

# Mobile Programming



Team Project



# Curriculum (cont'd)

---

## ■ Schedule

- Kotlin basics (W1~W3)
- App basics & activities (W4~W5)
- UIs (W6~W9)
- Team Project Overview (W5)
- Midterm-exam (W7)
- Project Proposal (W8)
- Permission & IO (W10)
- Database (W11)
- WIP discussion (W12)
- Web and Sensors (W13)
- TBD (W14)
- Final project presentation (W15)

# Curriculum (cont'd)

---

## ■ Grading

- Assignment 25%
- Midterm exam 25%
- **Project 50%**

# Team Project: Overview

---

- Develop a mobile application based on your own
  - Scenario
  - Design
  - Implementation
  - Report/Presentation
- 2 month length project
- Team-based project

# Team Project: Example

---

## ■ Common project examples

- Diary app
- To-do app
- Budget app
- Fitness app
- News app
- ...

# Team Project: Deliverables

---

## ■ Milestones

- Proposal (25/Oct)
- Work-In-Progress (15/Nov)
- Final presentation (13/Dec)

## ■ Project source files (final)

- Zipped Android project (eClass submission)
- Github repo, if applicable (+@)
  - The project development history must be archived
    - i.e., only 1-day commit for the whole source codes is not accepted

# Team Project: Proposal

---

## ■ Summary of your idea + Q&A

- Application name
- Main application concept
- Basic UI/UX
  - You can use any software/tools to design your components/layouts
  - Even you can just draw your UIs using your pencils
- Expected timeframe
- Role & responsibilities

## ■ When: 25/Oct, 10mins/team

## ■ How: online pre-recorded presentation in English

## ■ Your implementation/design, of course, can be changed in the future!

# Team Project: Work-in-Progress

---

- Summary of your development progress
  - Completed part
  - Incomplete part
  - Role & Responsibilities
  - Any ongoing issues on your project
- When: 15/Nov+ @, 30min/team
- How: Offline team-based meeting w/ tutor @Frontier 610
- Materials to be prepared
  - 1~2 pages length document to discuss
  - Demonstration (live or  $\leq 1$ min video)



# Team Project: Final presentation

---

## ■ Agenda

- Background and motivation
- Role & Responsibilities
- Methodology
- Demonstration

■ When: 13/Dec, 15mins/team (strict, 10mins presentation + 5mins Q/A)

■ How: offline live presentation in English

## ■ Submission format

- PPT slides + Demonstration videos

# Team Project: Grading

---

## ■ Features (30%)

- If your application provides useful/novel/fancy functionalities?

## ■ Completeness (30%)

- If your application features work correctly?

## ■ Self-motivated development (40%)

- More widgets/layouts?
- More device features?
- More 3<sup>rd</sup> party libraries/frameworks?
- More components of Android?

# Team Project Results: 2022

---

## ■ 10 teams

- Info (cctv, trashcan) finding app
- Item (photo, delivery, taxi-riding, survey) sharing app
- Diary app
- Accounting app
- Todo (with Map) App
- ...

# Team Project Results: 2023

---

## ■ 11 teams

- Info (travel, sports, university) finding app
- Item (schedule, delivery) sharing app
- Fitness app
- Diary app
- Store management app
- Todo (with Map) App
- ...

# Team Formation

---

- Random teams

- 2 members for a foreign student team
- 3 members for Korean student teams