

Group Formation and Topic Selection

Name	Student number	Study program	ECTS for project
Anne Schneider	313444	GBE	15
Jordi Lazo	313296	Software Engineering	15
Nils Franke	313446	GBE	15

Project title: The title of the project:

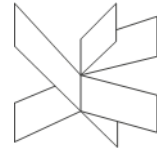
Automatic registration of students' presence in classes and around the facility.

Background: A short explanation about the background for the project topic:

After the construction of the new facilities for the VIA university, the university management has found the need to control the entry of students and guests into the university and the attendance in classes. This control would facilitate classroom management for teachers and would improve other aspects.

Purpose (WHY):

- The system will check if student or a guest attend the correct class or course (for prof & student)
- The system will control the number of students attending the classes for future time and room scheduling
- The system will prevent the entrance of unauthorized persons (only students are allowed in the area)



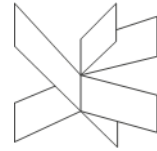
- Data gathering for future use: improvements of classes (more attendance), final grade in relation to attendance, attendance in guest lectures

Problem(WHAT):

With the new facility the problem of room scheduling has arisen. In order to fit all students of the corresponding classes in an available room, a tool for optimizing room resources is necessary. Furthermore, due to the high number of students there is no possibility to control the attendance in mandatory classes. Taken into account we are in a state of a global pandemic, a control (log-book) of persons entering the facility could help to tracing contacts and therefore the further spreading of viruses.

Keywords: A list of main topics in the project:

- Control attendance
- Optimizing room resources
- Data gathering to improve future classes or courses
- Student control by scanner or qr code
- Mobile app
- Data security
- Smartphone system (android and iOs)
- Functional and non-functional requirements

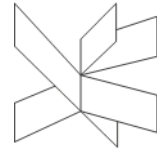


The importance of 3 GBE in this project:

The GBE students will do the “groundwork” for the application requirements and database. Furthermore, the final design, the workflow within the application as well as the testing of the prototype will be a group effort with input from everyone involved. Also the GBE students can help with interviews (requirements), research (database & feasibility) and promotion. Even if the project is about the development of a new mobile application, writing the code will be just one task of many.

Individual learning objectives: Please state individual learning objectives based on interest and feedback from previous projects and Process Report reflections.

Name	Learning objectives
Anne Schneider	<ul style="list-style-type: none">- Development of an app concept/create app from scratch (process workflow, design, feasibility), insights to a new field of experience.- Improve research skills for requirements & necessary data (deeper understanding for methods).- Improve project management skills, improve writing skills/English terminology.- Learn new aspects & perspectives within international projects.- Experience to work in an international team with different background & skill sets.
Jordi Lazo	<ul style="list-style-type: none">- Development of an application for the systems android and ios.- Learn how to use .net technology.- Learn how to develop a mobile application with xamarin and C #.- Improve skills in the Visual Studio IDE.- Deploy and test a mobile application.
Nils Franke	<ul style="list-style-type: none">- Learn more about app development and also design the app.



	<ul style="list-style-type: none">- Documentation of useful data and also a whole project.- Time management within a bigger project.- How to work in a group where there is a language barrier- improve english skills.- To choose and apply suitable research methods to improve research skills.

Initial acceptance:

Date:

Name:

Supervisors Signature:

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