



First Presentation: KarmaSurf

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- Application Scenario
- Technologies
- Architecture
- Challenges
- Mockups
- Workplan

- Recent Hype: Big Players bring internet connection to remote areas



- Our idea: Share mobile traffic with other users of KarmaSurf

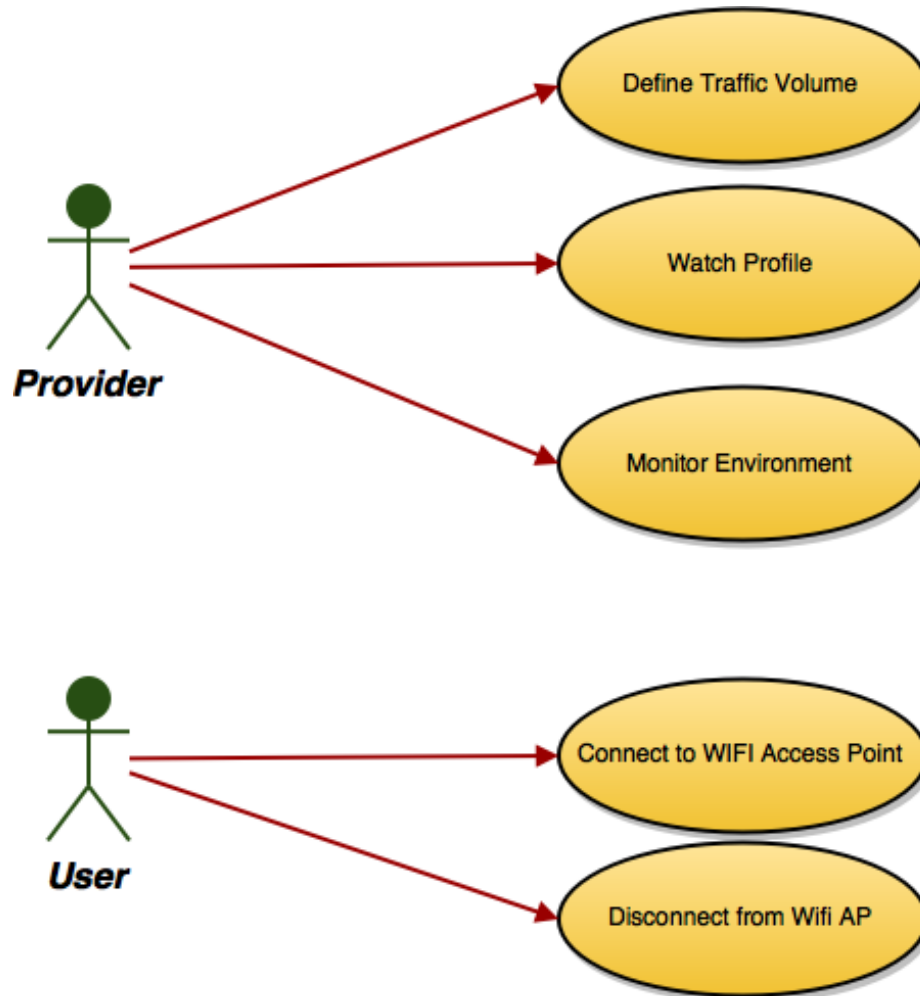
Provide Network
Connectivity for
foreigners

Avoidance of Roaming



Do something nice with your „overcapacity“

Application Scenario – Use Cases



- Gamefication: Karma system
- User earn points (1 point = 1 MB)

- f.e. avoiding Roaming (using mobile data of natives in foreign countries)
- Using mobile data in trains, festivals or even at Elbwiesen



Bluetooth



WIFI



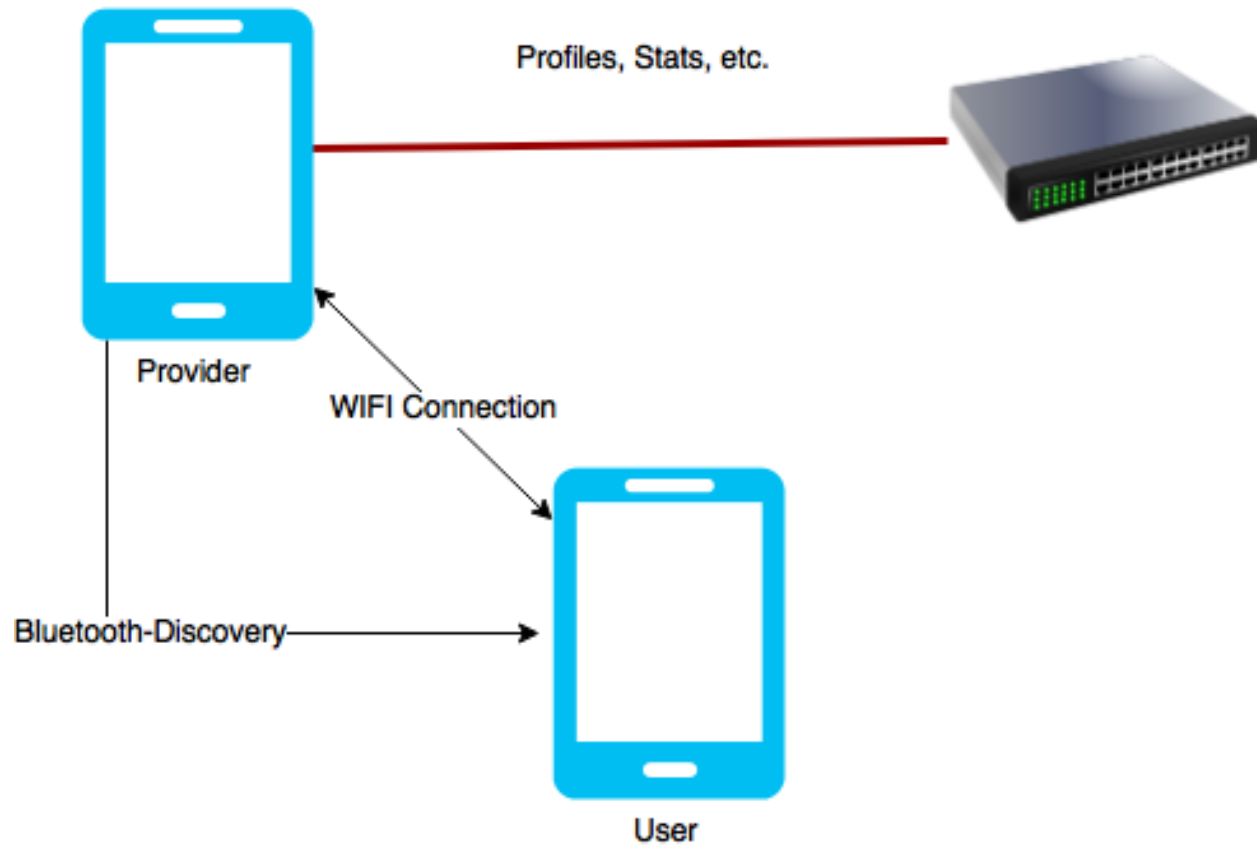
Android (Java)



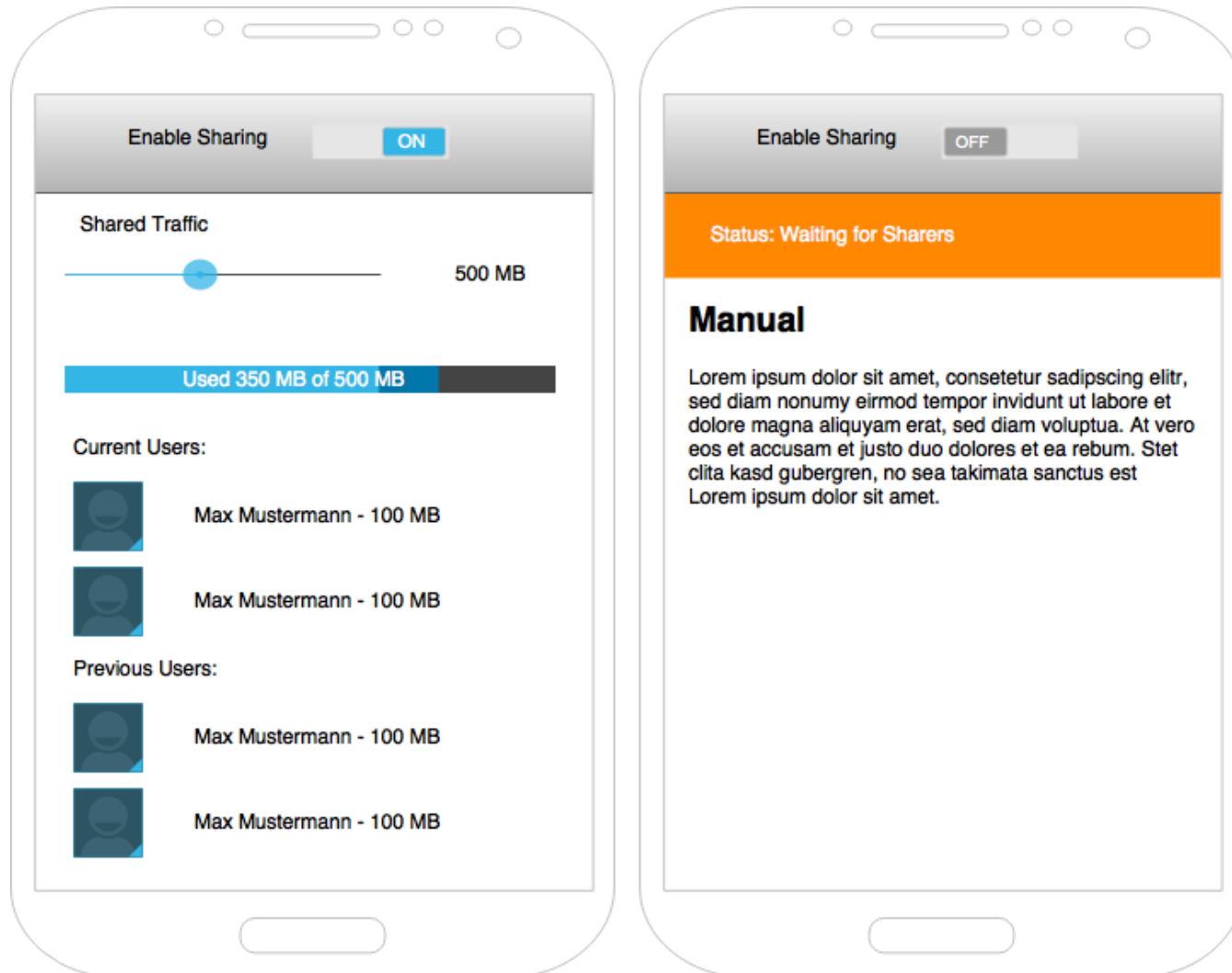
(PHP (Zend Framework 2))



(MySQL)



- Battery life
- Availability of Mobile Data (Comm. with Server?)
- Programmatically enable and configure Access Point
- Counting used Traffic (only count shared Traffic)



- UML Class Diagram + Entity Relationship Model
 - 08.11.2015
- (PHP server component + APIs (Restful?))
 - 22.11.2015
- App Development – 23.12.2015
 - Bluetooth monitoring service – 01.12.2015
 - Communication Interface with PHP-Server – 01.12.2015
 - WIFI communication service – 15.12.2015
 - Access Point service – 15.12.2015
 - GUI – 23.12.2015
- Bugfixing / Secondary Features – till due date