

EGCI340: Software Design

– Assignment 1 –

Instructions:

- Name your assignment file as a1_studentID. For example, a1_6512345.pdf for PDF or a1_6512345.docx for Word document.
- Please submit your assignment in PDF format by **November 14, 2025, at 12:00PM** (No late submission)

Section 1 (3 marks)

- Create user and system requirements for AirVisual/IQAir
Your SRS must contain at least:
 - 1 user requirements
 - 2 functional requirements according to your user requirements
 - 1 non-functional requirement according to your user requirements
 - Your requirement must follow Ex-User-Requirements_student.docx

Section 2 (7 marks)

Please answer these 2 questions below according to your assigned software in the first part.

1. According to your assigned mobile application in part 1 (AirVisual/IQAir), please answer the questions below.
 - 1.1. What is the software process model to develop your assigned software? Please provide a reason to support your answer. (1 marks)
 - 1.2. What is the interactor viewpoint? Who are the interactor viewpoint's stakeholders for your assigned software? Please explain. (1 marks)
 - 1.3. What is the indirect viewpoint? Who are the indirect viewpoint's stakeholders for your assigned software? Please explain. (1 marks)
2. According to your assigned mobile application, please draw the diagrams below.
 - 2.1. Draw the use-case diagram of your assigned software. (2 marks)
 - 2.2. Draw the activity diagram of the process of
 - Finding the 7-days forecast of air quality index (AQI) in Mae Rim, Chiang Mai.

Your diagram must contain all main activities/actions on the client side (only on mobile application side) and you do not need to provide the activities/actions on the server side. (2 marks)

- If you do not want to install the software, there are many videos on Youtube explaining about checking the AQI by AirVisual/IQAir.