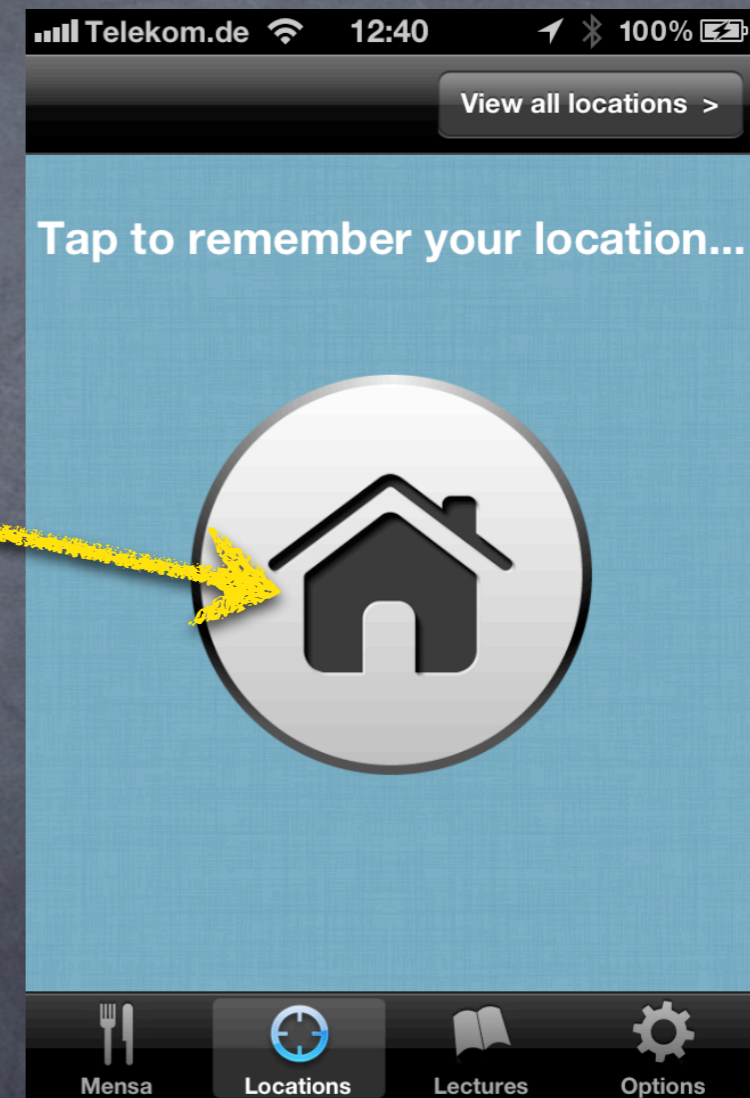# Campus Mate

Second Presentation

Use cases

- You are at a nice location and want to save it
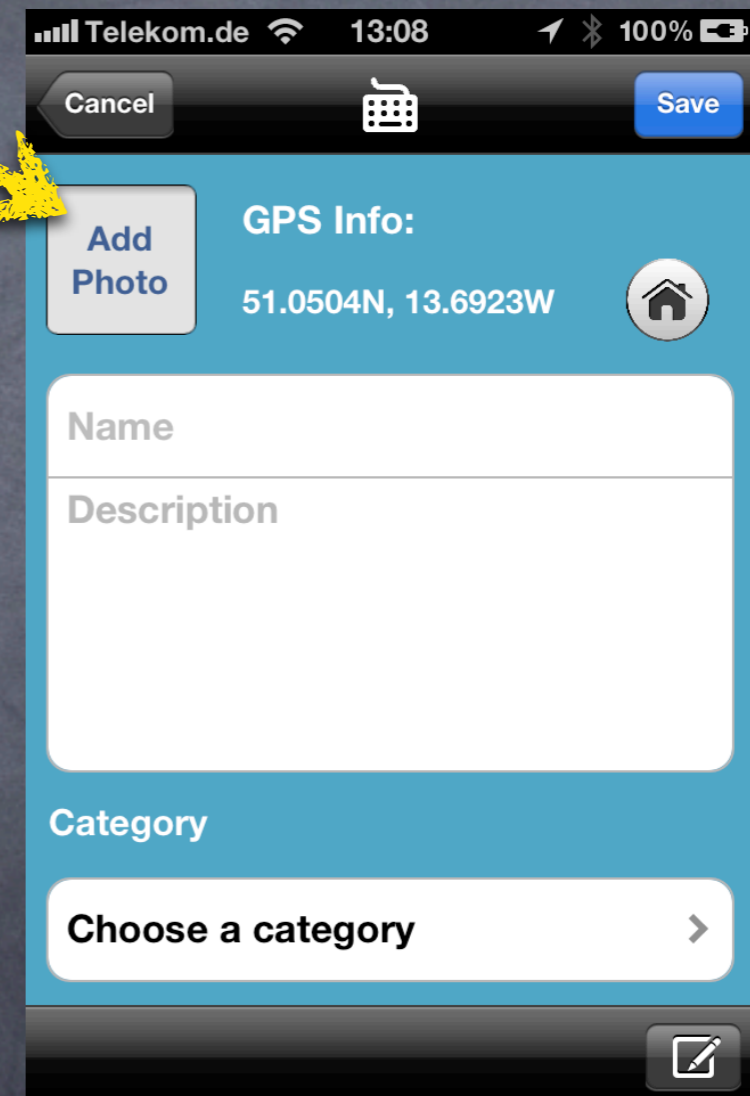
Start screen

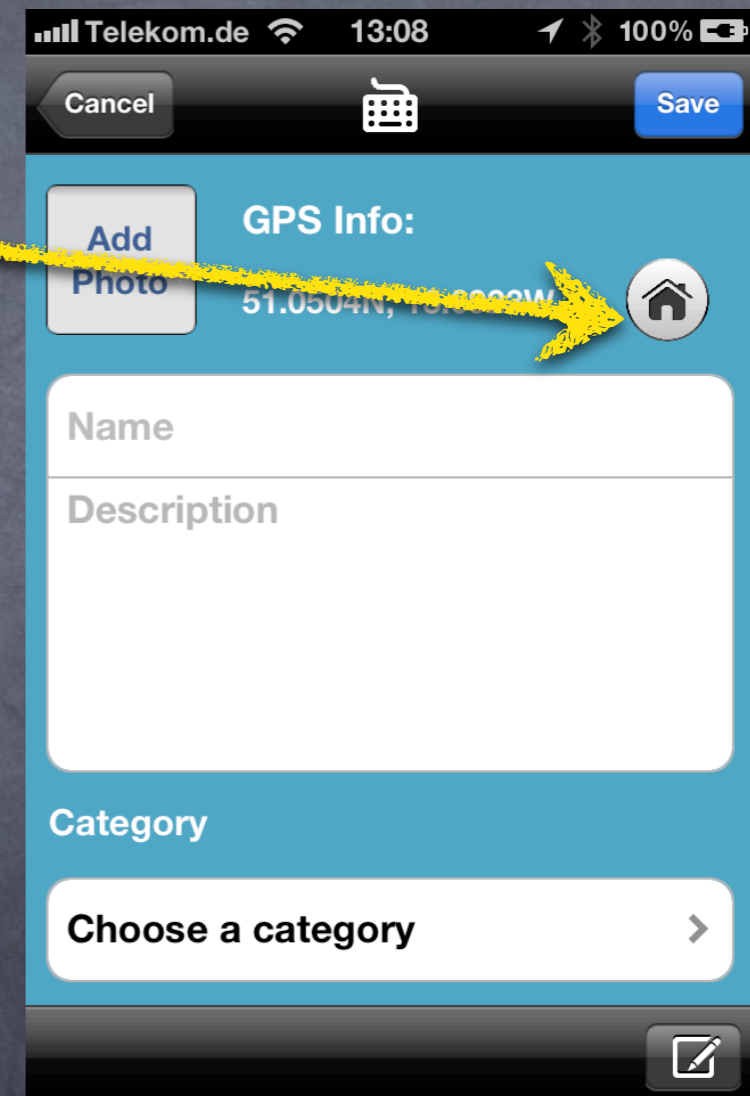- Quickly remember a new location

Remember a new location

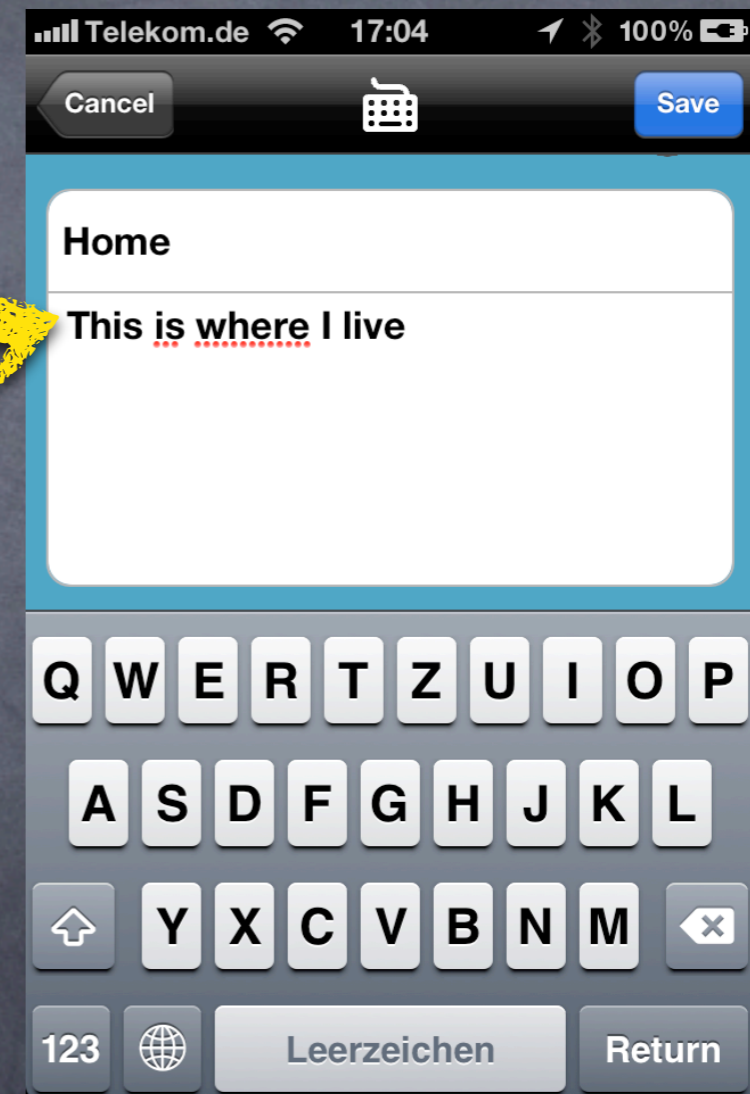- Add a photo (either take a new one or from camera roll)

Remember a new location

- Add a photo (either take a new one or from camera roll)

- Re-adjust geo information to your current location

Remember a new location

- Add a photo (either take a new one or from camera roll)

- Re-adjust geo information to your current location

- Enter a name and description
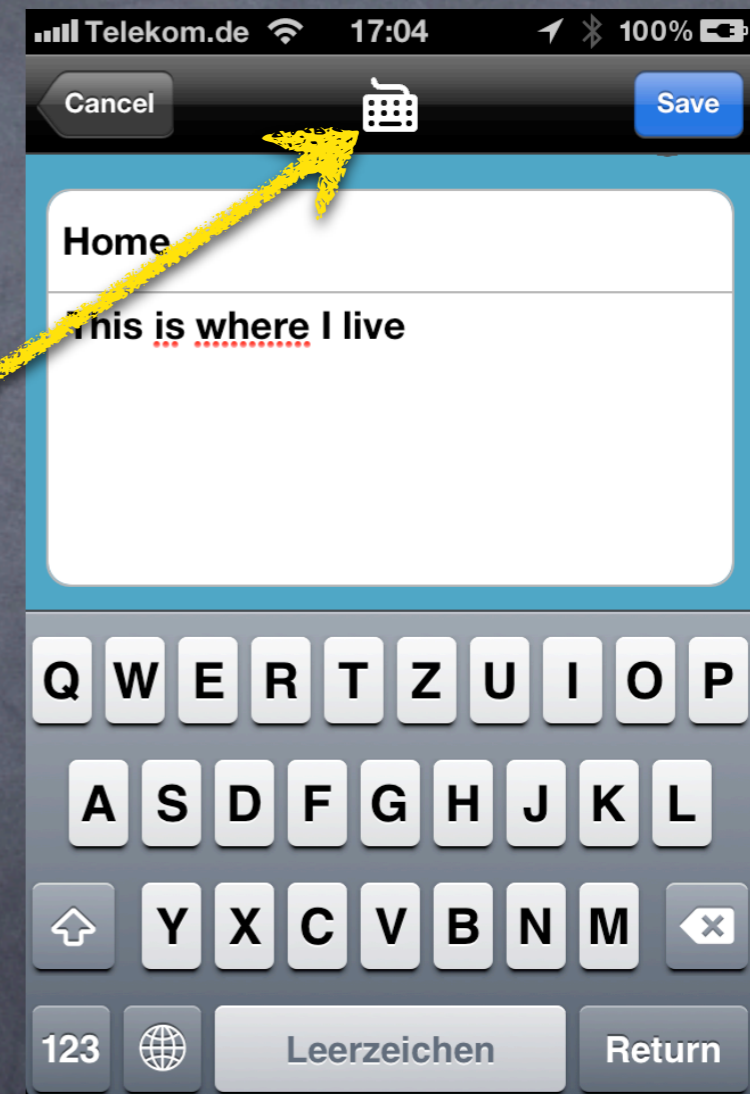
Remember a new location

- Add a photo (either take a new one or from camera roll)

- Re-adjust geo information to your current location

- Enter a name and description

- Resign the keyboard after you are done typing
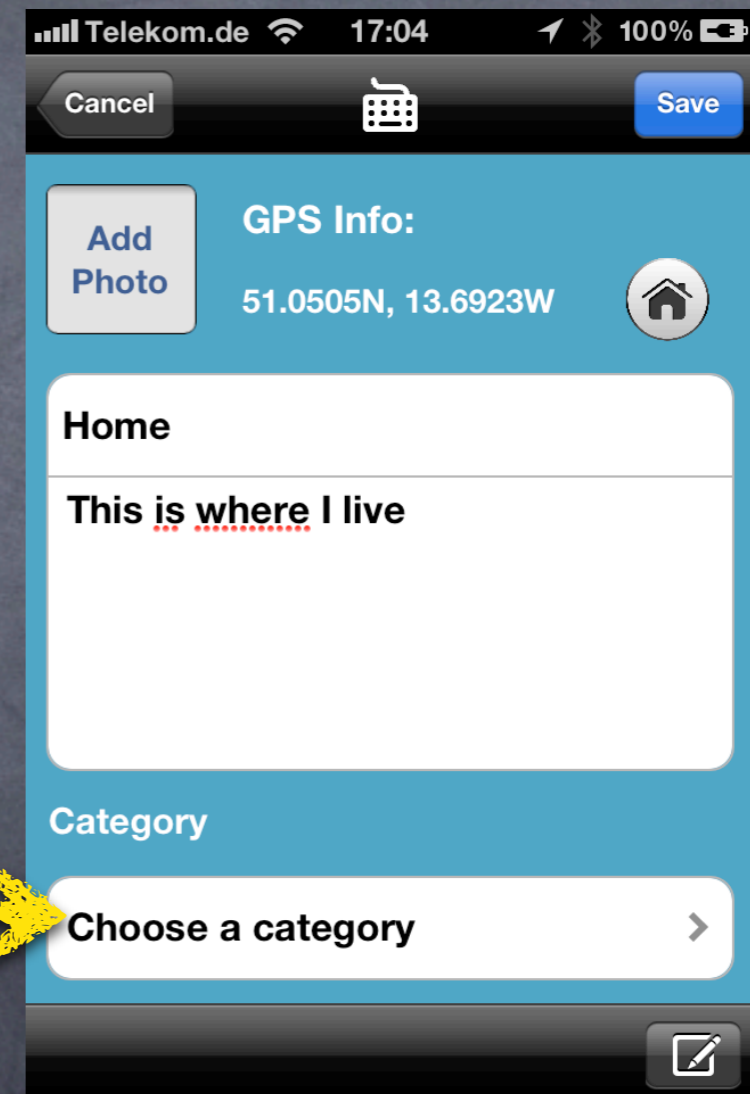
Remember a new location

- Add a photo (either take a new one or from camera roll)

- Re-adjust geo information to your current location

- Enter a name and description

- Resign the keyboard after you are done typing
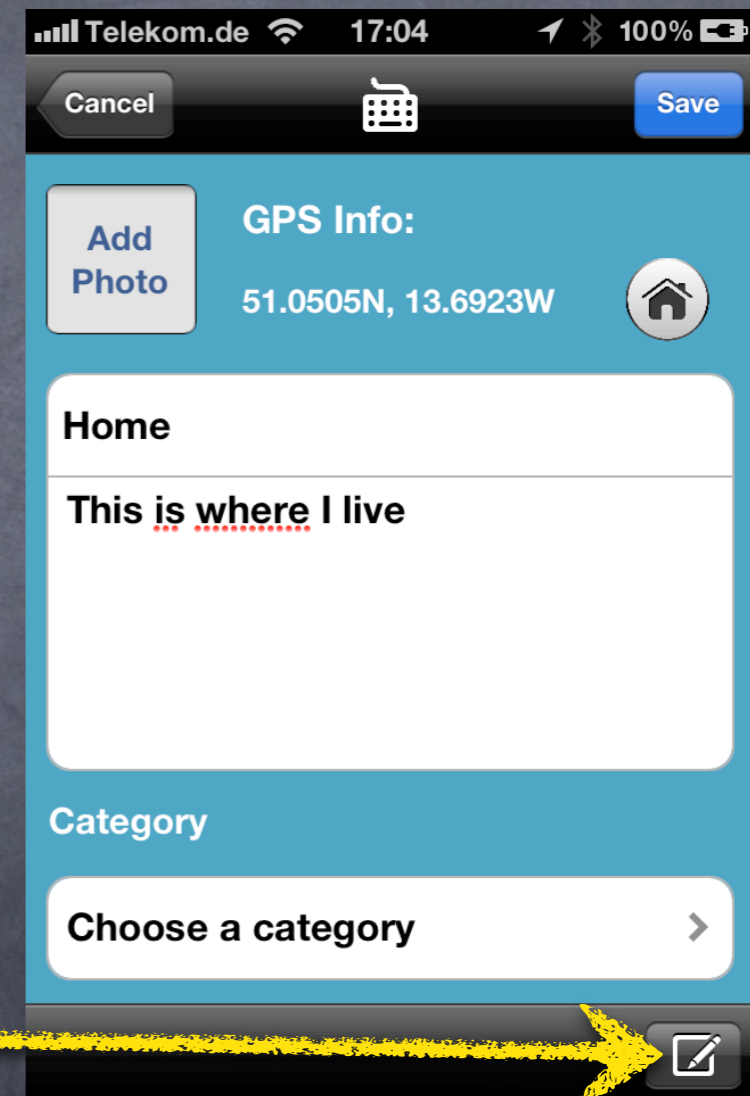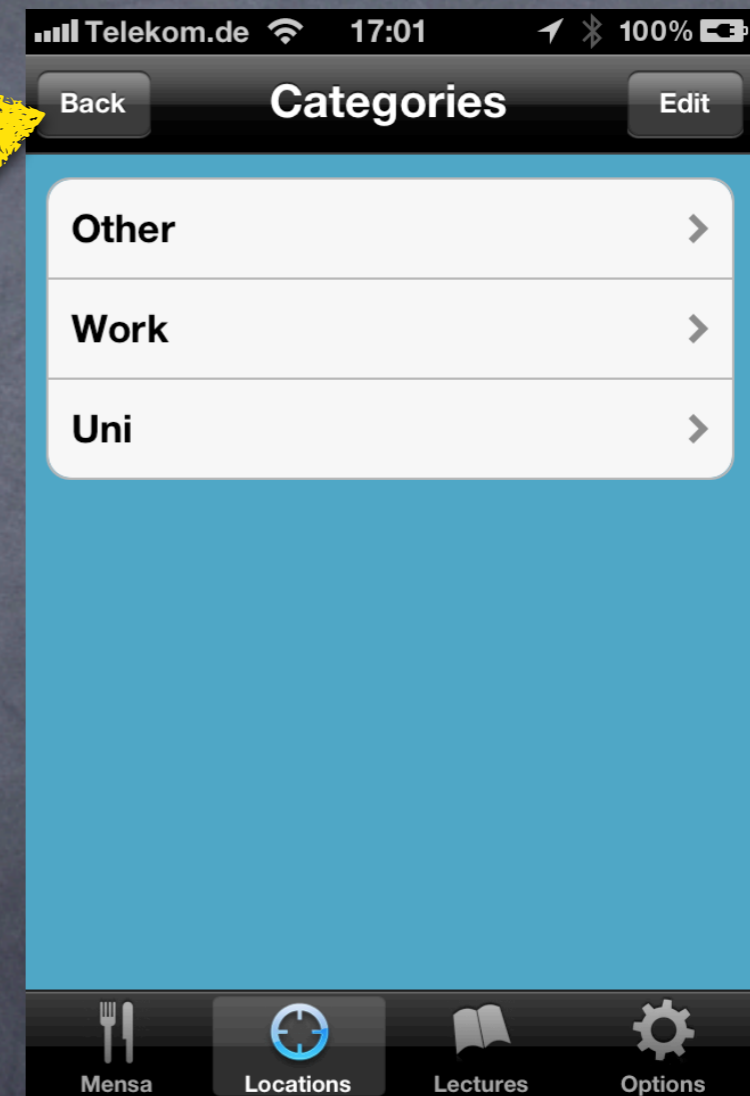
- Choose a category

Remember a new location

- Add a photo (either take a new one or from camera roll)

- Re-adjust geo information to your current location

- Enter a name and description

- Resign the keyboard after you are done typing

- Choose a category
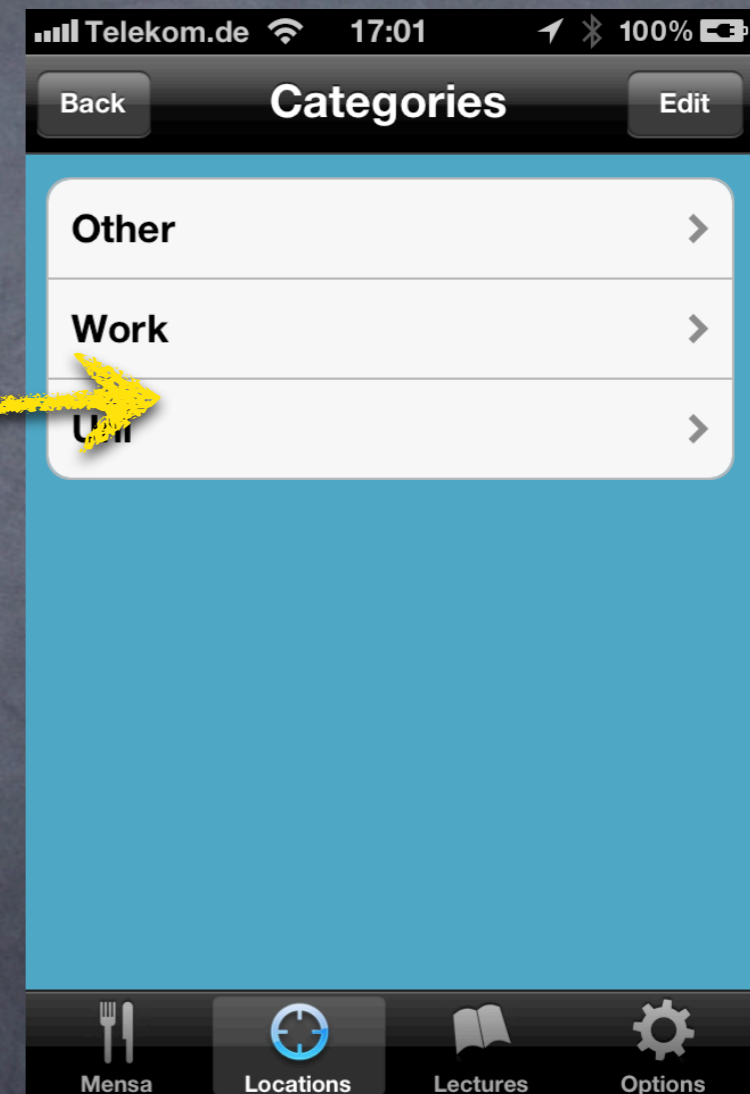
- Share the location (eMail or Twitter)

Choose a category
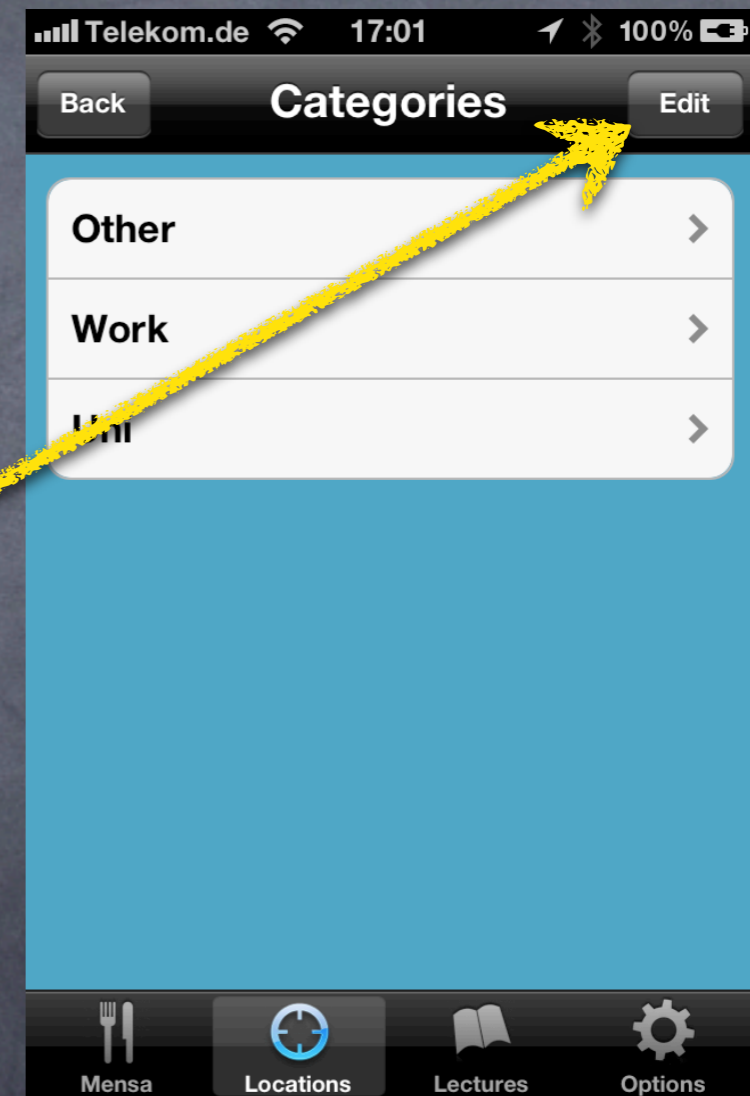
- Go back without any assigning

Choose a category

- Go back without any assigning

- Choose an existing category by tapping on the row

Manage categories

- Go back without any assigning

- Choose an existing category by tapping on the row

- Tap edit to delete, add or edit an existing category
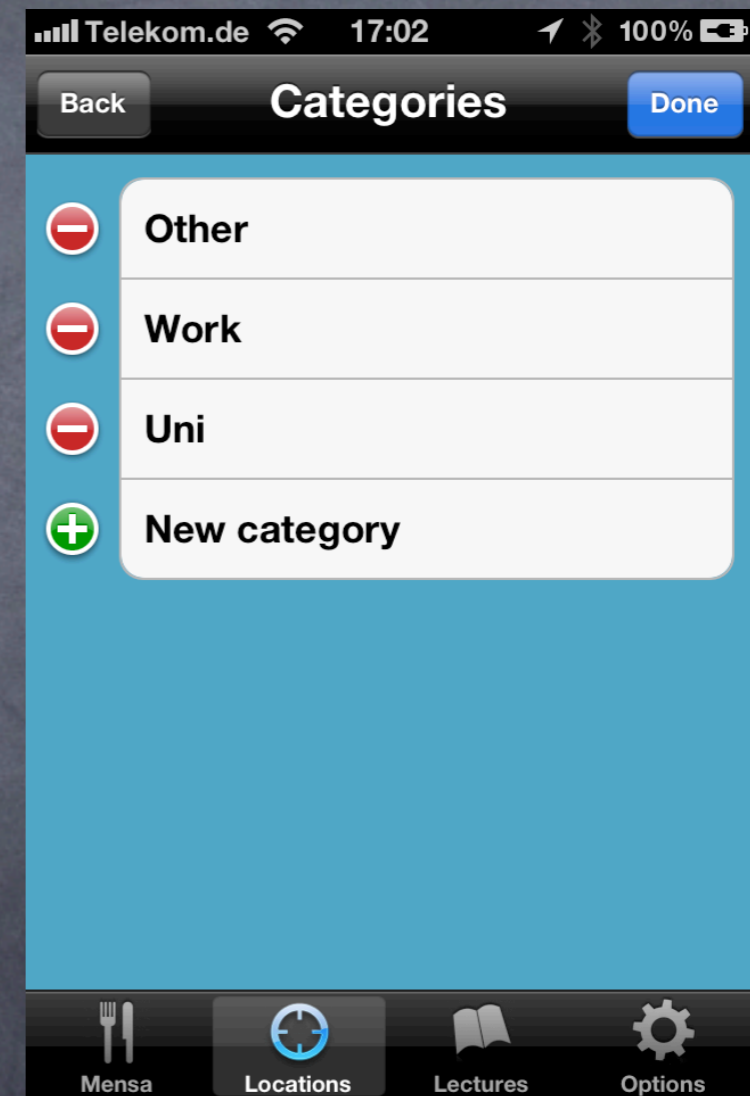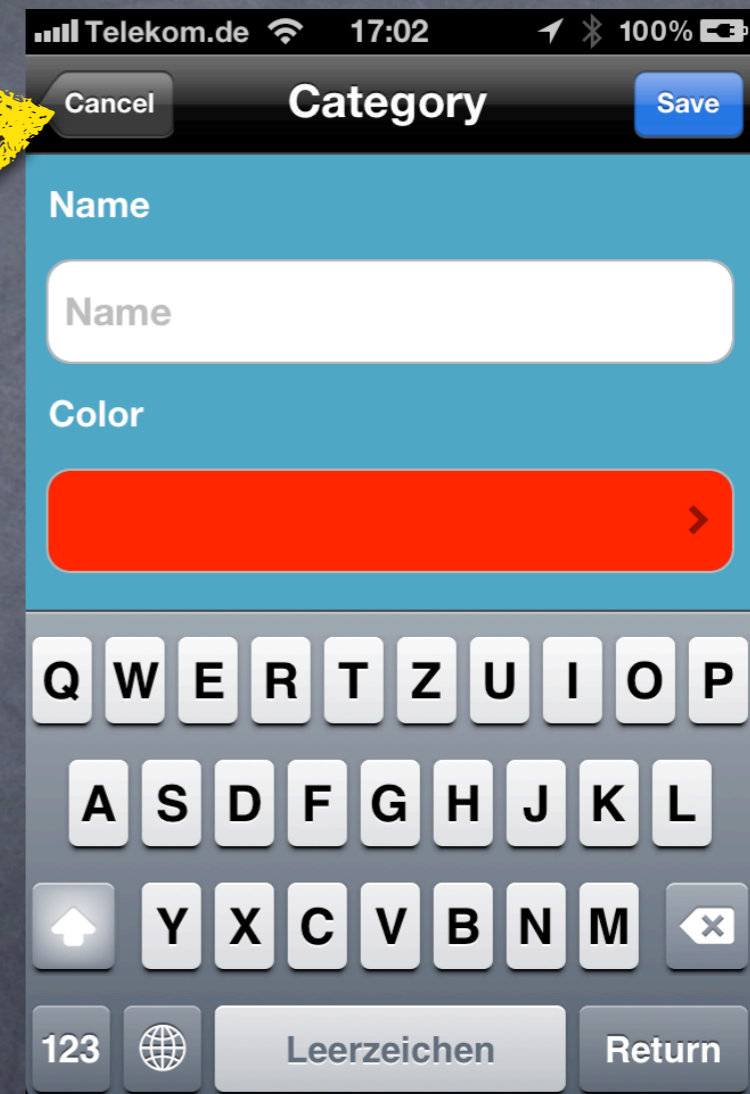
Manage categories

- Go back without any assigning

- Choose an existing category by tapping on the row

- Tap edit to delete, add or edit an existing category
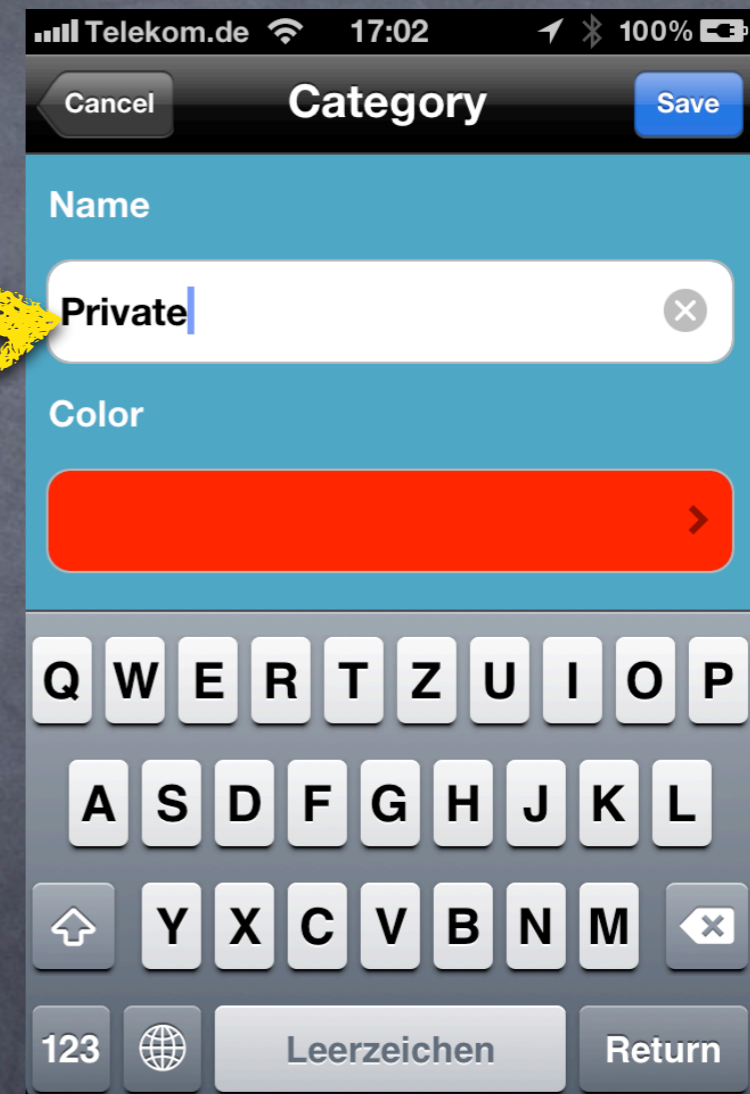
Create or edit a category

- Cancel without a change

Create or edit a category

- Cancel without a change

- Add or edit a name

Create or edit a category

- Cancel without a change

- Add or edit a name

- Choose a (different) color

Choose a color

- Go back without any change

- Choose a color

Create or edit a category

- Cancel without a change

- Add or edit a name

- Choose a (different) color

- Save the changes
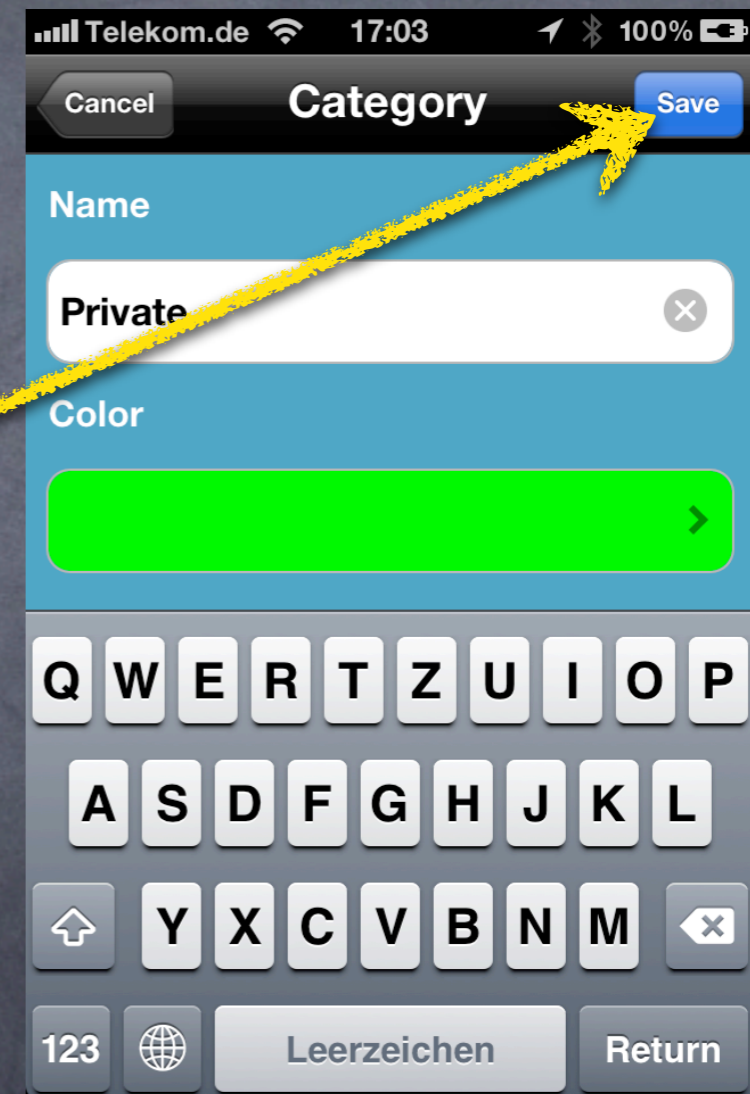
Remember a new location

- Add a photo (either take a new one or from camera roll)

- Re-adjust geo information to your current location

- Enter a name and description

- Resign the keyboard after you are done typing

- Choose a category

- Save the location
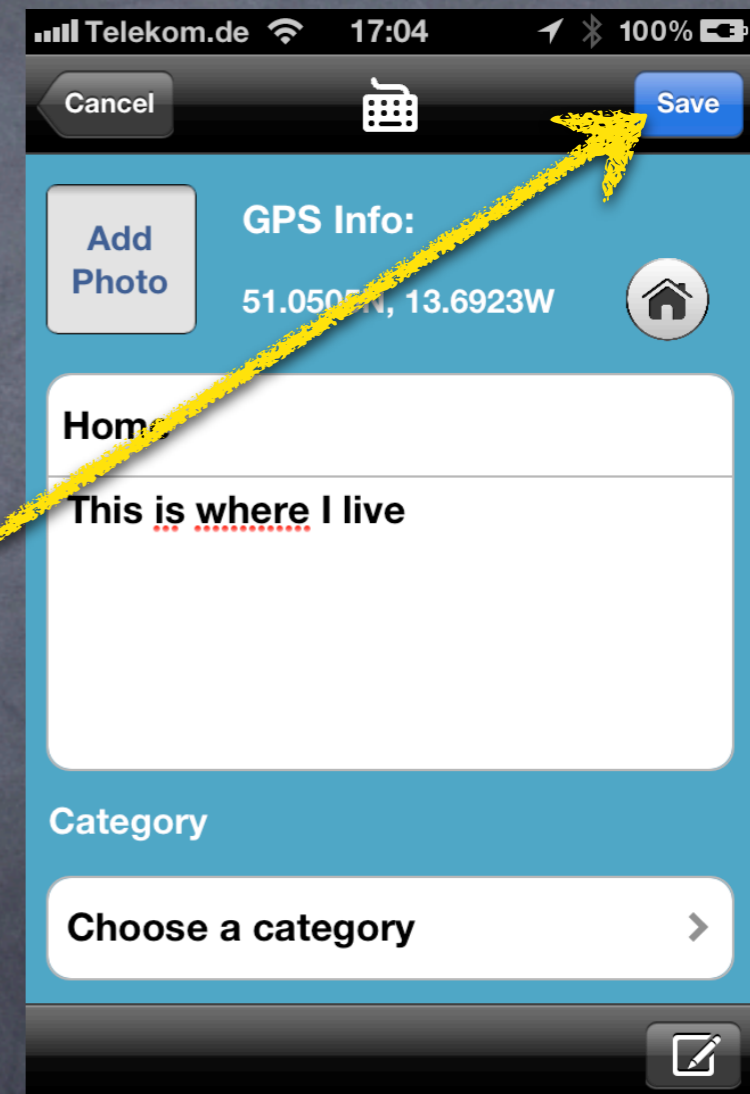
Start screen

- Done ;-)
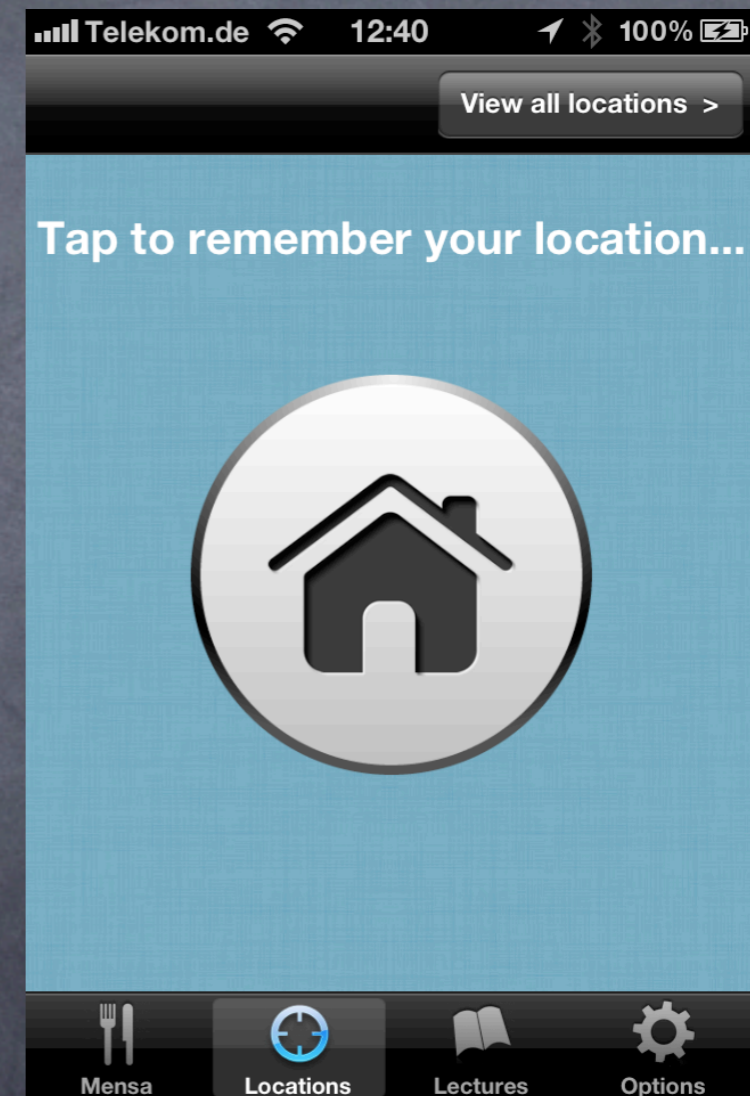
Use cases

- You are at a nice location and want to save it

- You want to view all your saved locations on a map

Start screen

- View all your saved locations
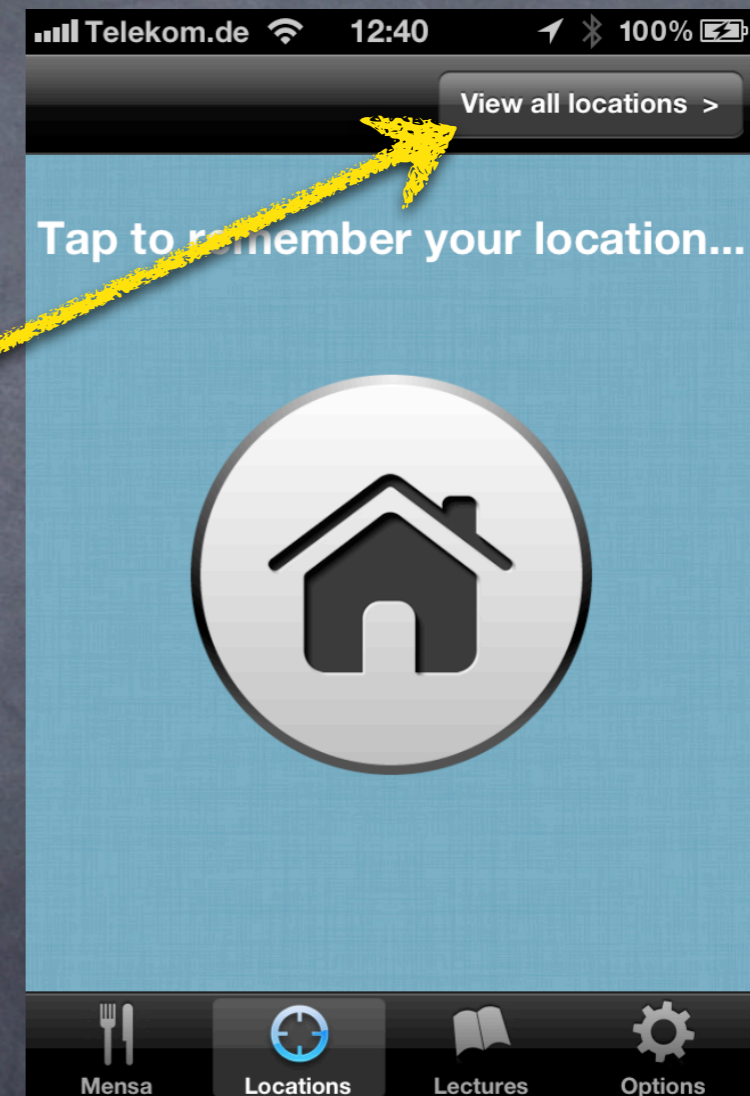
View locations as a list

- Choose a location to come to the detail view of that location where you can edit its information

View locations as a list

- Choose a location to come to the detail view of that location where you can edit its information

- Tap on the upper right button to bring the map view to the front
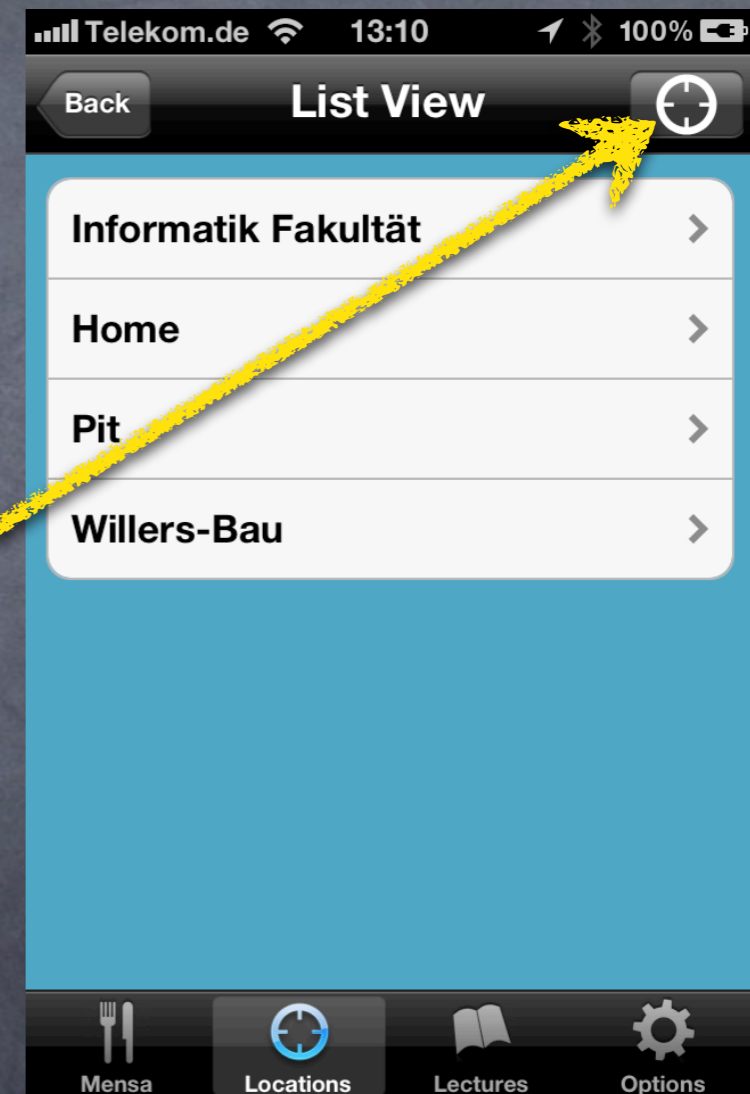
View locations as a map

- Tap on the upper right button to switch back to list view
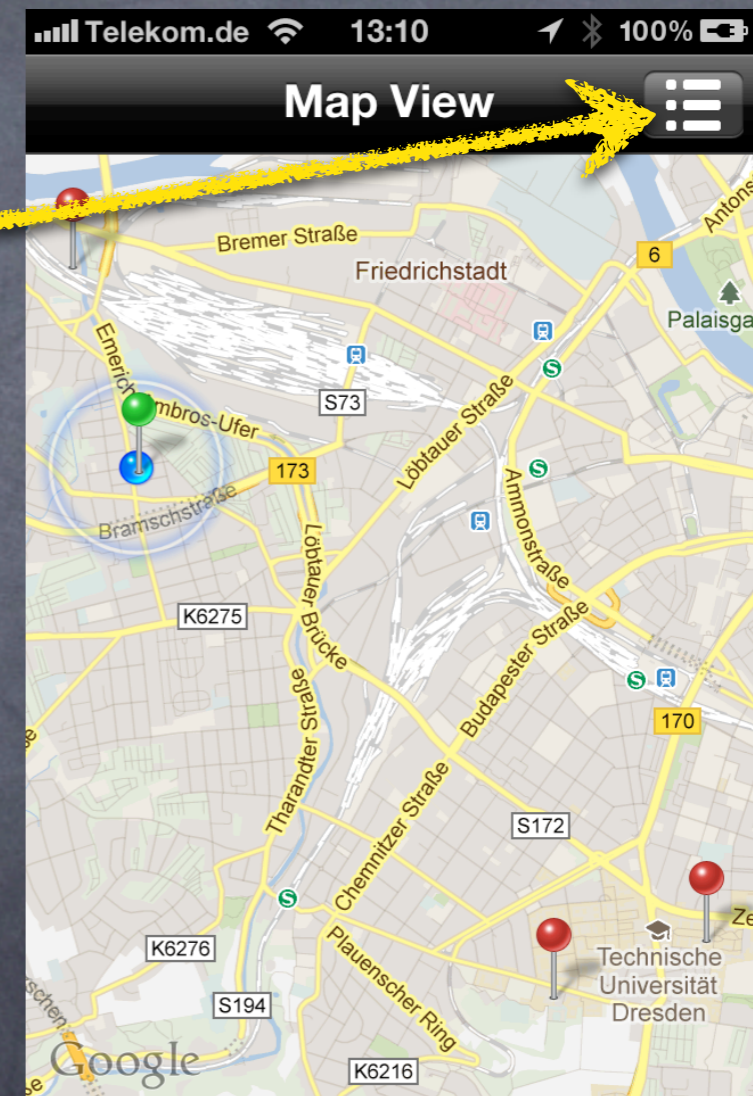
View locations as a map

- Tap on the upper right button to switch to list view

- Tap on a pin to bring up its annotation
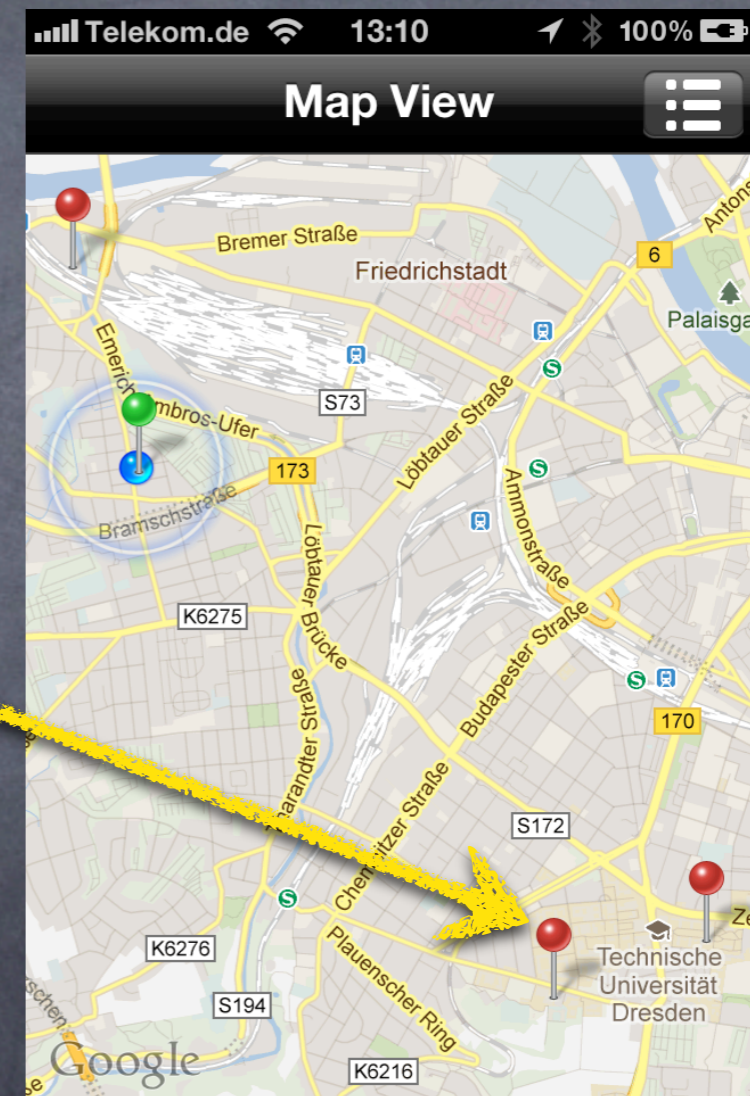
View locations as a map

- Tap on the upper right button to switch to list view

- Tap on a pin to bring up its annotation

View locations as a map

- Tap on the upper right button to switch to list view

- Tap on a pin to bring up its annotation

- The little arrow button brings up the corresponding detail view

Use cases

- You are at a nice location and want to save it

- You want to view all your saved locations on a map

- You like to change the number of locations on the map

Options module

- You can specify how many locations you want to see in map view

Options module

- You can specify how many locations he wants to see in map view
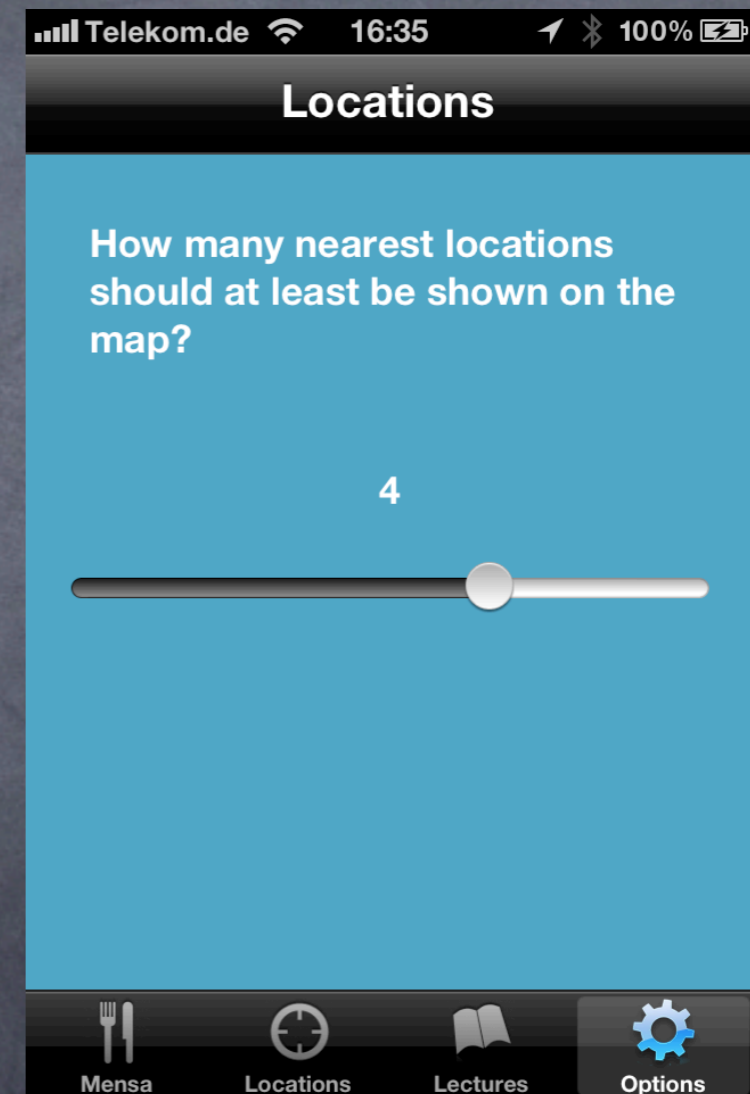
- The slider allows all values from zero to the number of your saved locations
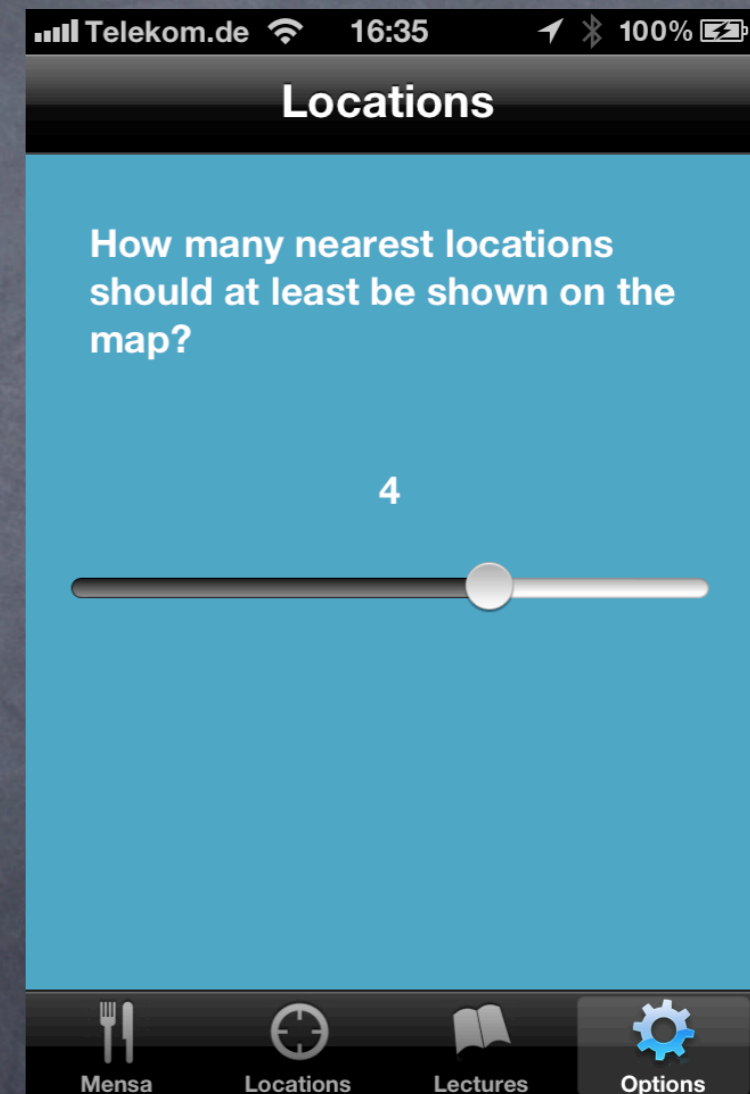
Options module
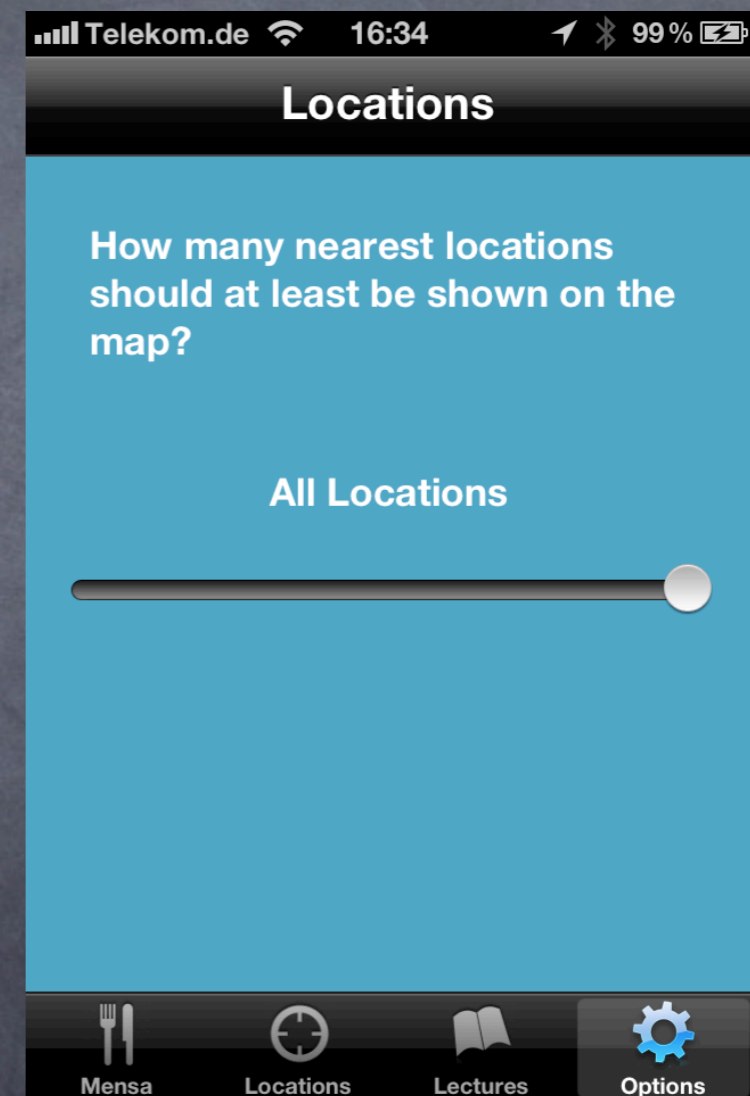
- You can specify how many locations he wants to see in map view

- The slider allows all values from zero to the number of your saved locations

- And additionally „All Locations" which always sets the number of locations to max

Technologies

- Core Data

- Core Location

- 3DAR-Toolkit

- Twitter

Core Data

- required for persistence
- allows to keep data between sessions / app crashes
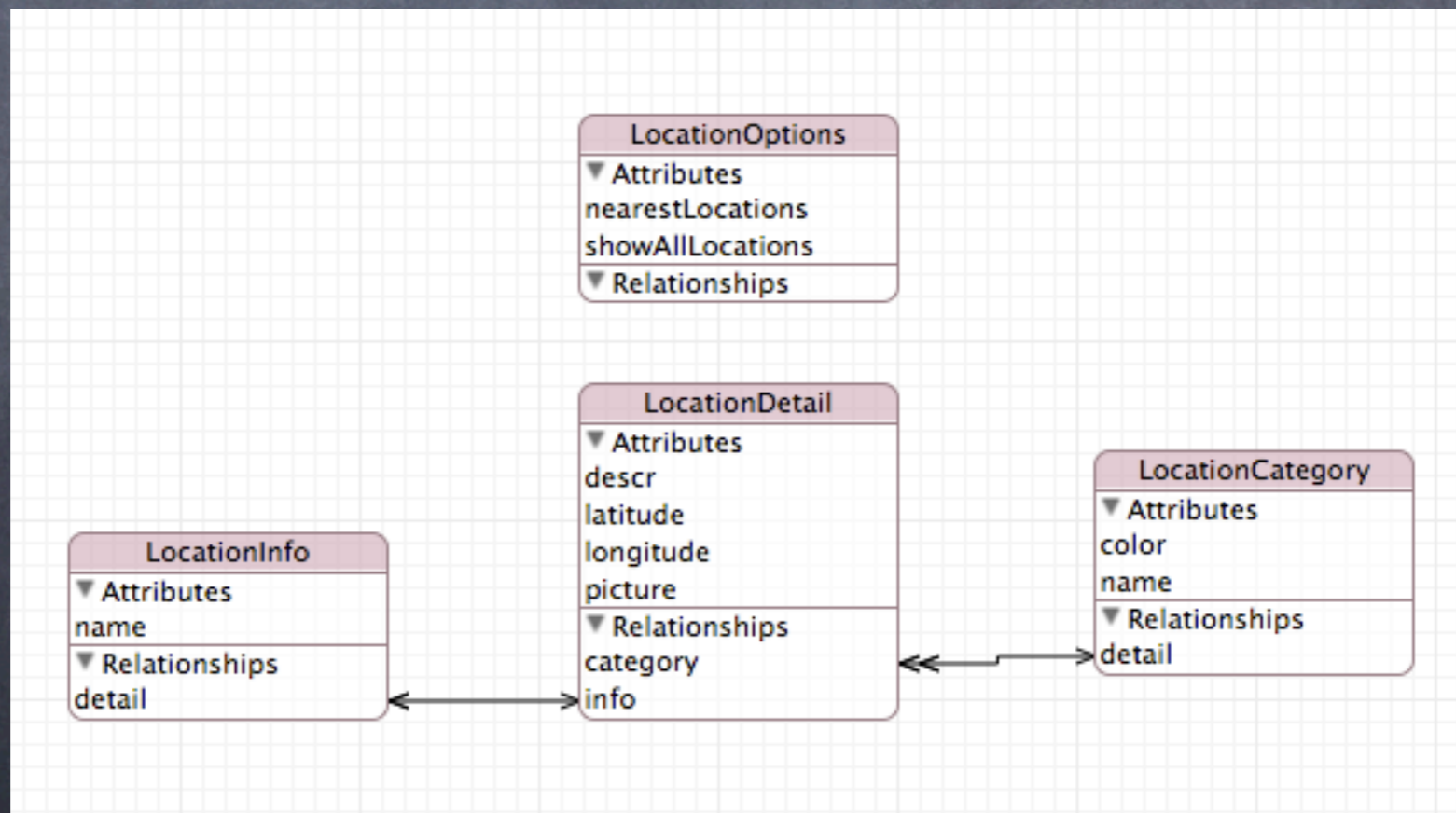
Core Location

- In the framework exists a location manager

- sends location updates to its delegate (my location controller)

- the latest update is saved and can be accessed from everywhere in the app via a singleton pattern

Challenges

- Usability

- Ressource restriction

- Heterogeneity

Usability

Many small things like:

- Resign keyboard button

- memorizable icons

- custom TextField with placeholder text

- . . .

Resource restriction

- fetching only the name from the database to scroll through the locations (should be performant even with thousands of locations)

- small display with only very few information per screen

- Mensa module still open (scraping info from website)

Heterogeneity

- different views on the same data: list view and map view of the locations - augmented reality to come ...

- different user preferences: options module, page view with one page for every module

Open tasks

- Camera views

- eMail, Twitter

- Augmented reality view of the locations

- Mensa module