



TECHNISCHE
UNIVERSITÄT
DRESDEN

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

Mobile Backup Manager

First Presentation

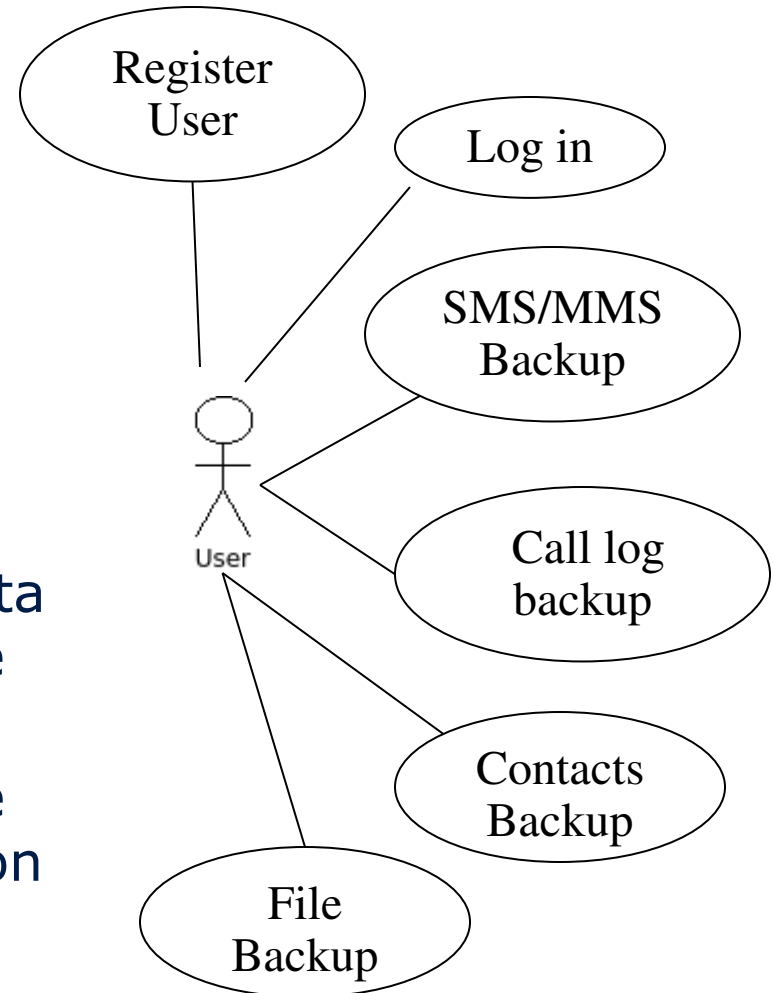
GroupNo.11

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- Introduction
- Application Scenario and Use Case
- Technologies and Architecture
- Challenges
- Work-plan

- (v.) To copy files to a second medium (a disk or tape) as a precaution in case the first medium fails.
- The typical mobile user simply doesn't think about backing up their data on a regular basis.
- Many companies don't have a policy for backing up mobile data.
- A significant amount of data, that might be considered as intellectual property, may reside solely on unprotected remote devices

- Application can backup (and restore):
 - Contacts
 - SMS, MMS
 - Call logs
 - Files
- Backups can be stored on SD card or in device memory, it would be possible to store data on server or to send a csv file to your inbox
- It can be possible to schedule automatic backups. Application can automatically upload backups to the server



- Server
 - Apache Axis Web Services
 - Apache Tomcat
- Client
 - Android
 - Java ME
 - HTML5, CSS3
- Client / Server Architecture
 - server implementation based on Web Services
 - provides Web Service operations for registering, logging and copying backup
 - client run on mobile device, provides GUI
 - accesses server functionality by calling Web Service operations

- Challenges
 - Device resources –
 - Processing power
 - Battery
 - Connectivity -
 - Slow connections
 - Irregular Network Connectivity
 - Bandwidth Limitations
 - Some firewalls are configured to block connections to corporate networks or to well-known cloud applications

- First Stage
 - Defining Application and its functionalities
 - Creating work flow
- Second Stage
 - Setting up environment
 - Designing UI
 - Implementing client server architecture
 - Service for login / logout
- Third Stage
 - Creating Backup on server
 - Generating csv file and sending it to inbox

Thank You

Suggestions ?