



TECHNISCHE
UNIVERSITÄT
DRESDEN

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

Mobile Backup Manager

Second Presentation

Group No. 11

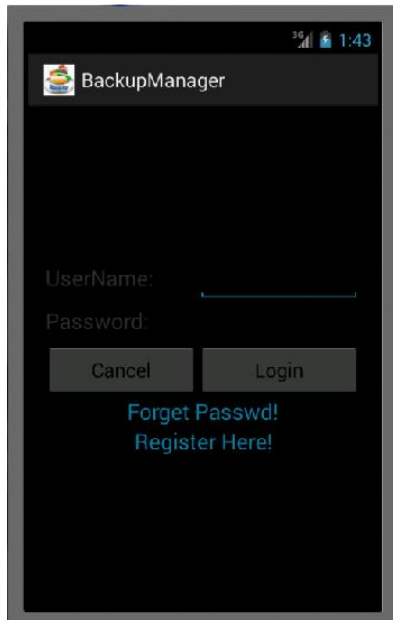
Atul Mahind

Humanshu Bhatia

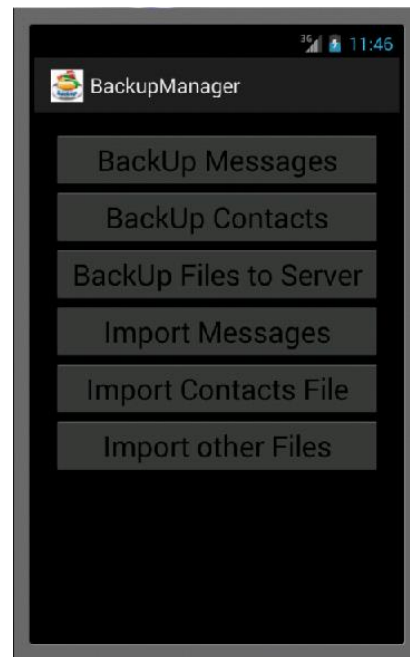
- Application Scenario
- Screenshots
- Architecture and Technologies
- Challenges
- Adaptation and Context
- Work Plan

- 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 of multiple personal devices.
- Application can automatically upload backups to the server.
- A web interface showing current list of files against the respective users and file details on server.

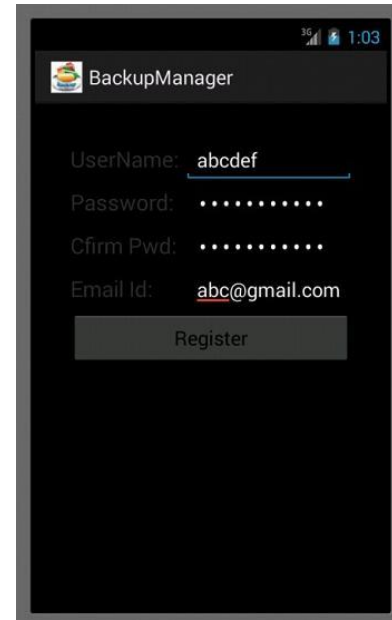
Screenshots (Client)



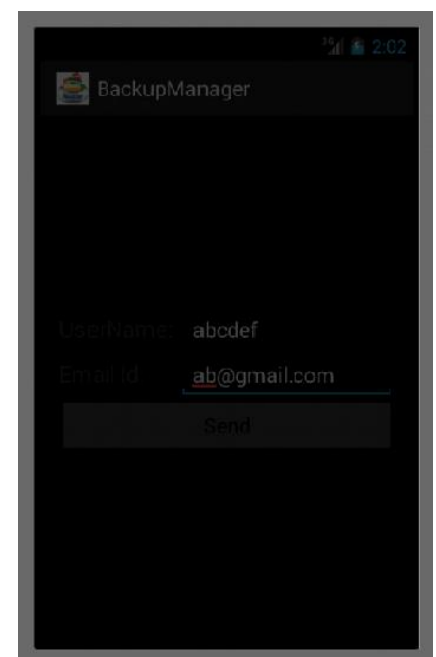
Login



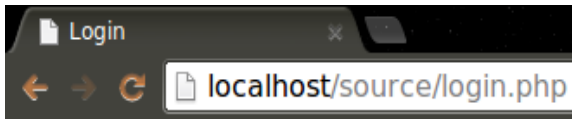
Main Screen



Registration



Forgot Password



Login

* required fields

UserName*:

atul

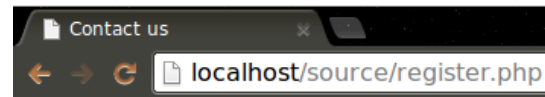
Password*:

Submit

[Forgot Password?](#)

Login

Registration



Register

* required fields

Your Full Name*:

jshdjks jshdfjksh

Email Address*:

sahhdjs@jhas.com

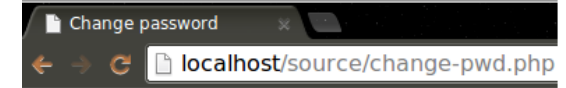
UserName*:

atul

Password*:

[Show](#) [Generate](#)

Submit



Change Password

* required fields

Old Password*:

[Show](#)

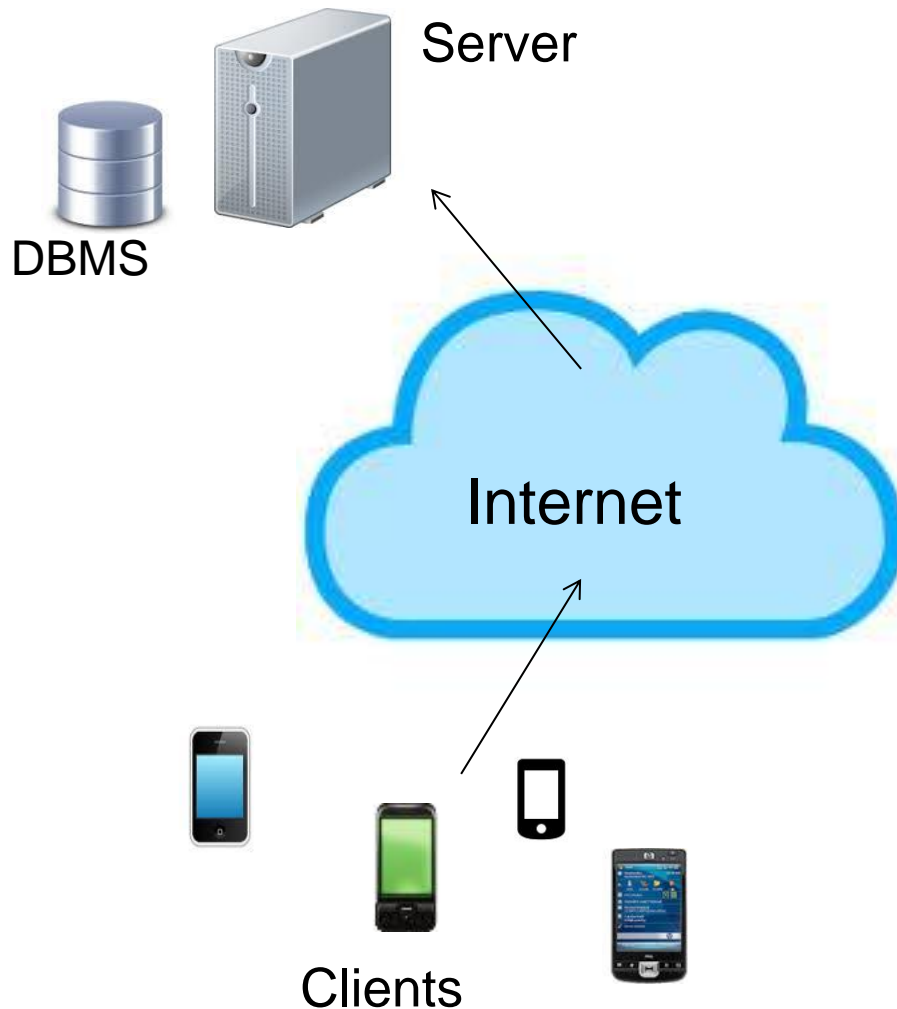
New Password*:

[Show](#) [Generate](#)

Submit

[Home](#)

Change Password



- Server
 - Apache Tomcat
 - Admin UI - PHP
 - Database – MySQL
 - REST API

- Client
 - Android
 - REST API

- Different Operating Systems
- Limited Bandwidth
- Disconnections
- Track changes and creation of new data
- Synchronization with backend

- Adaptation
 - Replacement
 - Transformation – Coding
 - Changing internal representation
 - Transformation – Format
 - PDF to Text
 - PNG to JPEG
- Context
 - Physical
 - Location, Time
 - Technical
 - Network (Bandwidth), Device
 - Operational
 - Roles, Activities

- First Stage
 - Defining Application and its functionalities
 - Creating work flow
- Second Stage
 - Implementing client server architecture
 - Registration and Logging operations
 - Generating csv file and sending it on email
 - Creating backup on server
- Third Stage
 - Web interface to show backup details
 - Testing and Debugging

Thank You

Suggestions ?