



# Mobile Development: Plan for week 05

[week 04](#) - [week 06](#)

## Goal for this week

- You should be able to make simple Android apps using UI and more than one screen-images (more activities)
- You should be able to make your app interacting with some other basic apps using intents
- You should be able to use simple lists and spinner
- You should be able to use options menu in your Android app
- You should be able make customized ListView (and spinner)

## Preparation before Tuesday 2<sup>th</sup> February

- View the video tutorial **1-12 & 18-20** from this playlist - [http://www.youtube.com/playlist?list=PL6qx4CwI9DGBsvRxJJOzG4r4k\\_zLKrnxl](http://www.youtube.com/playlist?list=PL6qx4CwI9DGBsvRxJJOzG4r4k_zLKrnxl)
- You might find these videos useful even if they are use with eclipse – the tool is the same started from Android Studio  
They are in Danish – sorry  
 [Andoid-pbs111: Debugging og afvikling af android apps i eclipse](#)  
 [Andoid-pbs111: Brug af DDMS i eclipse til at kontrolere afvikling af applicationer](#) (Android Device Monitor)
- Make one or 2 small simple APPS (and debug them on device)
  - Ideas for small apps – make one or 2
    - Make a small calculator with 2 input fields and one for result – one button per each calculator function
    - Make a small currency calculator
    - Make a small BMI calculator
- Viewing following tutorial in this playlist:
  - [https://www.youtube.com/playlist?list=PL6qx4CwI9DGBsvRxJJOzG4r4k\\_zLKrnxl](https://www.youtube.com/playlist?list=PL6qx4CwI9DGBsvRxJJOzG4r4k_zLKrnxl)  
**45, 46 (Simple ListView)**
- reading **briefly** about:
  - Tutorial - **simple ListView**: <http://hmkcode.com/android-creating-simple-listview/>
  - Tutorial – Creating an **Options Menu**:  
<http://developer.android.com/guide/topics/ui/menus.html#options-menu>

## Teachers plan for Tuesday 2<sup>th</sup> February (9:00-12:00)

- Follow up on the weeks of study (adjusting plan for week together)
- General structure of the Android project – files – xml.....
- Short talk about Intent - starting another activity / another app  
slides: [Android Intro03.ppt](#)  
example: [Android Bjoerk MoreActivities 20150225.zip](#)  
example: [Android AppIntendSMS EMAIL 20150225.zip](#)
- Short about Options menu and inflate  
[OptionsMenuApp 20150902.zip](#) (inserted after lecture)
- Working with apps – se under preparation to next Friday.
- ?? Special about using customized efficient ListView (and Spinner = combobox) - Also including the webview gui element. link:  
[http://bjoerks.net/klasser/Mobile\\_2015\\_Foraar/materials/Bjoerks\\_ListeDemoActivity\\_20150225.zip](http://bjoerks.net/klasser/Mobile_2015_Foraar/materials/Bjoerks_ListeDemoActivity_20150225.zip)

## Preparation before Friday 5<sup>th</sup> February

- Make some apps using more activities – try also using an Option Menu (and debug them on device)

Ideas for small exercises:

- A small help app on screen button for DadHelpMail, MomHelpSms – when press the button start the mail / sms with a preloaded text “I am well – please send more money” for your dad / mom.  
Expand with a input field and an extra button MailGrand – when press the button start mail to dad with the content from input field and title “news from your lovely grandchild”  
You could also choose to have the amounts you wish and put it into the mail / sms for your parent.
- Expand the last app with a button for setting the mail / phone number – starting up another view (activity) for setting / changing the mail / phone number for your parent / grand.
- Expand with a list of mail to choose for dad .....
- A small app containing a list of food you like – when pressing on the food start at mail for yourself or mom/dad with the title “remember to buy” and the food you have chosen as content.
- Viewing following tutorial in this playlist:
  - [https://www.youtube.com/playlist?list=PL6gx4CwI9DGBsvRxJJOzG4r4k\\_zLKrnxl](https://www.youtube.com/playlist?list=PL6gx4CwI9DGBsvRxJJOzG4r4k_zLKrnxl)  
**47 (Custom ListView Adapter)**
- reading **briefly** about:
  - Tutorial – customer **ListView**:  
[http://www.vogella.com/tutorials/AndroidListView/article.html#adapterown\\_example](http://www.vogella.com/tutorials/AndroidListView/article.html#adapterown_example)
  - Tutorial – **customer ListView** and performance:  
<http://www.vogella.com/tutorials/AndroidListView/article.html#adapterperformance>
- If you have more time to spend – take a briefly look at:

I have found this quite brilliant tutorials that provides many concrete examples of use of various facilities:

<http://www.vogella.com/tutorials/android.html>

<http://www.vogella.com/tutorials/Android/article.html>

Fx Tutorial - more about ListView: <http://www.vogella.com/tutorials/AndroidListView/article.html>

## Teachers plan for Friday 5<sup>th</sup> February – 8:30-10:00 (more will follow)

- Follow up upon app-exercises – student presents
- Eventual follow up on Options menu and inflate [OptionMenuApp\\_20150902.zip](#)
- Special about using customized efficient ListView (and Spinner = combobox) - Also including the webview gui element. link:  
[http://bjoerks.net/klasser/Mobile\\_2015\\_Foraar/materials/Bjoerks\\_ListeDemoActivity\\_20150225.zip](http://bjoerks.net/klasser/Mobile_2015_Foraar/materials/Bjoerks_ListeDemoActivity_20150225.zip)