



Application Development for Mobile and Ubiquitous Computing

Seminar Task First Presentation

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TUD Course Manager

- An application to manage courses .
- Saves from going through multiple steps before reaching ACTUAL list of lectures .
- Provides a view(lectures ,exercises and news) of only those courses ,you are interested in .
- Alarms you if there are updates of lectures and exercises.
- Creates a timetable of your selected courses , so you no longer have to make time table for each semester manually 😊.

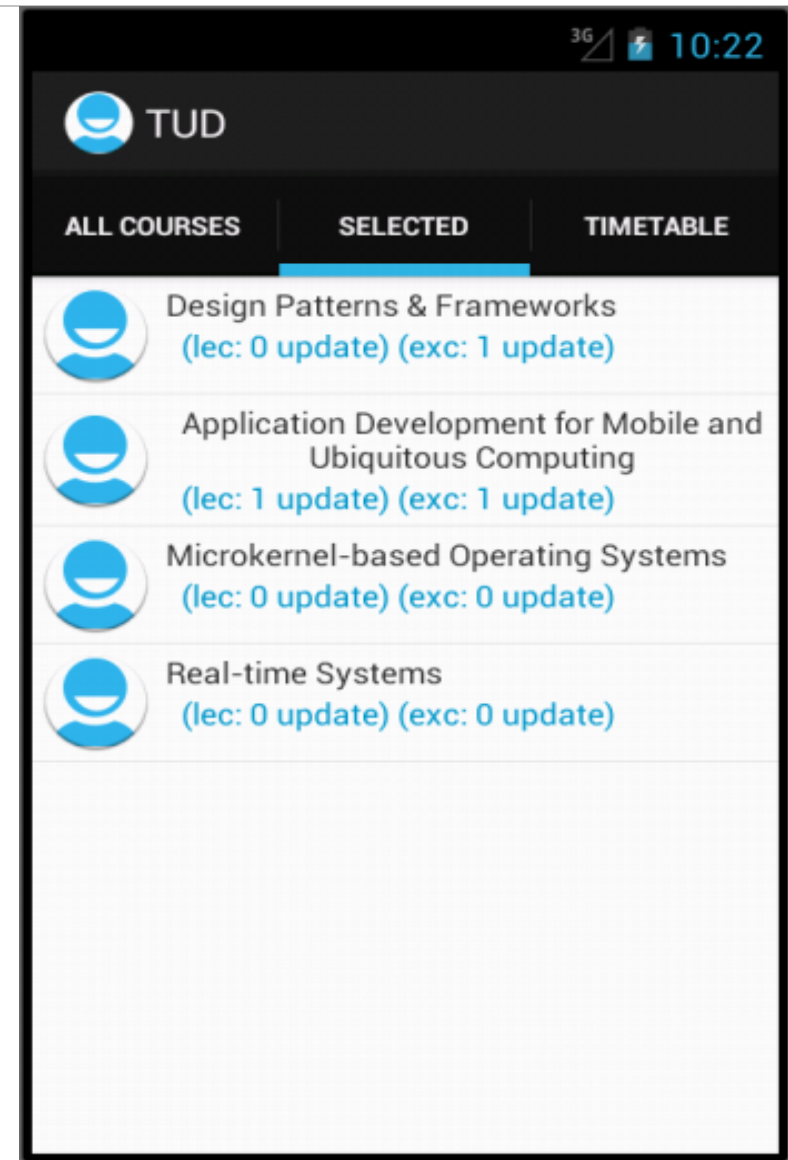
TUD Course Manager

- Shows list of available courses for the current semester.
- Allows to select the courses you are taking in current semester.



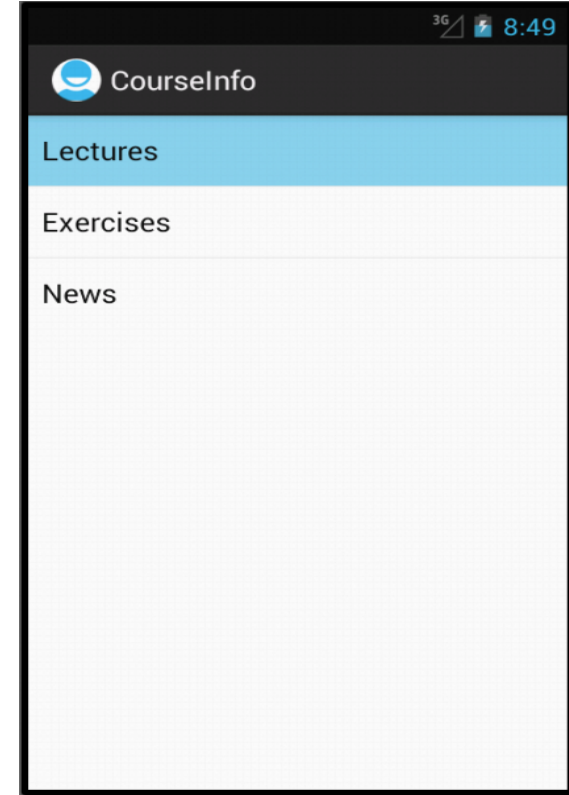
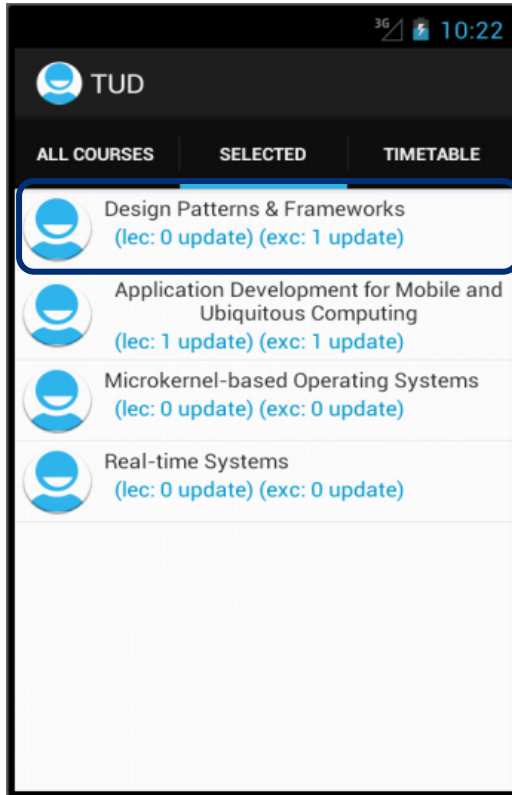
TUD Course Manager

- Selected courses can be viewed in a separate tab
- With each course updates are available .



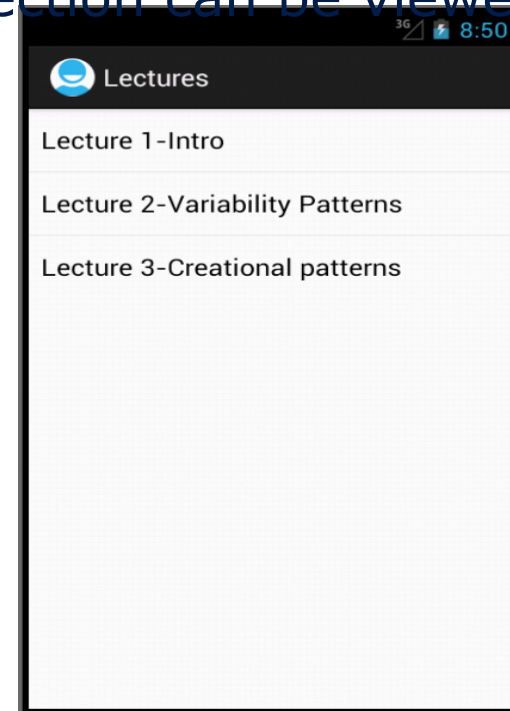
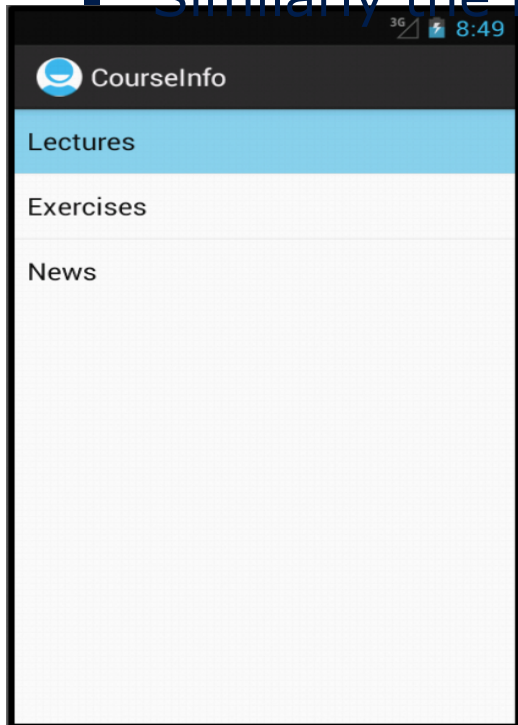
TUD Course Manager

- Following a course , details for that can be viewed



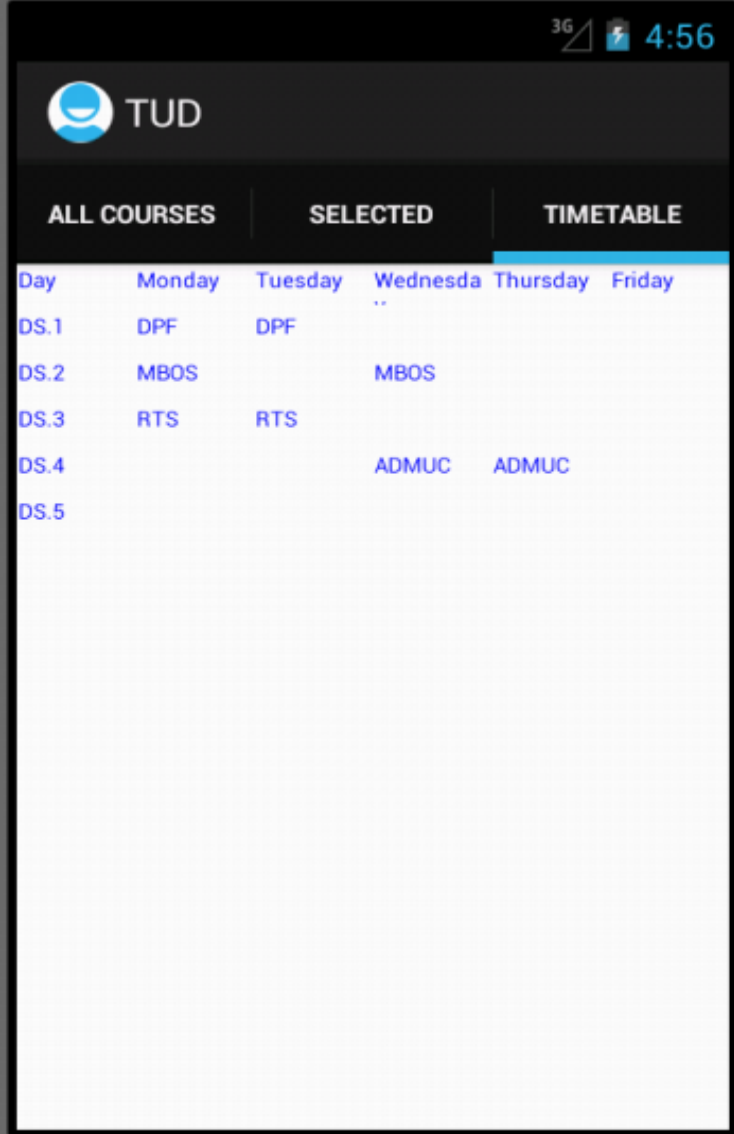
TUD Course Manager

- Following Lectures, we can open list of lectures updated so far that will be available as PDF document.
- Similarly the Exercise and News section can be viewed



TUD Course Manager

- Timetable for the selected courses can be viewed.



The screenshot shows the TUD Course Manager application interface. At the top, there is a status bar with 3G signal, a battery icon, and the time 4:56. Below the status bar is the TUD logo and the text 'TUD'. The main interface has three tabs: 'ALL COURSES', 'SELECTED', and 'TIMETABLE'. The 'TIMETABLE' tab is currently selected and highlighted in blue. Below the tabs is a table showing the timetable for selected courses. The table has columns for 'Day', 'Monday', 'Tuesday', 'Wednesday', 'Thursday', and 'Friday'. The rows represent courses DS.1 through DS.5.

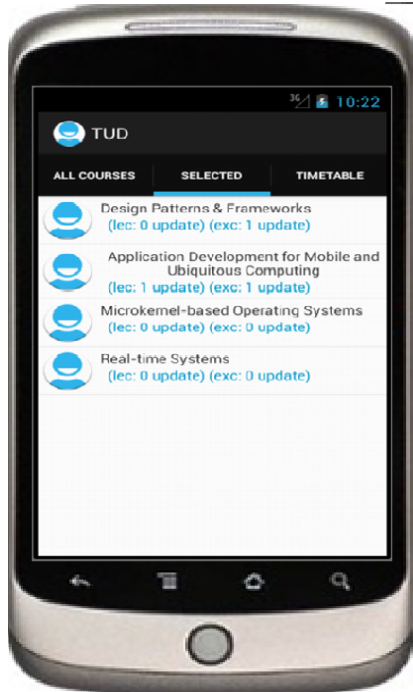
Day	Monday	Tuesday	Wednesday	Thursday	Friday
DS.1	DPF	DPF	..		
DS.2	MBOS		MBOS		
DS.3	RTS	RTS			
DS.4			ADMUC	ADMUC	
DS.5					

TUD Course Manager

- OS
 - Android 4.1.2
 - Java ,XML.
- IDE
 - Eclipse.
- Jsoup
 - For Scraping data from the university web page.
- WLAN
 - To connect to university web server.

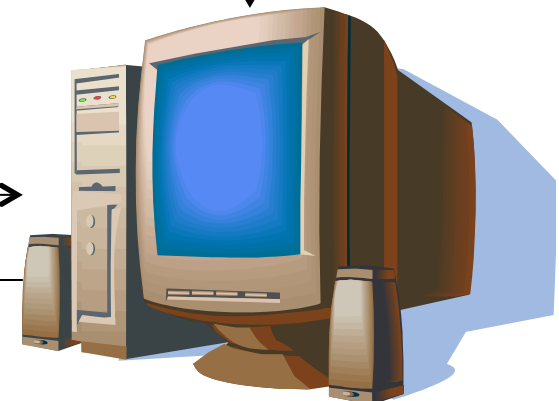
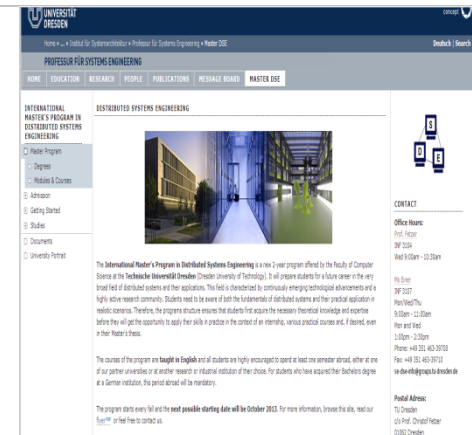
TUD Course Manager

- Connects to TUD server
- Download web pages and extract required links from the pages.
- Lectures and exercises are made available through these links



Connect to university server

Download Web page



TUD web server

- Provide a friendly **user interface** so it incurs less effort at users end.
- Keep in view **limited device resources**(processing power and battery) while processing downloaded web pages .
- ... and providing a **good response time** as well .
- Some technical challenges
 - Keeping data synchronised between tabs.
 - Checking for updates .

- Familiarize with the Android SDK.
- Analyze the task in detail.
- Create a first prototype including all required UI views and layouts.
- Learning and implementing how to download web page and scrap information from them .