# Mobile Development: Plan for week 10 [week 09](M2016F_plan_Week08.pdf) - [week 11](M2016F_plan_Week11.pdf)

## Goal for this week

* You should have knowledge about how to use SQLite, Camera, Location and Maps in an app.
* You should be able to work with SQLite, Camera, Location and Maps on your own and then implement it in your app, when needed.
* You should be able to use Application class for keeping data shared between Activities in your app.

**Preparation before Tuesday 8th March**

* Global data (singleton) using the Application class - briefly read
	+ <http://stackoverflow.com/questions/4208886/using-the-android-application-class-to-persist-data>
	+ <http://androidexample.com/Global_Variable_Or_Application_Context_Variable_-_Android_Example/index.php?view=article_discription&aid=114&aaid=136>
	+ <http://www.developerphil.com/dont-store-data-in-the-application-object/>
* SQLite:
	+ View the video tutorial **49-54** from this playlist - <http://www.youtube.com/playlist?list=PL6gx4Cwl9DGBsvRxJJOzG4r4k_zLKrnxl>
	+ SQLite example: [Android\_SQLiteDemo.zip](http://bjoerks.net/klasser/Mobile_2014_Foraar/Materiale/Android_SQLiteDemo.zip) (eclipse format)
	+ SQLite Manager :: extention to Firefox
	<https://addons.mozilla.org/da/firefox/addon/sqlite-manager/>
	+ Se evt. uddrag fra videoer (kun på dansk)
	[Fra tidligere undervisning - om Contentprovider, SQLite og grafik](#_Fra_tidligere_undervisning)
* About Camera
	+ <http://developer.android.com/guide/topics/media/camera.html>
	+ Nice explanation and schematic of Camera2-api.
	<http://jylee-world.blogspot.dk/2014/12/a-tutorial-of-androidhardwarecamera2.html>
* Locations and Maps
	+ <https://developer.android.com/training/building-location.html>
	+ <https://developer.android.com/training/maps/index.html>
	+ From TheNewBoston

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| [135 - Compass and Map Controller](https://www.youtube.com/watch?v=14SiJfIYrvs&list=PL2F07DBCDCC01493A&index=135) |
| [136 - Geocoder and GeoPoint](https://www.youtube.com/watch?v=D_3zkEe71ZM&list=PL2F07DBCDCC01493A&index=136) |
| [137 - Geocoding a Location for an Address](https://www.youtube.com/watch?v=HjwgRIZSjFg&list=PL2F07DBCDCC01493A&index=137) |
| [138 - Toggling Street and Satellite views](https://www.youtube.com/watch?v=7zv6QPbkUIs&list=PL2F07DBCDCC01493A&index=138) |
| [139 - ItemizedOverlay to draw on our Map](https://www.youtube.com/watch?v=soxX_3QYUVc&list=PL2F07DBCDCC01493A&index=139) |
| [140 - Creating a Custom pinpoint](https://www.youtube.com/watch?v=i7EaMbukAl8&list=PL2F07DBCDCC01493A&index=140) |
| [141 - Placing a Pinpoint on a MapView](https://www.youtube.com/watch?v=pLM8ZubmMmY&list=PL2F07DBCDCC01493A&index=141) |
| [142 - LocationManager and Location Permissions](https://www.youtube.com/watch?v=Q5U2cbJNBM8&list=PL2F07DBCDCC01493A&index=142) |
| [143 - Criteria and getting Location](https://www.youtube.com/watch?v=doVEch9WNG8&list=PL2F07DBCDCC01493A&index=143) |
| [144 - Updating with OnLocationChanged method](https://www.youtube.com/watch?v=IJn8va9Z0cM&list=PL2F07DBCDCC01493A&index=144) |

## More links extending to the weekly content

* Observer might be interesting in addition to one model
	+ <http://www.javaworld.com/article/2077258/learn-java/observer-and-observable.html>
	+ <http://www.vogella.com/tutorials/DesignPatternObserver/article.html>
* SQLite
	+ [Fra tidligere undervisning - om Contentprovider, SQLite og grafik](#_Fra_tidligere_undervisning)
	+ example: [Android\_SQLiteDemo.zip](http://bjoerks.net/klasser/Mobile_2014_Foraar/Materiale/Android_SQLiteDemo.zip) (eclipse format)
	+ More examples SQLite – this is using cursor
		- Small example with raw-sql & cursor
		<http://stackoverflow.com/questions/5457699/cursor-adapter-and-sqlite-example>
		- Expanded example with all code using cursor
		<http://www.mysamplecode.com/2012/07/android-listview-cursoradapter-sqlite.html>
		- Another small example with raw-sql & cursor
		<http://andromeda709.blogspot.dk/2012/02/sqlite-simple-example.html>
	+ More usefull links about cursor & listview:
		- <http://stackoverflow.com/questions/12077955/android-using-simplecursoradapter-to-get-data-from-database-to-listview>
		- <http://thinkandroid.wordpress.com/2010/01/09/simplecursoradapters-and-listviews/>
		- <http://stackoverflow.com/questions/13631075/listview-with-cursoradapter>

**Teachers plan for Tuesday 8th March (9:00-12:00)**

* Follow up on the weeks of study (adjusting plan for week together)
* About using SQLite (by Christian Sommer ???)
Fra tidligere undervisning - om Contentprovider, SQLite og grafik
* About using Camera (by ??)
* About using Location and perhaps maps (by ??)
* Working on app (se below)

## Preparation before Friday 11th March

* Try to make small experiments using one or two of the subjects SQLite, Camera, Location and Maps

## Teachers plan for Friday 11th March – 8:30-10:00

* Follow up on the weeks of study (adjusting plan for week together)

## Fra tidligere undervisning - om Contentprovider, SQLite og grafik

**29:30**

[**Mob12F Mobile uge11 part2 - Android**](https://www.youtube.com/watch?v=CbmKbjQAGLM&list=PLWg7ytE2Y07KKBCkoGw6ZR-vxs-FotSjZ&index=9)

**48:23**

[**Mob12F Mobile uge11 part3 - Android**](https://www.youtube.com/watch?v=mTWsgbWimtk&list=PLWg7ytE2Y07KKBCkoGw6ZR-vxs-FotSjZ&index=10)