

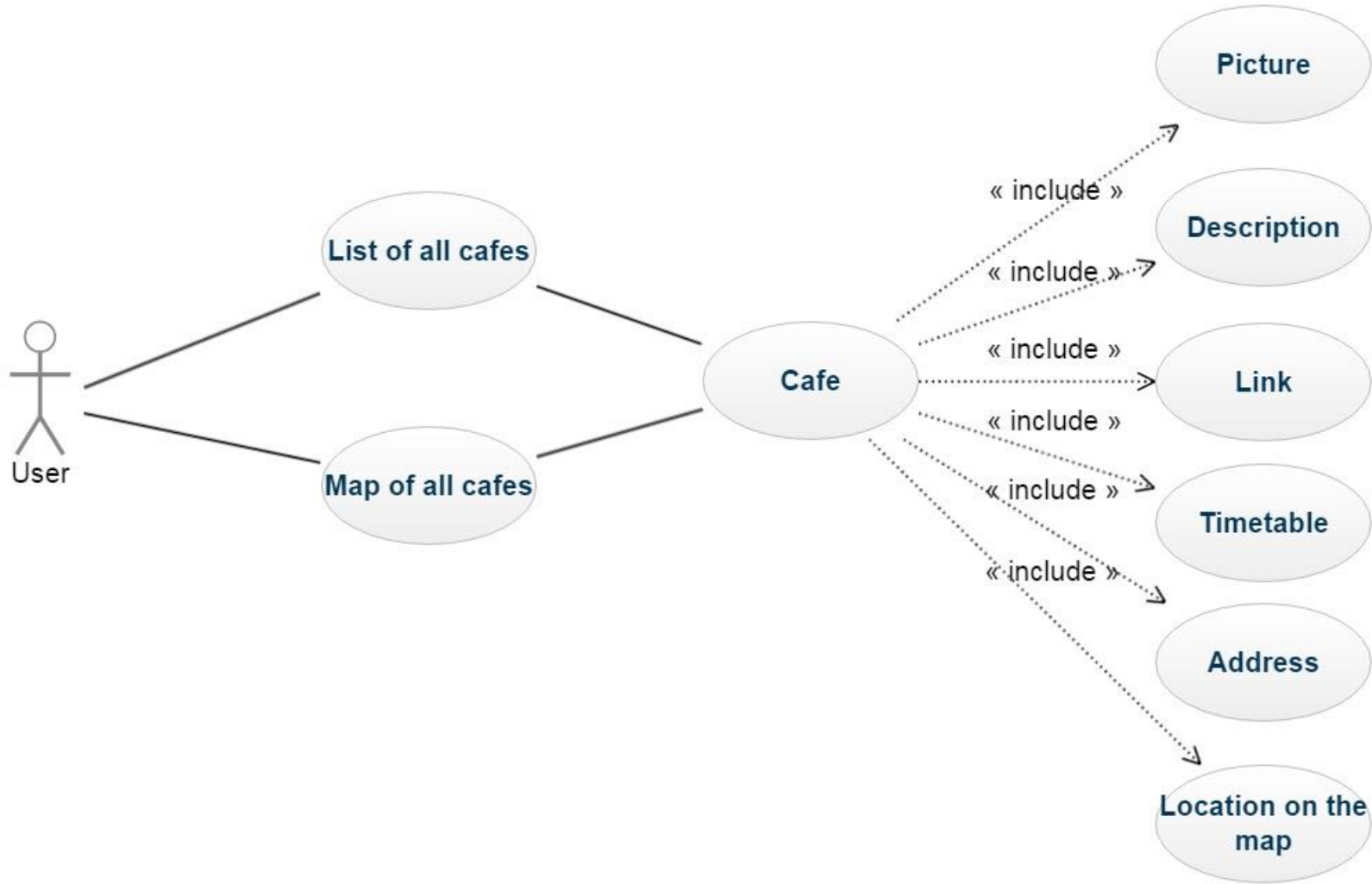
Application Development for Mobile and Ubiquitous Computing

Seminar Task
Adaptation Concept Presentation

Group № 5
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- **Provide a list of good cafes in Dresden. It will be possible to sort this list by name or by distance.**
- **Show location of cafes on the map, location of the user and time that user need to spend to walk to nearest cafes.**
- **For each cafe provide a pictures, description, link to facebook page or web-site, timetable, the exact address and location on the map.**

Use Cases



• Prefetching

Description:

- When user scrolling list of first 10 cafés and he is currently on 7th, start to download list of next 10 cafes (and so on).

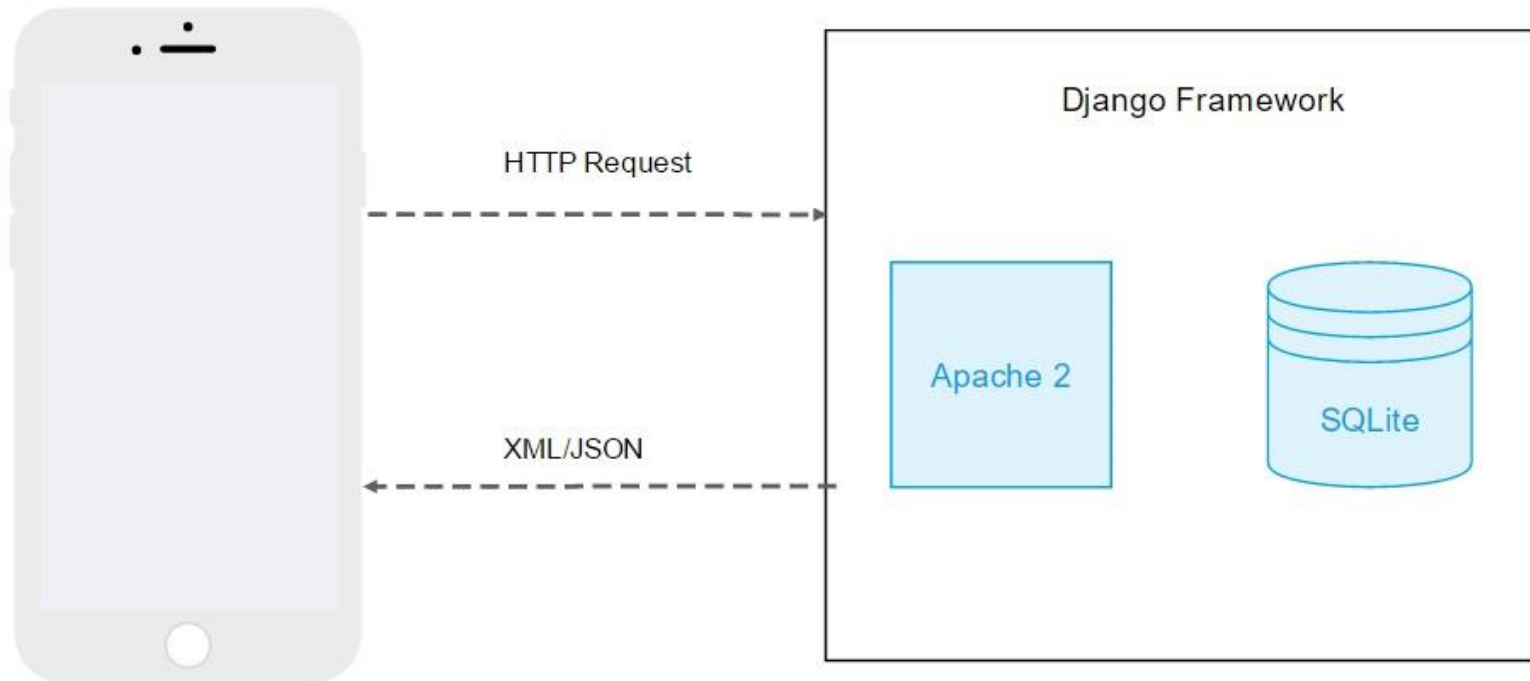
Realization:

- Order provided cafes according to distance from user current location
- User location and distance calculation provided by Google Map
- Triggering of prefetching by initial start of application

- **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



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

- **16.12.2016 - Adaptation concept presentation**
 - Construct database
 - First Prototype
 - Polishing and bug fixing
 - Documentation
- **27.01.2017 - Final presentation**

Thank you for attention!