

Department of Computer Science Institute for System Architecture, Chair for Computer Networks

Application Development for Mobile and Ubiquitous Computing

MusIQ

Second Presentation

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- Simple music player with basic functionality
- Application fetches additional information according to currently playing song:
 - Video (from YouTube)
 - Biography (from Wikipedia)
 - Discography (from Discogs.com)
 - Events nearby (from Eventful.com)





Application Development - Second Seminar Presentation



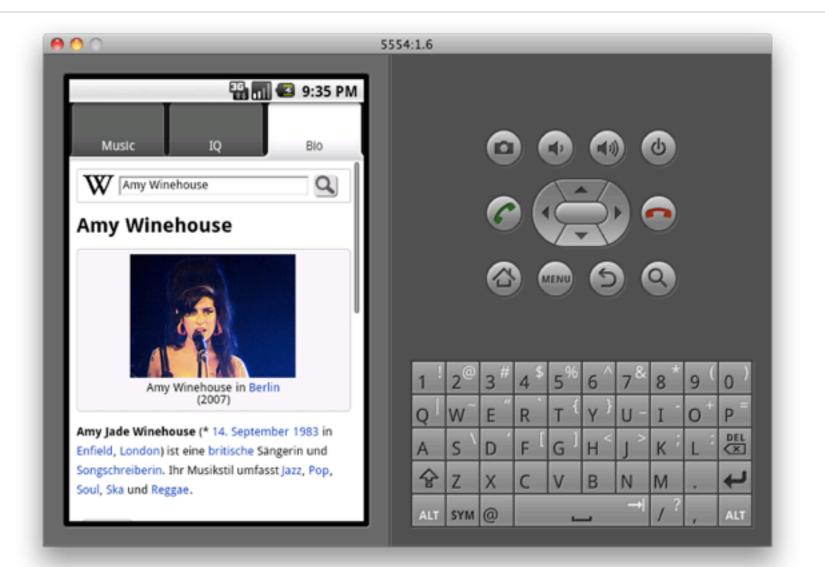
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- Source: YouTube API (REST)
- Progress: requesting & parsing the data
 - Parser: SAX
- Problem: embedding the videos
 - Flash not supported on Android
 - MP4 files not officially available
 - Stream support via RTSP







- Source: Wikipedia (MediaWiki API REST)
- Progress: requesting & parsing the data
- Problems:
 - Limited XML access rights: use of the mobile web version
- TODO: presentation & layouting



- Source: Discogs.com API (REST)
- Progress: requesting the data
- Problem: data has to be unzipped
- TODO: filtering & presentation



Application Scenario: Events

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Application Development - Second Seminar Presentation



- Source: Eventful.com API (REST)
- Progress: requesting, parsing & presentation of the data in a list
- TODO:
 - Search for artist or related artists (via Last.fm API request)
 - Implementation of the location-awareness





- Technological challenges:
 - Reduced network traffic
 - o Adapted requests
 - o No HTML representation
 - Battery life
 o All in 1 application
- Customer satisfaction
 - Easy access, no browsing necessary
 - Presentation & layout adapted to mobile device
 - Functions for the right time & place
 - Almost no user input necessary



- Reading ID3-tags from MP3s
- Dynamic search
- Location based service
- Music player improvement
- Corporate layout
- Problem solving
- Final presentation on 01/22
- Submission on 02/05