# PBL Program on Software Development with Various Asian Universities

Date	Place	Partner Organization	Students' Major and Grade	Participants' Information	SIT Instructor
February22 ~March09, 2021	Japan	Dong A University Ming Chi University of Technology Malaysia-Japan International Institute of Technology UCSI University Kyungpook National University	Department of Computer Science and Engineering Department of Electronic Information Systems ・Undergraduate 2nd grade ・Undergraduate 3rd grade ・Undergraduate 4th grade	(SIT) Students 10, TA 4, Professor 5, Staff 1 (Dong A University) Students 10, TA 2, Professor 1 (Ming Chi University of Technology) Students 15, Professor 2 (Malaysia-Japan International Institute of Technology) Students 5 (UCSI University) Students 18 (Kyungpook National University) Students 3	FUKUDA Hiroaki (Department of Information Science and Engineering) MIYOSHI Takumi (Department of Electronic Information Systems) YAMAZAKI Taku (Department of Electronic Information Systems) YOSHIKUBO Hatsuko (Innovative Global Program) ISHIZAKI Hiroyuki (SIT Malaysia satellite Office)

Demo Videos
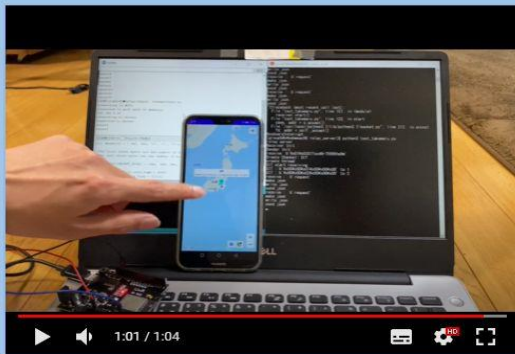
Android app receiving data from the server (update every 5 minutes)

ESP32 from multiple countries (Taiwan and Malaysia) sending data to the server.

Image1 System developed by Team 5

A global PBL program on Network Software was held from Feb. 22 to Mar. 9, 2021 with 61 students: 10 from SIT, 10 from Dong A University, Vietnam (UDA), 15 from Ming Chi University of Technology, Taiwan (MCUT), 18 from UCSI University, Malaysia (UCSI), 5 from Malaysia-Japan International Institute of Technology, Malaysia (MJIIT), and 3 from Kyungpook National University (KNU). It had been scheduled a joint program among SIT, UDA, and MCUT, but it was extended larger with UCSI, MJIIT, and KNU, as including Sakura Science Progam.

The 61 students were divided into 10 teams, which included one SIT student. Due to the schedule overlap with another program, the schedule was irregularly set to 2/22-26, 3/3, and 3/8-9. The interim period was considered as a self-study period by group work, with the midterm presentation on 3/3 and the final presentation on 3/9. Each team developed an application that is connected via a internet while performing environmental sensing using sensors and embedded systems in a team consisting of multiple countries. All the teams have succeeded in developing an elaborate system by sharing ideas.
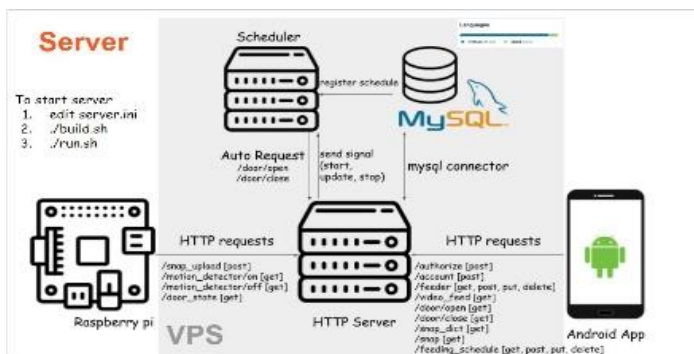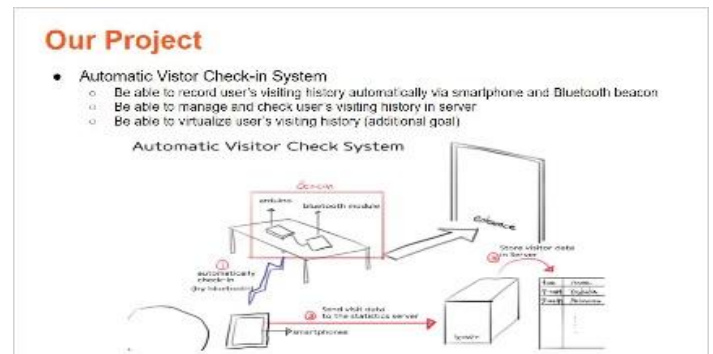

Image2 Software Design on Team 1

Image3 System Design on Team 10