



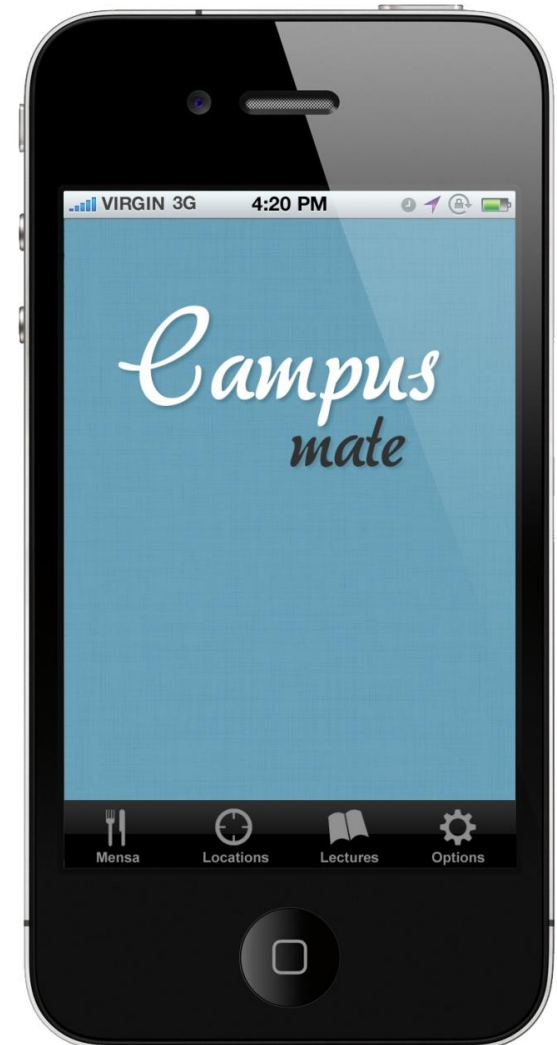
# Application Development for Mobile and Ubiquitous Computing

## Seminar Task First Presentation

GroupNo. 23  
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## Campus mate

- Is a modular structured app
- Contains useful tools and gadgets for your everyday life in a university
- Should be easy (and fun!) to use
- For example:
  - Mensa organizer
  - GPS location of university buildings
  - Lecture organizer
  - Tasks organizer
  - . . .
- Starting with GPS locations



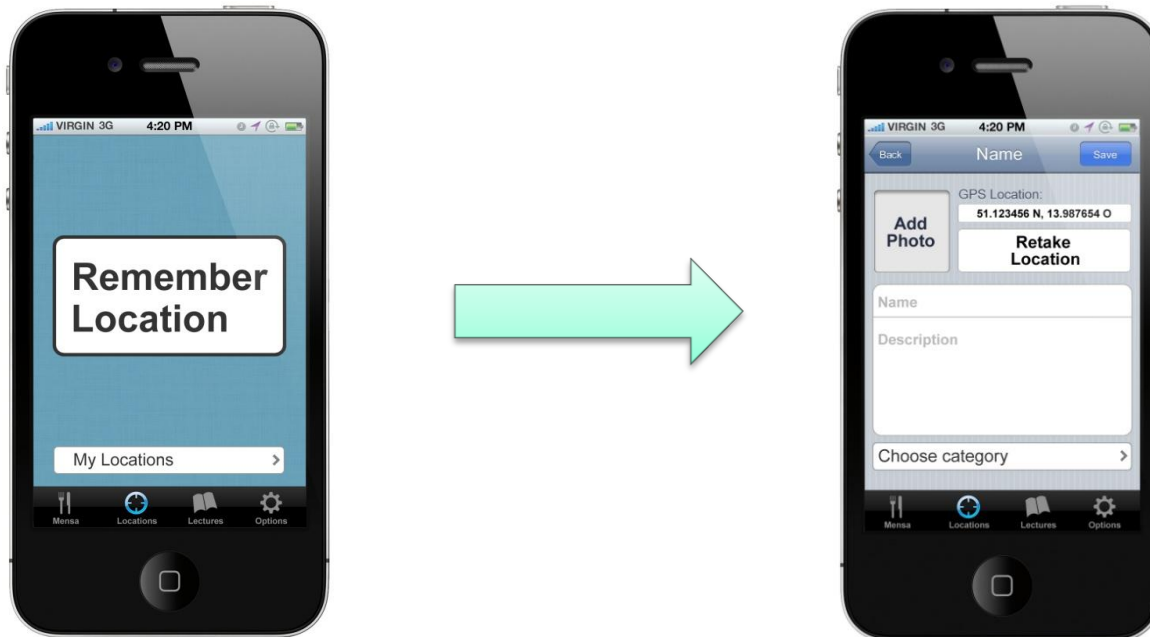
## Locations:

- Quickly store a nice location (1-Button-Solution)



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- Quickly store a nice location (1-Button-Solution)
- Manage locations: e.g. add a photo, description, category, retake GPS location, . . .



- View locations as a list



- View locations as a list
- or on GoogleMaps
  - Apply certain filters to the view
  - See own location and direction

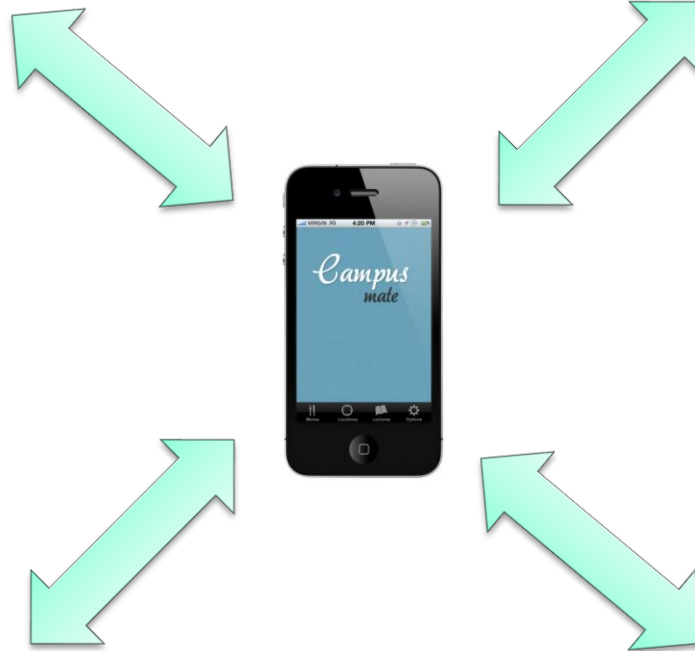
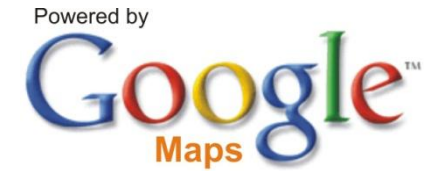


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- Also:
  - export information via Email
  
- Possible additions:
  - Twitter & Facebook integration
  - Augmented Reality





## **Platform:**

iOS 5

## **IDE:**

Xcode 4.2

## **Framework:**

Cocoa Framework

## **Programming Language:**

Objective-C

- Customer Satisfaction
  - Usability!!!
- Resource restrictions
  - Small display → no cluttering, not too much information per view
  - GPS energy consumption
  - Bandwidth → scraping information from the mensa site
- Heterogeneity
  - of user preferences → individualize as much as possible without giving up simplicity
  - of output → different views on the same model

- Learn about Objective C and its commonly used design patterns
- Implement the view controllers
- Learn about MKMapView to integrate GoogleMaps and how to deal with GPS information
- Possibly look at Augmented Reality Integration too
- For the Mensa submenu: learn how to retrieve information from the web site and visualize it in the app
- Twitter / Facebook integration?
- . . .