LE/EECS 4443: Mobile User Interfaces

Week 1: Course Introduction

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About Me

- **Name:** Shogo Toyonaga

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- **Office:** LRC

- **Meetings:** Upon Request

Research Interests

Machine Learning & Human-Computer Interaction

Lab Logistics

- **Lab Sections:**
  1. **01:** Tuesday (5:30 p.m. - 7:30 p.m.)
  2. **02:** Friday (3:30 p.m. - 5:30 p.m.)
- **Lab Activities:**
  1. Demos → **In-Person** **Attendance is** <u>required</u>
  2. General Question & Answering
  3. Lecture Recaps
  4. Recitations
- **TA Support:**
  1. **Slack** for quick questions using the appropriate channels.
  2. **TA Website:** shogz-labs.github.io/EECS4443_W25_Assets/

Lab Philosophy

General

Labs will run in a synchronous in-person setting. This will allow for seamless demos and efficient debugging if necessary.

Grading

1. Completeness (Does your application **work?**)
2. Documentation (Is your documentation **informative**?)
3. Efficiency (Is your solution **optimal**?)

Course & Lab Preparation

1 Install Android Studio
  - Prepare for Virtual ∨ Physical Device Demos
  - IDE Configuration (e.g., Macros, Auto-Imports)
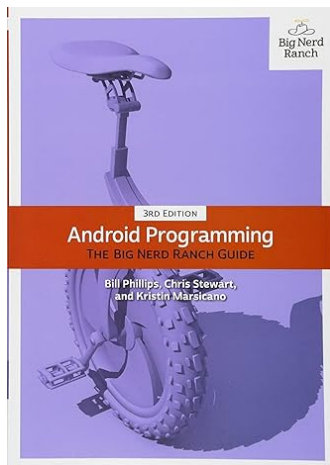
2 Download the Course Demos
  - https://github.com/yorku-ease/EECS4443-Demos

3 **(Optional):** Start to build basic apps and familiarize yourself with the Model-View-Controller design pattern.

Remark

Consult the **Resources** section of this slide deck for excellent tutorials or guides that have been verified by the TA!

Resources (Textbook)

- Provides example demos using **Java** using a step-by-step pedagogy.
- Covers the course content (and more!)

Resources (Media)

1 **Enable Virtualization on Windows 11**

2 **Setting up The Android Studio AVD Android Virtual Device Emulator 2021**

3 **A Quick Introduction to Android Studio**

4 **Android App Development in Java All-in-One Tutorial Series (4 HOURS!)**

Resources (Websites)

1 **Debugging Your Application: Android Documentation**

2 **View logs with Logcat**

3 **Android Lint**

4 **Understanding App Resources (System Design)**

5 **QoL: Keyboard Shortcuts**

6 **TA Course Shell**

Resources (TA Suggestions)

1 Android Emulator (Settings)

- Set the boot type of your emulator to, "cold" under the advanced settings of device manager.
- For improved performance on lower-end hardware, enable developer options on the emulated device and disable window animation scale, transition animation scale, and animator duration scale.

2 Debugging Paradigm

- Build → Rebuild Project
- Sync Projects with Gradle Files
- File → Invalidate Caches
- Logcat
- Breakpoints

Closing Remarks

Remark

Thank you for your time!
Questions?