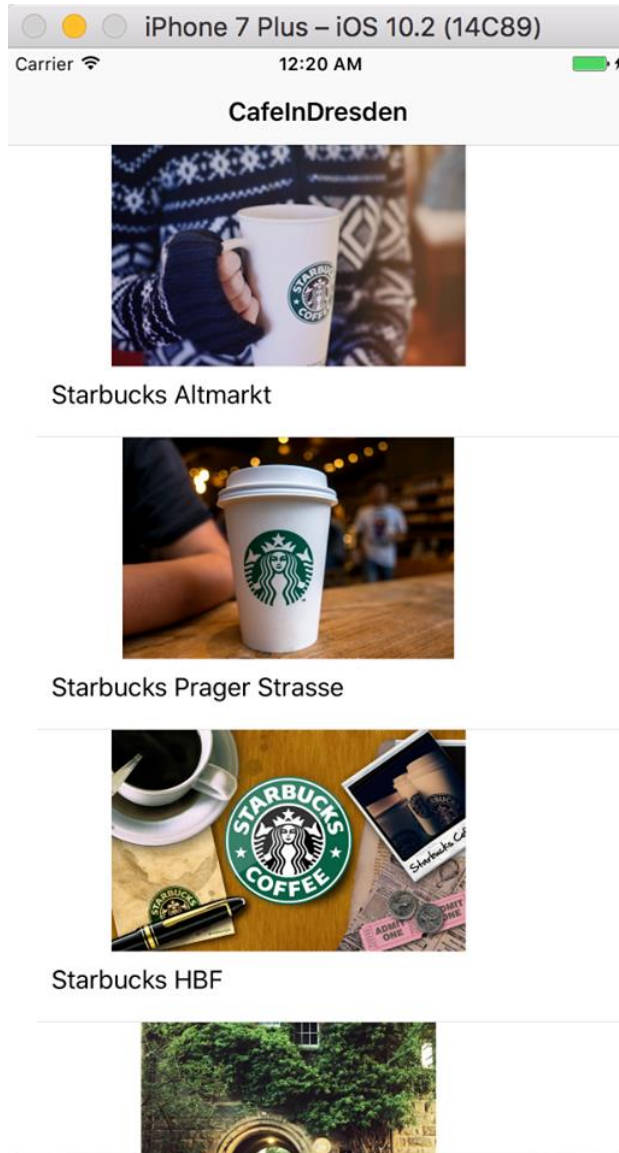
Seminar Task
Adaptation Concept Presentation

Group № 5
Team: Zhang Yi, Blavachinskaya Mariya

- **Provide a list of good cafes in Dresden.**
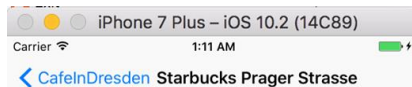- **List shows cafes within a radius of 5 km**

- **For each cafe provide a pictures, description, timetable, the exact address and location on the map.**

Application Scenario

Adaptation to Screen Size

- Constraint mechanism to scale components according to screen size
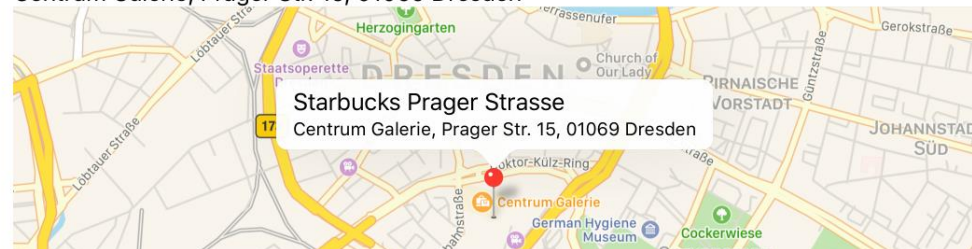- According to landscape or portrait mode different features will be designed

Architecture

HTTP Request

Django Framework

Apache 2

SQLite

XML/JSON

Technologies
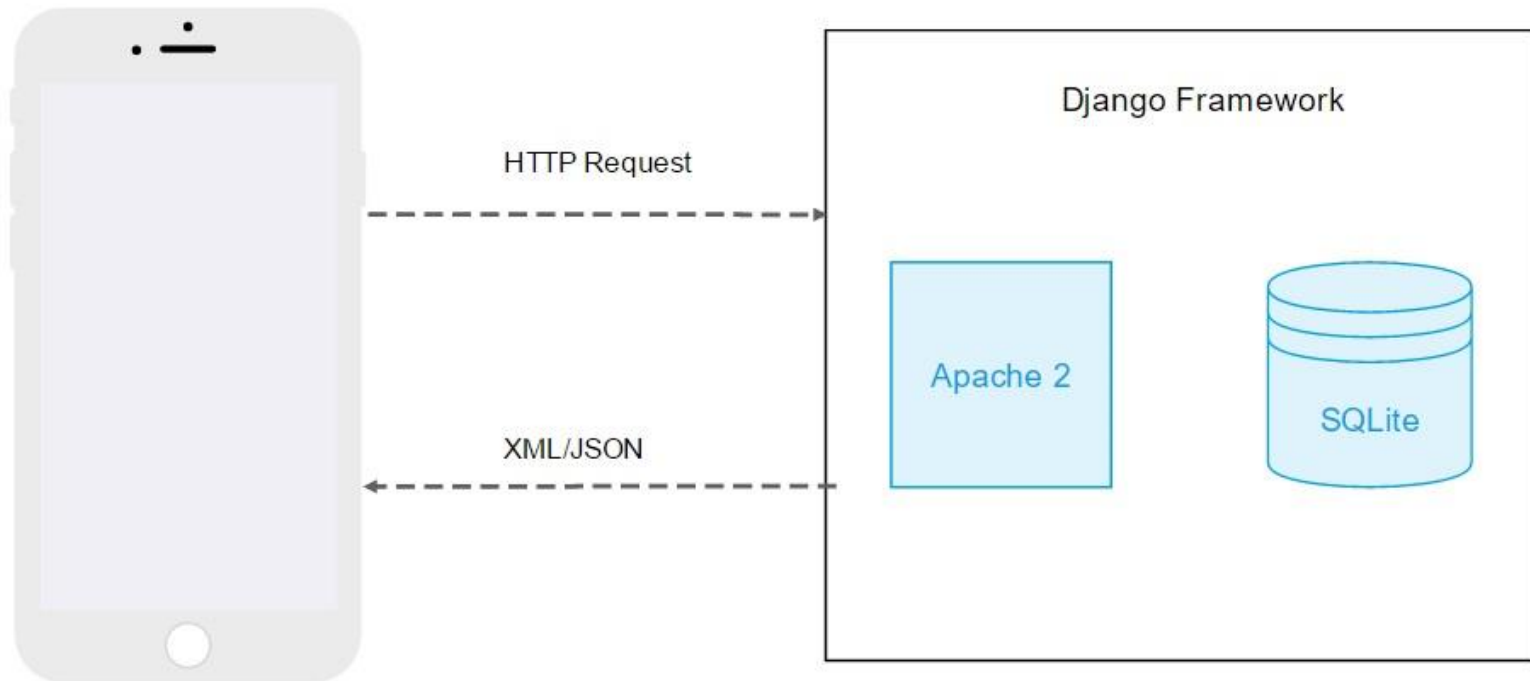
- **Frontend**
  - Programming language: SWIFT
  - Database: CoreData

- **Backend - Django framework:**
  - Programming language: Python
  - Database: SQLite3
  - Server: lightweight Web server (for testing), Apache2

- **Maps:** Apple Maps

Discussion/Assessment

- Learned new technologies: iOS programming, Django framework
- Experience in Application Development

- Problems encountered:
  - Connection to core Data,
  - Frontend and backend connection
  - Absolutely new and unknown technologies

- Still work to do:
  - Prefetching (in progress)

Thank you for attention!