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

Application Development for Mobile and Ubiquitous Computing

TUD Course Manager Final Presentation

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- Make it easy to view lectures on mobile device
- Viewing the lectures even if you don't have the appropriate reader
- Getting updates
- Creating a time table
- Use Cases implemented
 - Viewing List of courses
 - Selecting Courses
 - Viewing list of selected courses
 - Getting Updates
 - Viewing lectures ,exercise and news
 - Viewing time table





Show the list of courses







- Show the list of courses
- Select the courses you are enrolled in







 View the timetable for the courses you selected





View Selected Courses and Check Updates

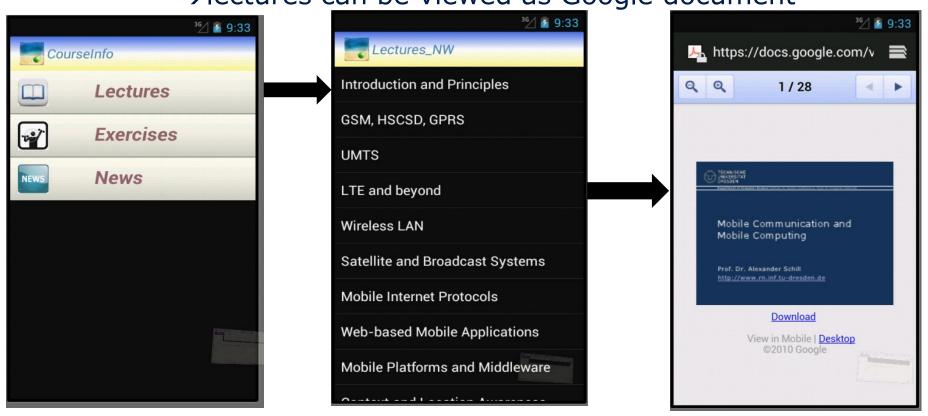
TUD Course Manager

- List of selected courses
- Shows updates for the lectures and exercises for the selected courses



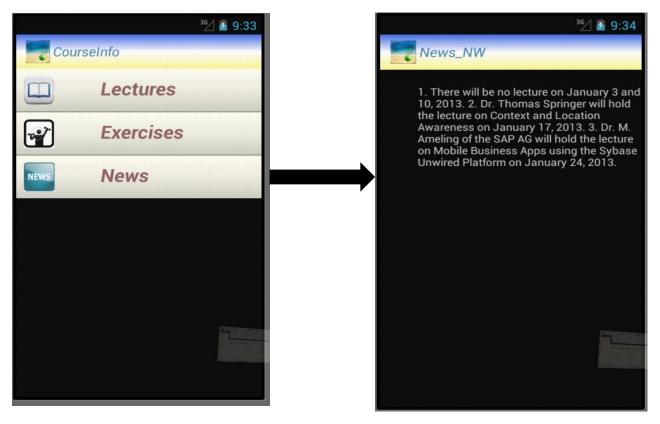


Click on the lectures to get the list of lectures .
 →lectures can be viewed as Google document



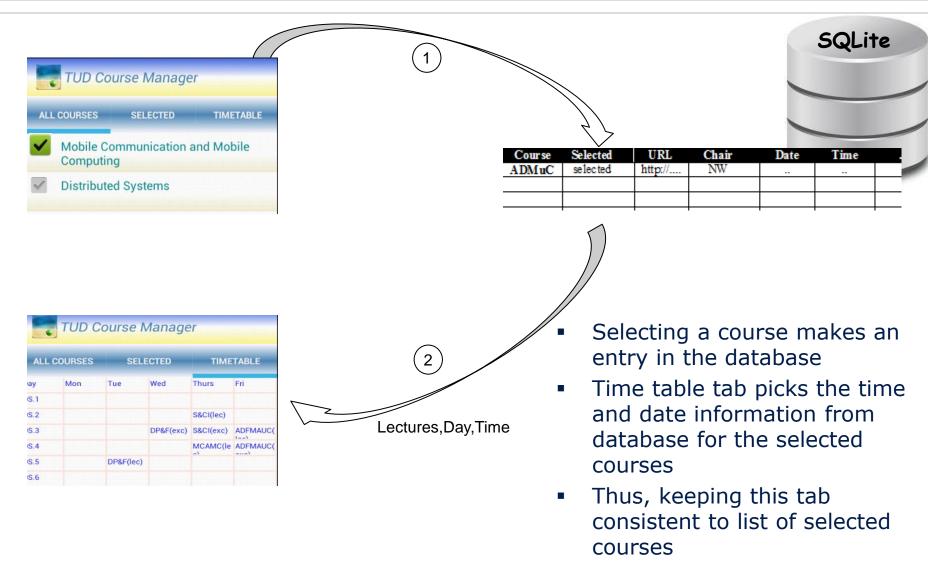


Now lets check the news section for a course



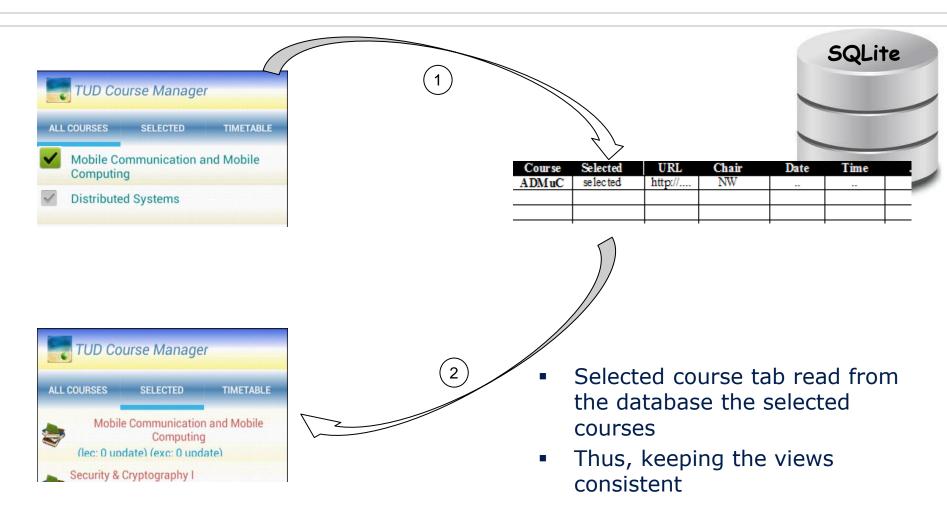


Details-Viewing Time table



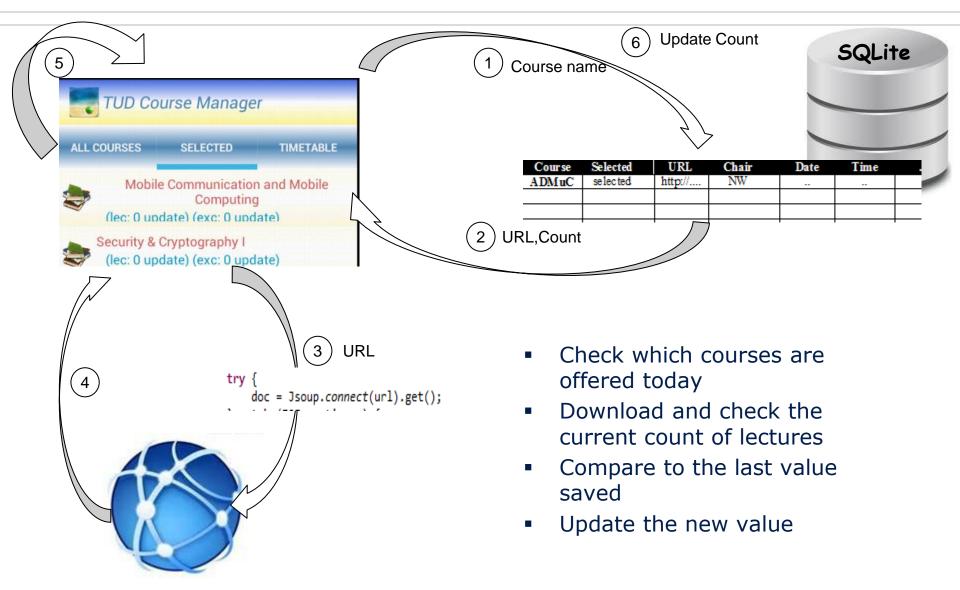


Details-Selecting Courses



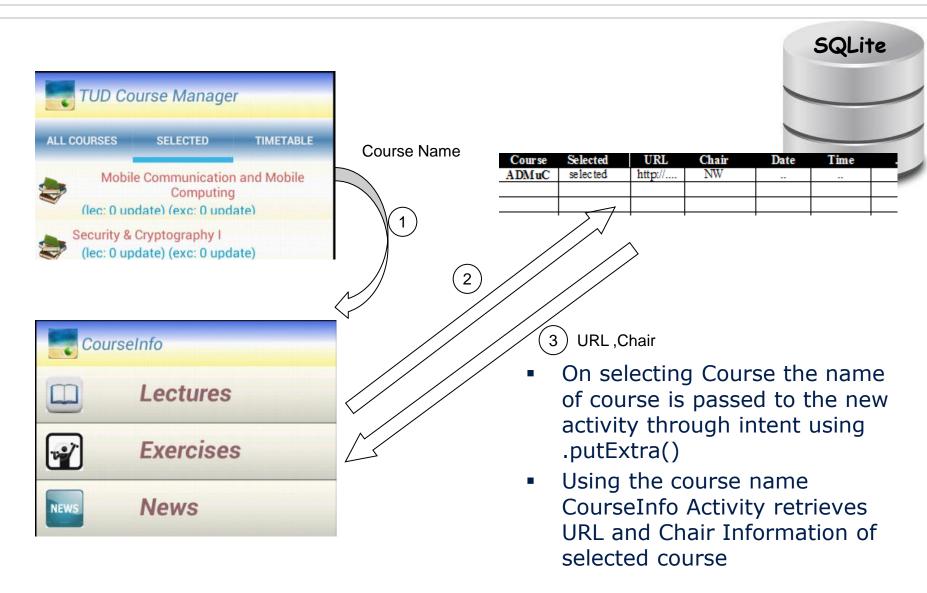


Details-Update Mechanism



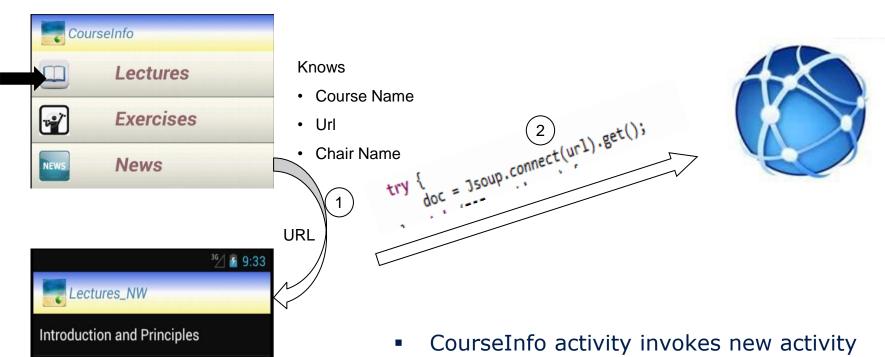


Details-Viewing Lectures





Details-Viewing Lectures



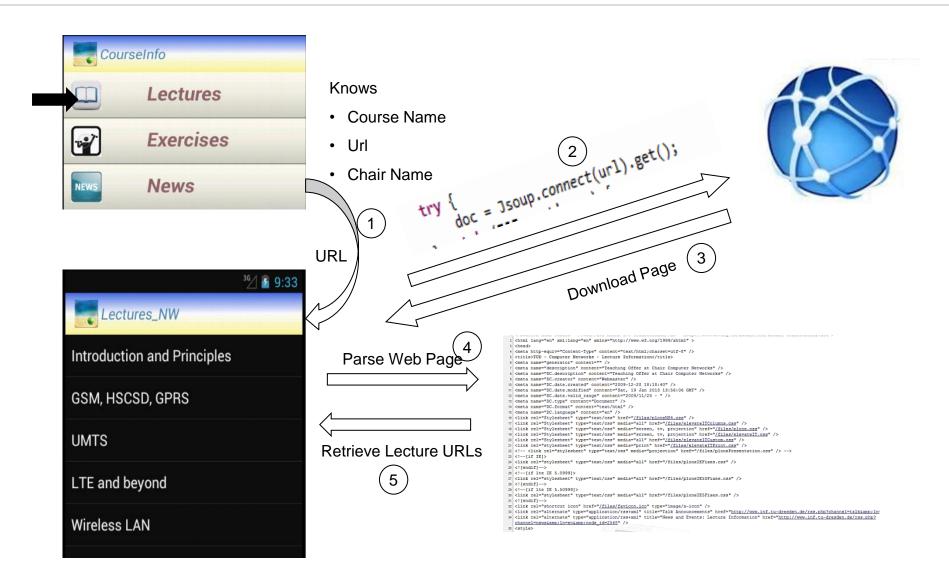
Introduction and Principles
GSM, HSCSD, GPRS
UMTS
LTE and beyond

Wireless LAN

- CourseInfo activity invokes new activity with appropriate parser for the chair
- Passes the URL to the Lectures Activity through Intent



Details-Viewing Lectures





- Keeping the database small as possible.
- Keeping the processing as low as possible while looking for updates.
- Limiting the communication by connecting to the website only when lectures or updates have to be checked.
- Viewing of documents as Google docs so application doesn't depend on other viewer.



Limitations and Assessment

- If large number of selected courses for the same day, looking for updates makes application a bit slow.
- Due to different website structure of all the chairs a different way of parsing had to be written resulting in a lot of activity classes.
- Only checks updates for courses offered on the day application is being used.



Thank You!