Design and Implementation of Mobile Applications

Exercise Lectures
Giovanni Quattrocchi
giovanni.quattrocchi@polimi.it
Ph.D., currently post-doc @ DEEPSE lab
Research interests: self-adaptive systems, cloud and edge computing, big-data frameworks*
*Thesis available
Exercise Lectures

- Live coding
- Build a “complete” app from scratch
- Android and iOS...
- …and a bit of some cross-platform frameworks
The Code

https://github.com/gioenn/dima

All the code written in the lectures will be uploaded to the course repository on GitHub.

A separated branch will be dedicated to each lecture.
The app: Movies Diary

- An app for movie fans
- Smartphone and Tablet
- Keeps track of the movies you have watched
- Rate and write a short review about movies
- Sharing
- Search your reviews by different criteria (rate, title, director, etc.)
Android

- Using activities, explicit and implicit intents
- Material design
- Complex layouts
- Managing data
- Integration with a REST API
- Handling search
- Facebook Login
iOS

- Apple MVC
- Swift
- Autolayout
- TableViews
- Facebook Login
Today

- Android Studio
- App Structure
- First App
- Linear Layout
- Constraint Layout
Questions?