

Design and Implementation of Mobile Applications

Exercise Lectures



POLITECNICO DI MILANO

Me

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>

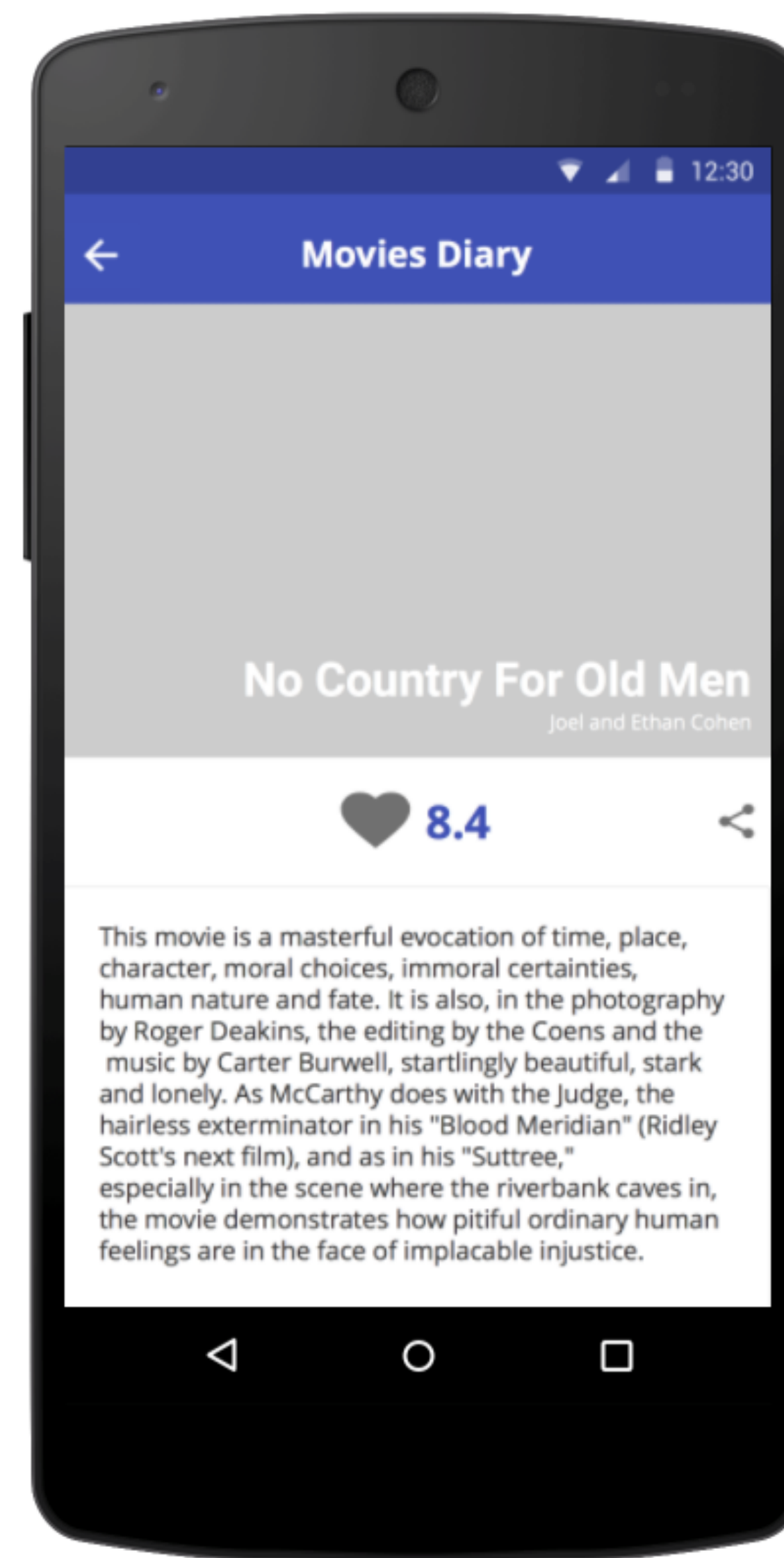
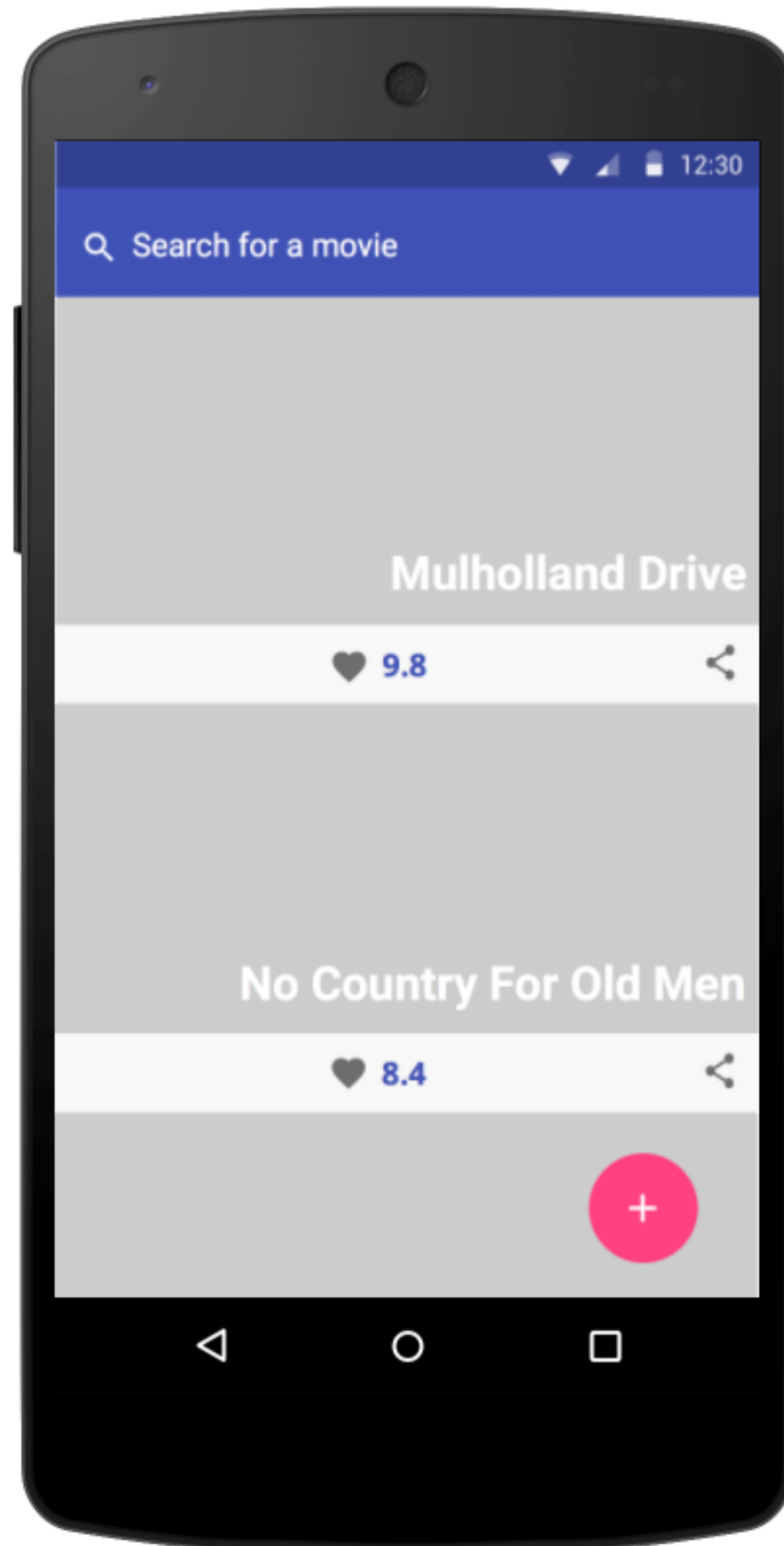
All the code written in the lectures will be uploaded to the course repository on GitHub.

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.)*

Prototype Screenshots



Android

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

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

Today

- *Android Studio*
- *App Structure*
- *First App*
- *Linear Layout*
- *Constraint Layout*

Questions?

