1. Application Proposal



Revolutionary Online Education Platform for School using Real-Time Eye Tracking Software

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01. BACKGROUND





Real-time Video Classes are prevalent due to COVID-19



Problem

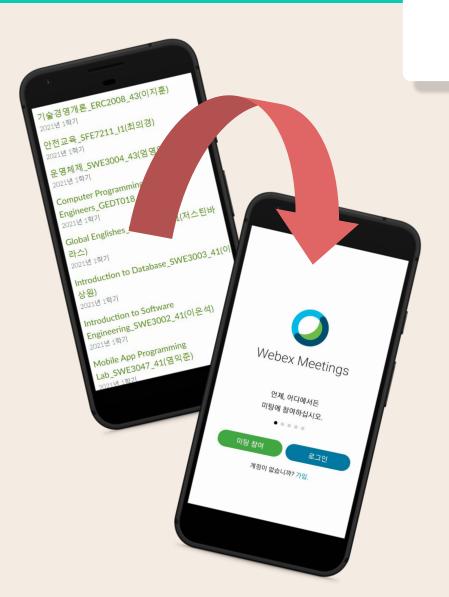


It is difficult to check students' concentration...

How does the professor know that students are concentrating on the class?



Problem



I'm so annoying to find the Webex meeting room number for each class..



02. PROJECT OVERVIEW



Goals



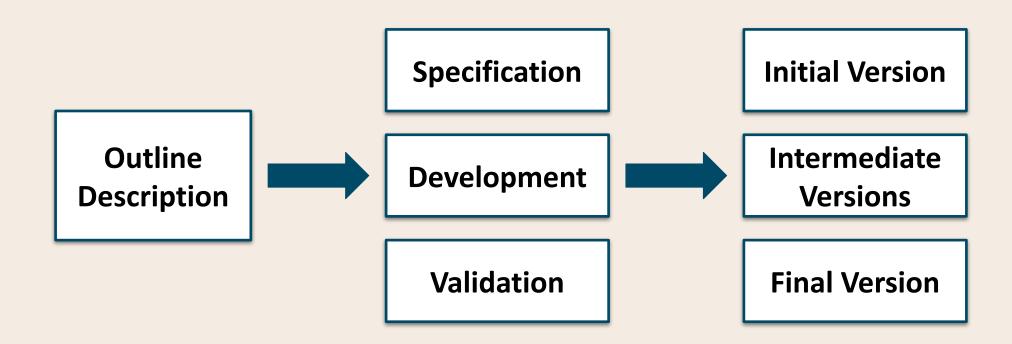


integrate online meeting & online course

check student's attention in real-time online lecture and get reports



Development Model



use incremental development model for constant feedback and revision



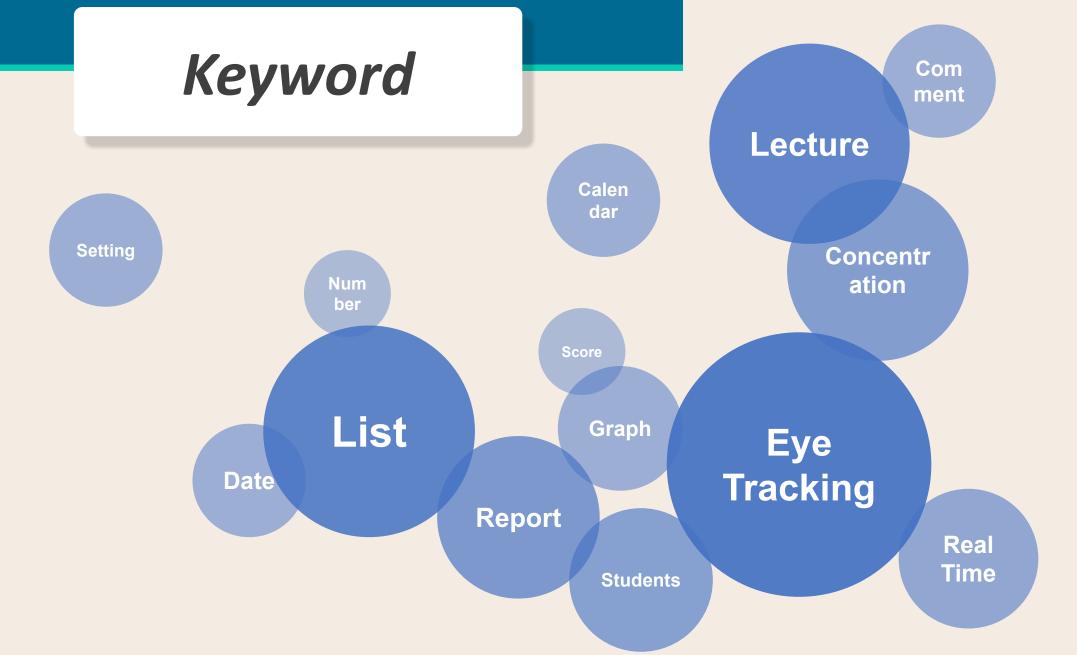
Schedule

Development Schedule	
Proposal Document	4/4
Requirement Specification	4/25
Outline Description	4/30
Initial Version Development	5/7
Final Version Development	5/14
Design Specification	5/16
Test Specification	5/30



03. DESIGN CONCEPT







Main Page **Selection List**

Class List(Scroll)

Concentration Score

Schedule

Class List **Lecture List**

Live Streaming

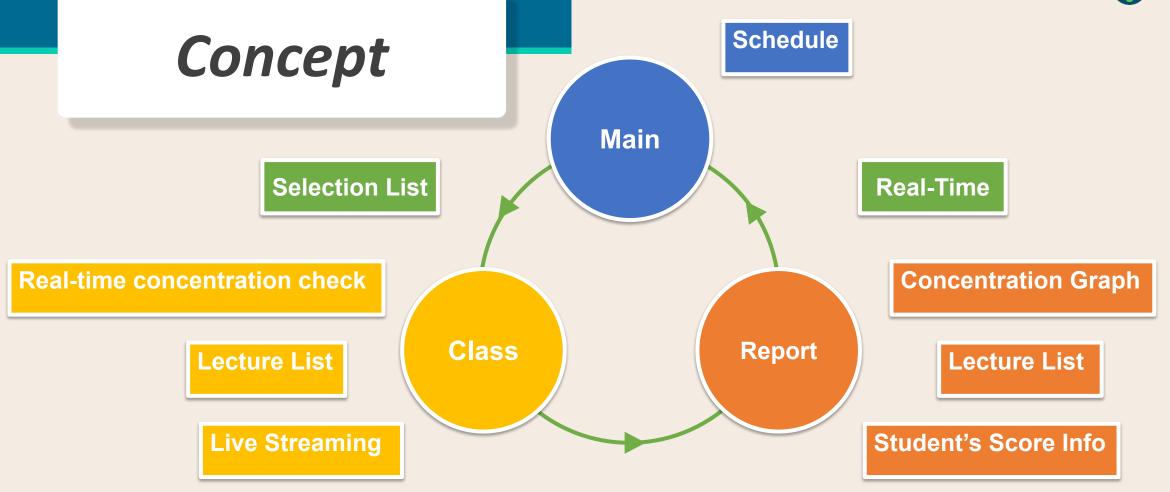
Real-time concentration check

Class Report **Concentration Graph**

Lecture List(Scroll)

Each Student's Score Info





Eye Tracking



UI/Ux design_(Main)

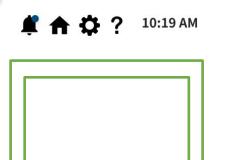
Q



Professor

(Selection List)
Class List
Class Report
Notices
Setting



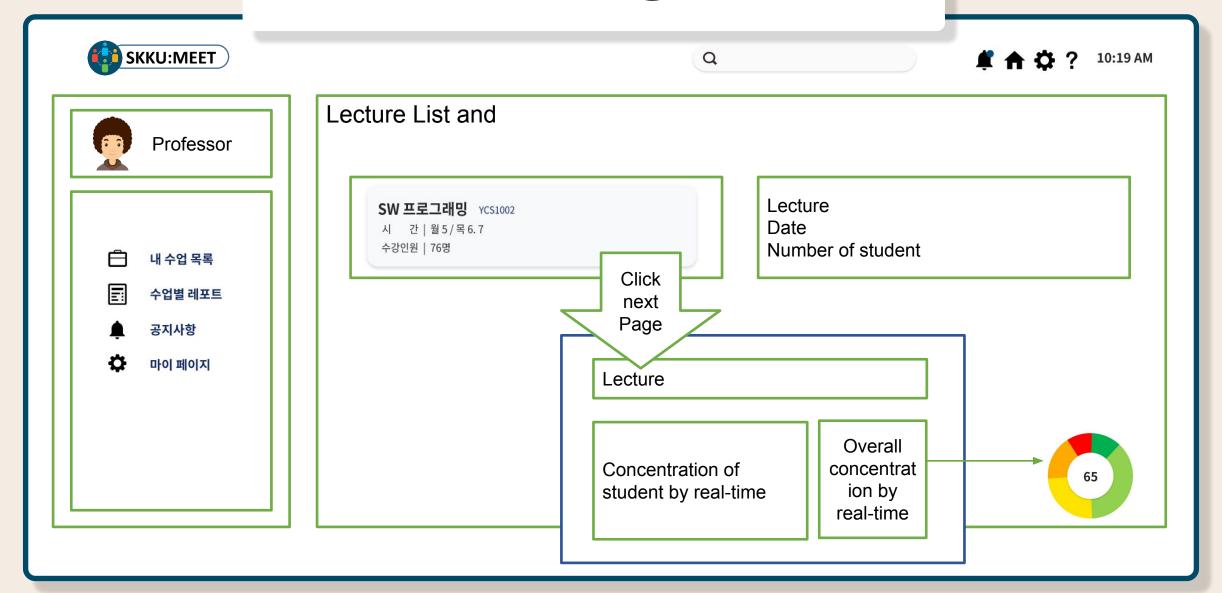


Schedule





UI/Ux design_(Class List)





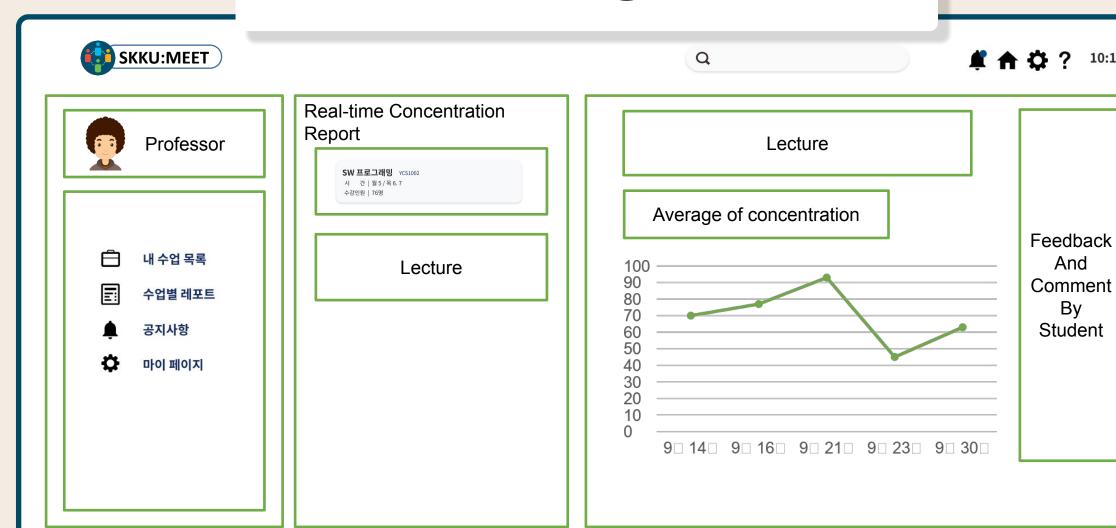
10:19 AM

And

By

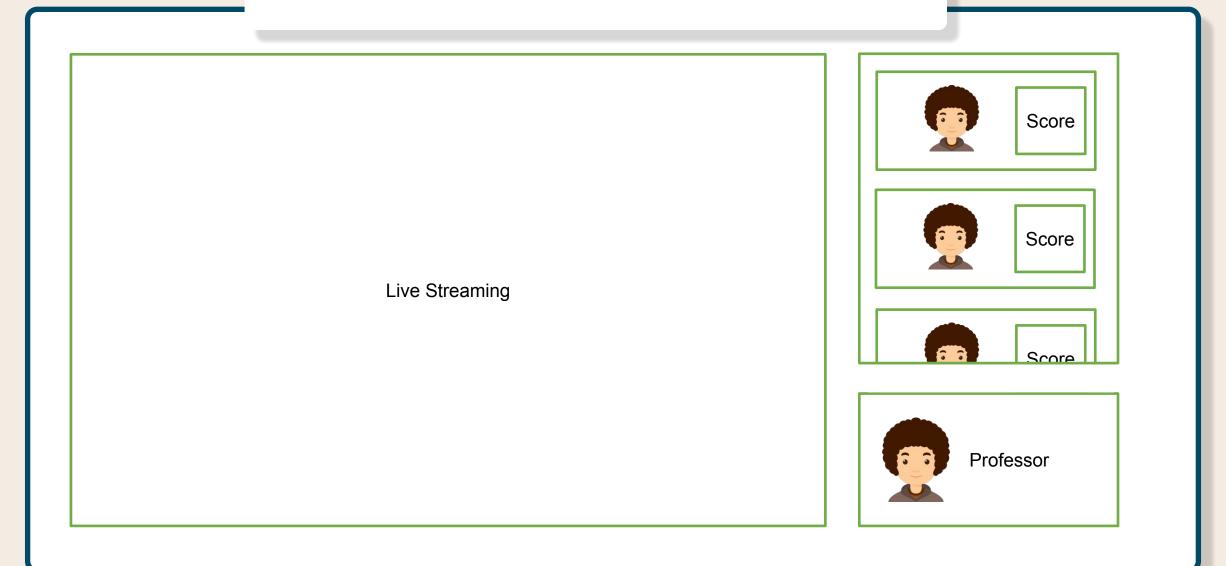
Student

UI/Ux design (Class Report)





UI/Ux design_(Streaming)





04. DEVELOPMENT



Structure

Frontend Backend

Amazon AWS

Web Service

Database

Concentration Check
Algorithm



Frontend



Java Server pages standard technology for dynamic, data-driven pages



php
general-purpose scripting language



standard markup language



Backend



Amazon aws

Amazon cloud for web services



Backend database systems



Concentration

check
via real-time survey & eye tracking



05. EFFECT & BENEFITS



Current System

기술경영개론_ERC2008_43(이지훈) 2021년 1학기

안전교육_SFE7211_I1(최의경)

운영체제_SWE3004_43(엄영익) 2021년 1학기

Computer Programming for Engineers_GEDT018_41(등국홍) 2021년 1학기

Global Englishes_GEDG034_41(저스틴바 라스)

2021년 1학기

Introduction to Database_SWE3003_41(0|

2021년 1학기

Introduction to Software Engineering_SWE3002_41(이은석)

2021년 1학기

Mobile App Programming Lab_SWE3047_41(염익준) 2021년 1학기



Regarding class hours and progress method : webex (access number: 578 343 115) ତାଳ୍ୟ (ILEE EUNSEOK)

모든 섹션

Dear students,

This class, conducted by online flipped learning, is held in the form of "online storage class" + "online real-time streaming class" until covid-19 is stabilized.

Take an online preclass in advance and solve Q&A questions. Please discuss the questions within the team in advance in this process.

TAs will maybe check the team activities.

(Before team formation, each person should solve the problem by oneself)

Online real-time streaming class is conducted through webex (access number: 578 343 115).

Classes run from 3:00 for 75 minutes.

이 공지사항에는 댓글을 작성할 수 없습니다.



미팅 참여하기 ①

미팅 정보 입력

Asynchronized icampus and webEx

Need to manage icampus and webEx separately

Need meeting room number for each classes



Improved System





기술경영개론_ERC2008_43(이지훈) 2021년 1학기

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2021년 1학기

Introduction to Database_SWE3003_41(0

(3 전)

2021년 1학기

2021년 1학기

Introduction to Software Engineering_SWE3002_41(이은석)

Mobile App Programming Lab_SWE3047_41(염익준)

미팅 참여하기 ①

미팅 참여하기 ①

미팅 참여하기 ①

미팅 참여하기 ①

Manage synchronized icampus and webEx together

Provide quiz and class references directly

Easily access to live class







It is difficult to interrupt class and ask question



Cannot check students' understanding of class



Webcam is the only way to check students



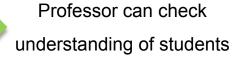
It is not enough to check concentration of students



Improved System



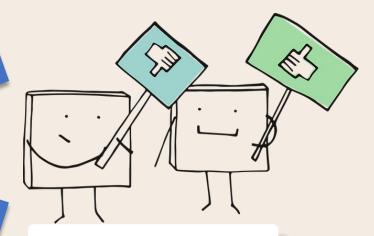
Understanding of students is measured by survey





Concentration of students is measured in real time

Professor can check concentration of students



Professor can get feedback of his class



THANK YOU:)