



Application Development for Mobile and Ubiquitous Computing

Location based ATM search

First Presentation

Group #11

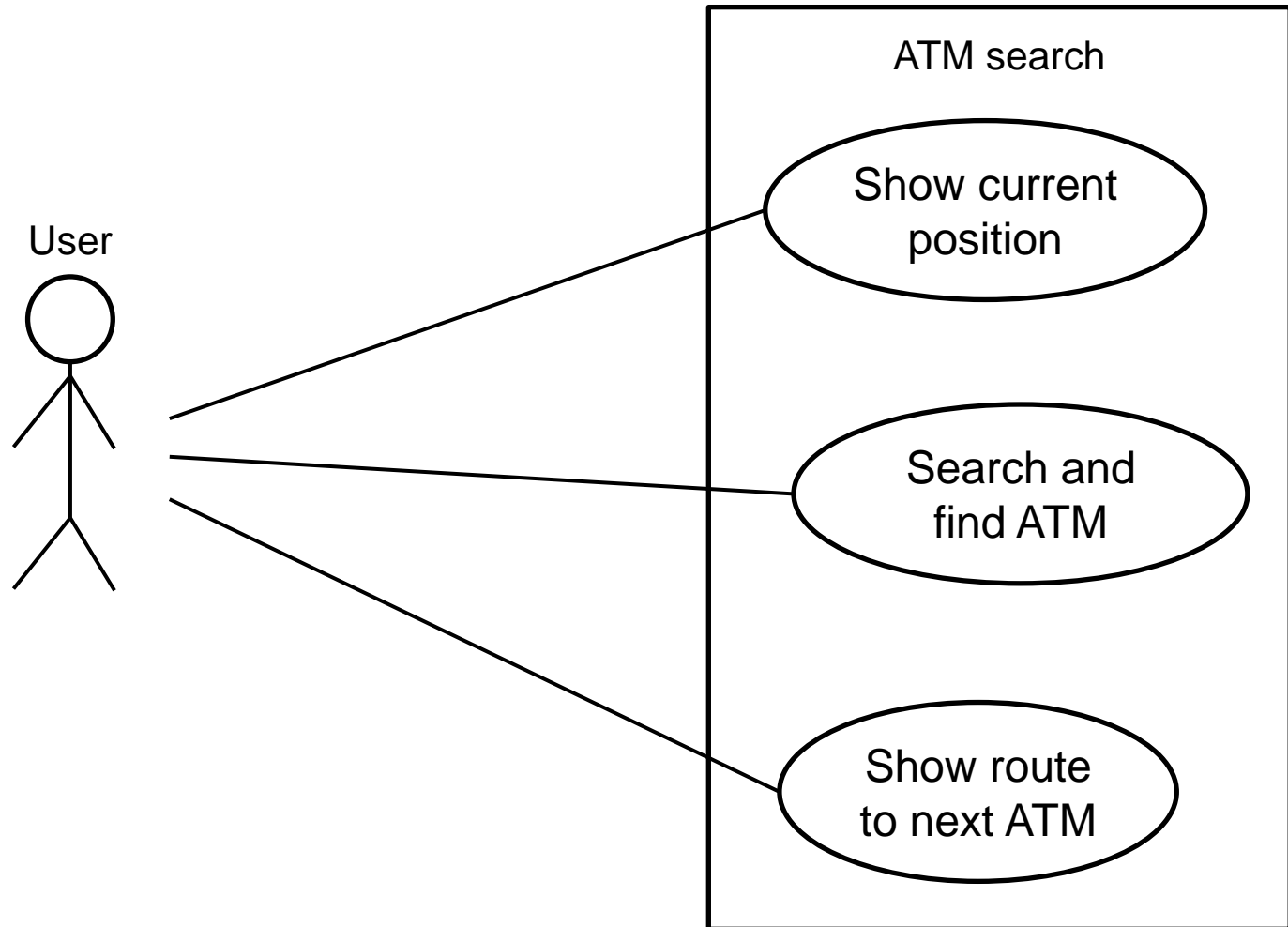
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Problem:

- Customer wants to draw out money
 - without handling charges, if possible
 - Customer has no idea where the next ATM is located
- Find the next ATM near your current position

Solution:

- Creating a mobile application which searches the next ATM based on the current user position





- User can choose its bank group
- User can also search for every available atm
- Easy to use interface



- Insert current location into a form
- For use if no gps is available/working
- Searching for an ATM at a specific location



- User can see its own position
- User can see the position of ATM
- Everything is shown on a map

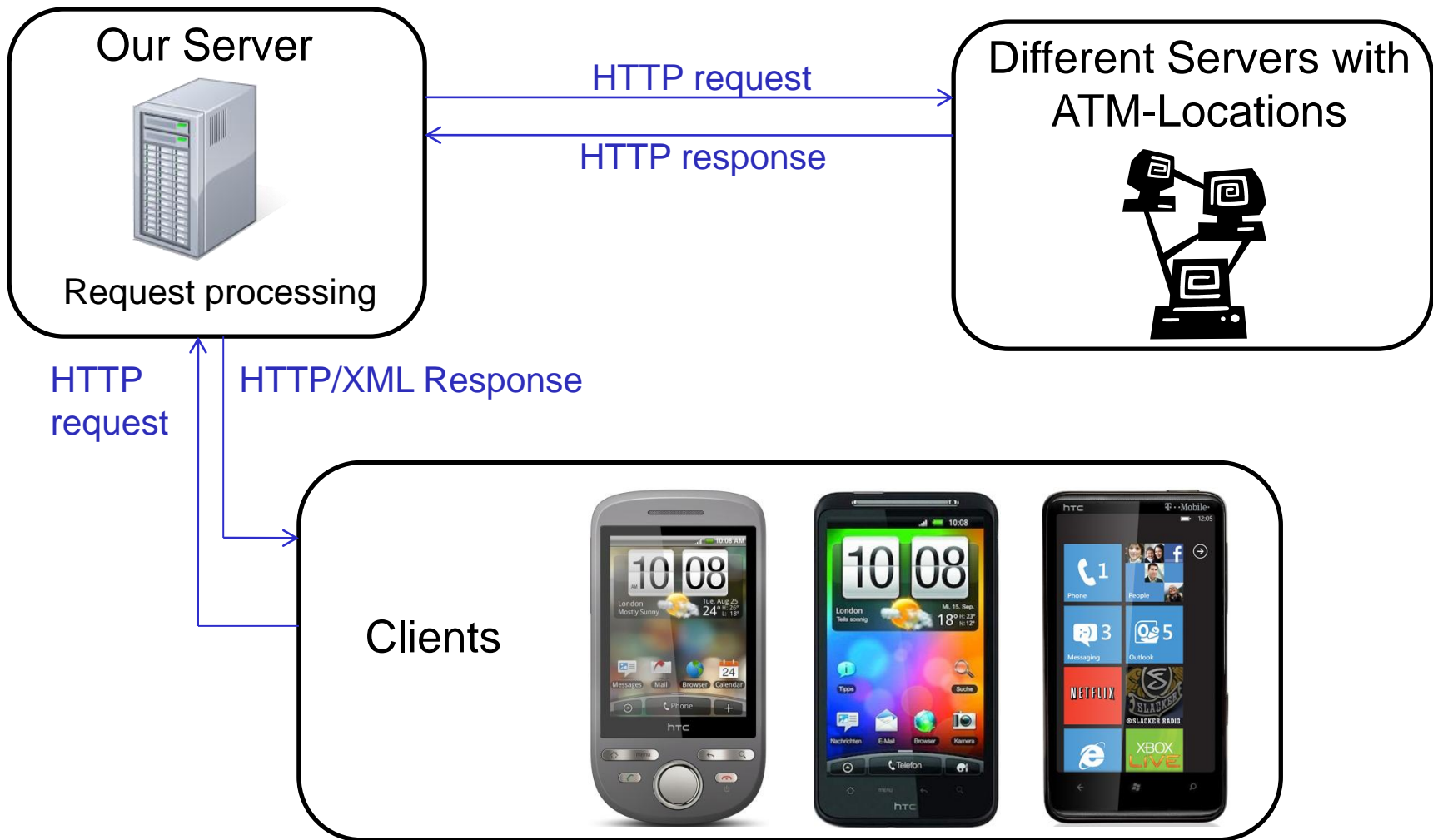
- Customer Satisfaction Challenge
 - Usability
 - Small Screen Size
 - Always find a (working) ATM

- Device Challenge
 - Heterogeneity of software
because we use client-server-architecture with defined communication rules

- Client-Server Architecture
 - PHP-based server solution
 - Client-communication with XML

- Client
 - Webbrowser with adress-fields
 - Android-Client using GPS user-location

- Technologies
 - PHP 5.3
 - Java for Android 1.6
 - Connection via EDGE/UMTS/WLAN



- 08.11.2010** Create server-side request-application/xml design
- 15.11.2010** Finalized design xml for client communication
- 30.11.2010** First prototype for web request form
- 09.12.2010** First dummy prototype for android client prototype with all features for web request form
- 31.12.2010** prototype with all features for android client
- 15.01.2011** Server and Clients fully implemented and tested