

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

Application Development for Mobile and Ubiquitous Computing

Seminar Task First Presentation

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- . Application scenario
- **.** System architecture
- . Use cases
- . Mockup
- . Technologies
- . Challenges
- . Work plan



- A traveller, with/without visit plans, just arrives a new place.
- Real-time local information (weather, trends, news, flight and trains etc) can be obtained.
- Based on that new plan can be made or old plan can be adapted.
- Without Internet connection, alerts in the high security situation (serious attack or natural disaster etc) will be sent by SMS.



System Architecture









Mockup



Alert List Image: Constraint of the second seco

Alert



Met Office: Amber weather warning and possible flooding ... BBC News - 48 minutes ago The Met Office warns of possible flooding after issuing an amber

Weather warning for much of Northern Ireland.

Other



Does public transport make you ill? – Ten transport myths ... The Guardian - 2 hours ago

From flu on the bus to sinking ships, here are some of our favourite transport myths – busted.





One day in Dresden

Xi Luo / Nov 6th, 2014

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Client side

Android platform will be used as it has wide user base and more stable environment for mobile applications. Also the APIs required for application development are readily available.

Server side

App servers running providing web services for user registration. The app server uses a database to store user specific information.

App server uses external sms services providers for sending sms in user offline mode and high alert situations.



Client side

- Understand and use Android SDK.
- Fetches news from News Server, with minimal usage of network as user is travelling and is under roaming charges.

Server side

- High availability of the alerting services.
- Providing reliable services.



Mobile application development

- Understand Android SDK.
- Develop user interface.
- Set up mobile application to access various web service for weather, news etc.

• Web server development

- Development of web service for user registrations and monitoring of the user online/offline.
- Setting up the SMS gateway for high alert situation.



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Thank You! & Questions?