
Project Proposal – Team1

Project Highlight : Highlighting SKKU online campus life

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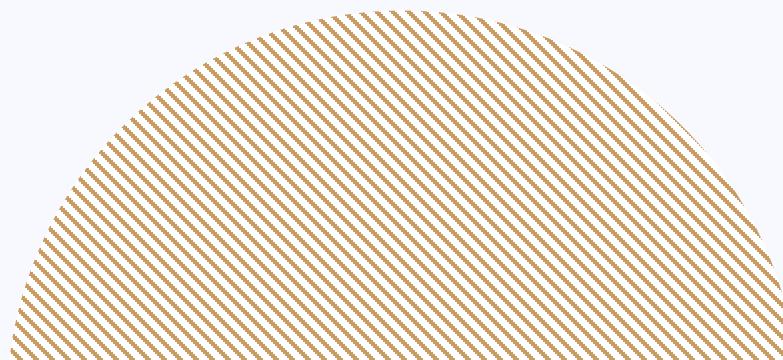


01



Outline

Background & Needs



01 Outline

New era caused by COVID-19



Changing Trends in Korea

‘Untact’ is a trend across industries where brands utilize technology to reduce person-to-person contact.

It is a focus area for economic growth.

A one step further from ‘Untact’, with the connection online, now is the era of ‘Ontact’.

“As COVID-19 impacts every aspect of our work and life, we have seen 2 years' worth of digital transformation in two months.”

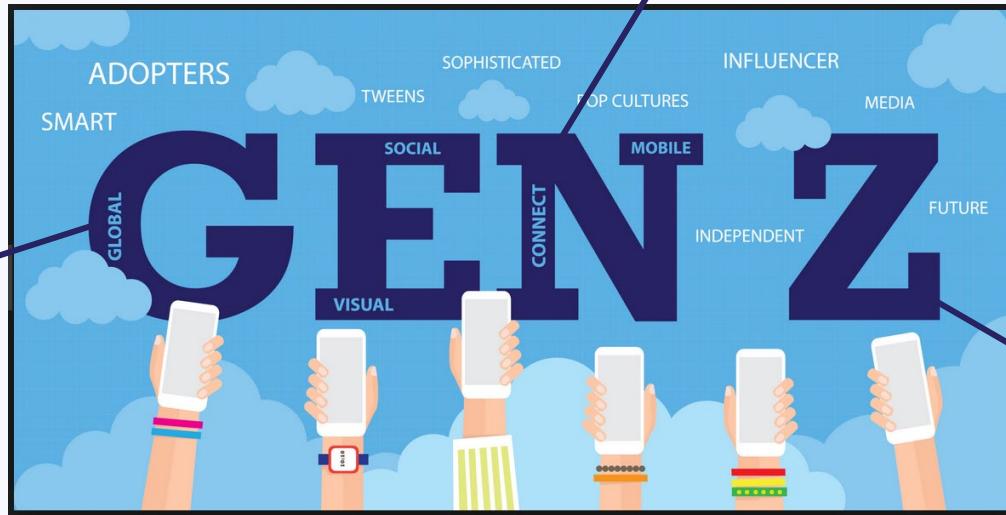
- Satya Nadella (Microsoft CEO) -
MS in-house speech(2020.4.30.)

Background

Because of COVID-19, form for socialization has changed. Communication in face-to-face had been limited, so new method of marketing and communication appear. Untact is neologism between Un + Contact. New method of contacting is surging up. South Korea is “making a national push to reshape its economy” around the concept by prioritizing remote work and education software, as well as further investment. Furthermore, Korea, which values individual harmony, has created the concept of long-distance face-to-face communication called “Ontact.”

01 Outline

Generation Z's College life



#MySider (My + side + er)

Pursue one's personality, select the desired community. Method is optional element too.

#Impatient

Gen Z's time is important. They hate time leaking.
They need strong, short abridgement

#Just a little dream
who wants to do what they want in a tough society.

Background

Generation Z is the mid-to-late 1990s as starting birth years and the early 2010s as ending birth years. As the first social generation to have grown up with access to the Internet and portable digital technology from a young age, members of Generation Z have been dubbed "digital natives". Generation which grow in flood of information, so they have unique perspective. Now days is generation Z's collage time. They are showing an unheard-of track record.

01 Outline

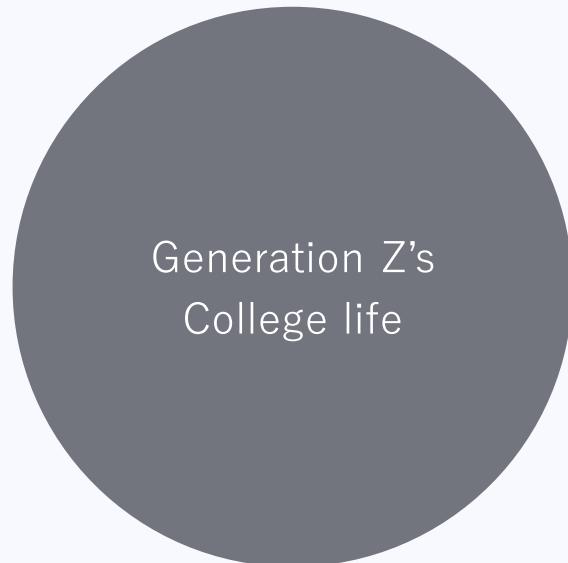
Changing Era, Changing College Culture

Pre – Corona	Post - Corona
Inter-communicative course	One-way passing course
Inter-communicative course	Lonely and solitude studying
Small talk with friends during lecture	-
-	Too much information alarm
Sharing lecture note	-
Communication among students	-
Handing over textbooks	-
-	Free from restrictions on distance

01 Outline —

The Education environment should change

: The educational environment should also be changed in line with the changing society.



PROJECT MOTIVATION

Knowledge is spreading more and more with synergy effect in the active exchange and communication between different fields and areas.

The essence of knowledge is out of consideration in current era. New platform adapted in post-corona is needed to accept the advantages of pre-corona and to eradicate the disadvantages of post-corona.

01 Outline —

How about the Customer?

Q&A Section of I-campus is not fully activated

“We are worried about asking to professor and tutors. TT”

“I-campus Q&A section is uncomfortable to use for tutors”

It is hard to ask question

“I want to ask only small question, but it is too onerous to stop professor’s presentation…”

“I have curious thing but there is no friend I listing together… I want some classmate.”

Too much and too indiscreet push alarm

“Student sometimes miss critical announcement”

“We cannot catch needed alarm at time due to indiscreet alarms.”

No campus life, No communication

“I can’t meet junior! I want to know newbies and help but it is impossible now day.”

“I don’t know anything… I wish senior for ask question easily”

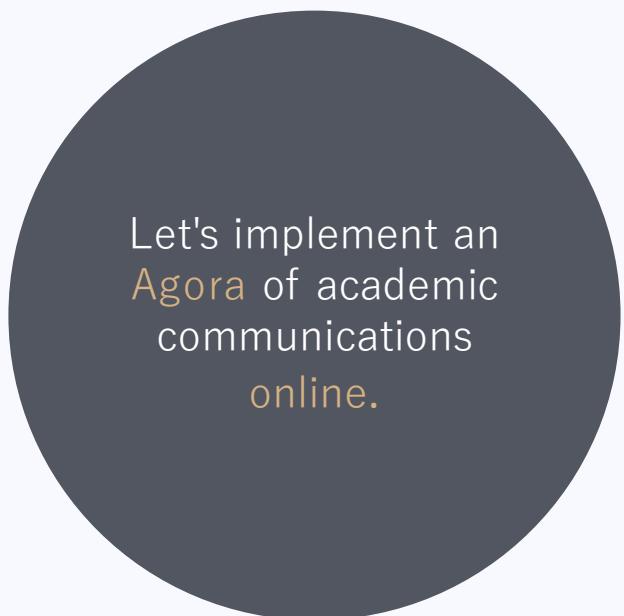


01 Outline

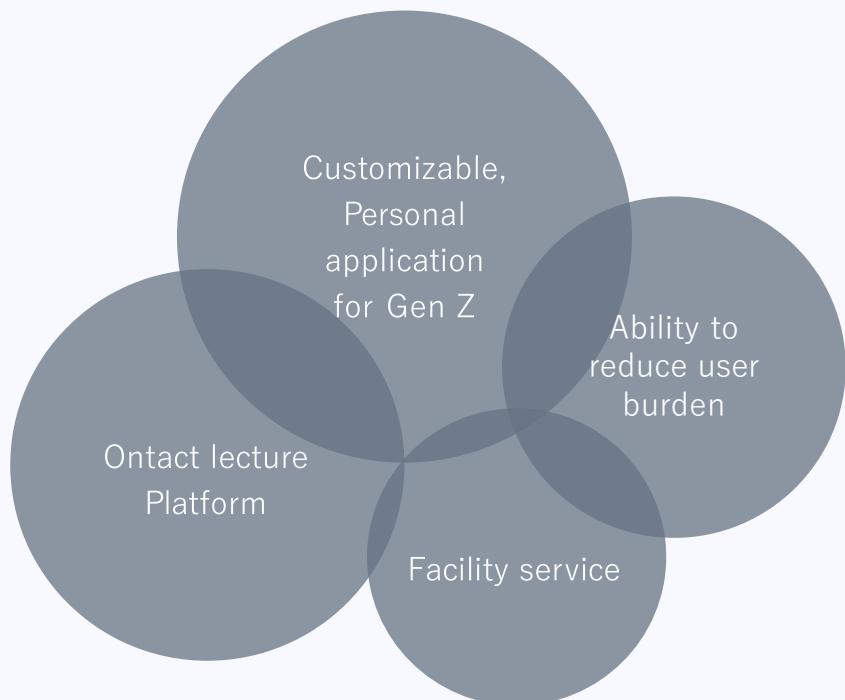
Then, how to catch the customer needs?

: the construction of Ontact + Customizable lecture platform

Motivation of project



Main concept of project



Customizable Ontact platform



The existing platform only supports the lecture, has useless push alarm and impractical functionalities.

So, we built a project: Highlight from the concept “Ontact” and “Customizable” to handle those problem.

At the end of deployment, we can provide Customizable, Convenient, Ontact (CCO) platform to student.

01 Outline

Is the **Ontact + Customizable service** really needed?

: Gen Z fell frustration at current system

Additional academic activities

“Learning” does not end only after lecture.
There are lots of activities
outside the lecture,
such as debating, team project,
sharing lecture note, or just group studying.

Limitations of current system.

Gen Z use SNS for replacement.
There is no other choice.
SNS's limitation is specific.
Since student **cannot meet each other**,
Someone even **cannot find team itself**
Team communication for assignment is very hard.
because he/she take class alone!
Everyone is not super Extrovert!!

Insufficient Functionalities

Gen Z's need is different each.
Heuristic from past is insufficient to Gen Z
To satisfy every Gen Z
we need customizable application

Students need
more efficient contact tools.

Official Network managed by school
can facilitate active study on team

Customizable application
for each individuals

01 Outline —

34555* Students, 34555 Applications

: User customize own I-campus, that is, **Highlight** !

*Sungkyunkwan University has 34555 registered students in 2021.



Existing I-campus

Indiscreet alarm

- Lecture, assignment, announcement etc. are indiscreetly given to students with poor readability
- Sometimes, lecture's uploaded alarm is pushed, even though the students cannot access!

Uncomfortable Fixed UI

- Category of assignments is mixed complexly. Students cannot pick out undone assignments from them.

The new I-campus

Choosing functionalities

- Students can choose what functionality they want.
ex. 3 day /1 day alarm before deadline of assignment
30 min before lecture's formal time

The real UI, User's Interface

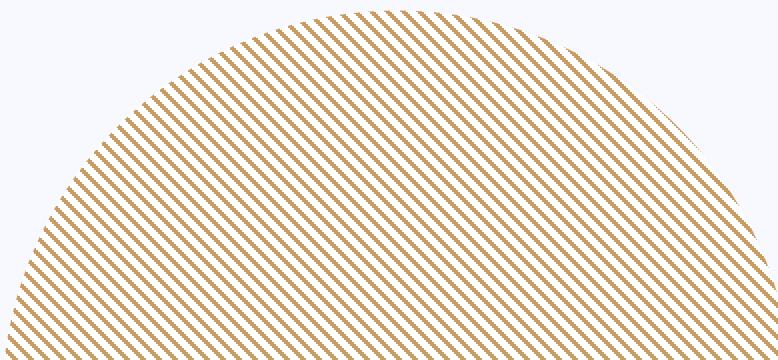
- A user can make their own UI
ex. "In dashboard, I want to see today's lecture only!"

02



Goals & Methods

What and How



02 Goals & Methods

Goals – Main objectives



Project: Highlight

Connecting Students with Online Platform in Ontact Era

Providing a place of communication for the groups in campus

Customized to Every User

To satisfy Gen Z, flexible and customizable application



02 Goals & Methods

Goals – Functional details

1. Comfortable connection

Incarnate public no burden platform

2. Design Own Function

among a lot of information, select and set-up desiring function

3. Ontact

Can communicate variously in online



02 Goals & Methods —

Goals - System details

Provide
Workspace

Personalized
Notification

Lecture Video
Clipping

Lecture Notes
Sharing Platform

Textbook
Subscription

Provide Workspace

Provide Cloud Storage

Text chat for Groups

Multi-channel voice meeting

Personalized Notification

User-friendly Block Programming

Lecture Video Clipping

Online Video clip Counter

Lecture Notes Sharing

Traceable Data sharing Platform

Textbook Subscription

e-book Subscription Intermediary



Flutter

GitHub



Jenkins



Firebase

02 Goals & Methods

Goals - Functional details



Provide Cloud Storage

It aims to provide cloud storage that enables real-time document collaboration.

Text or Voice chat for Groups

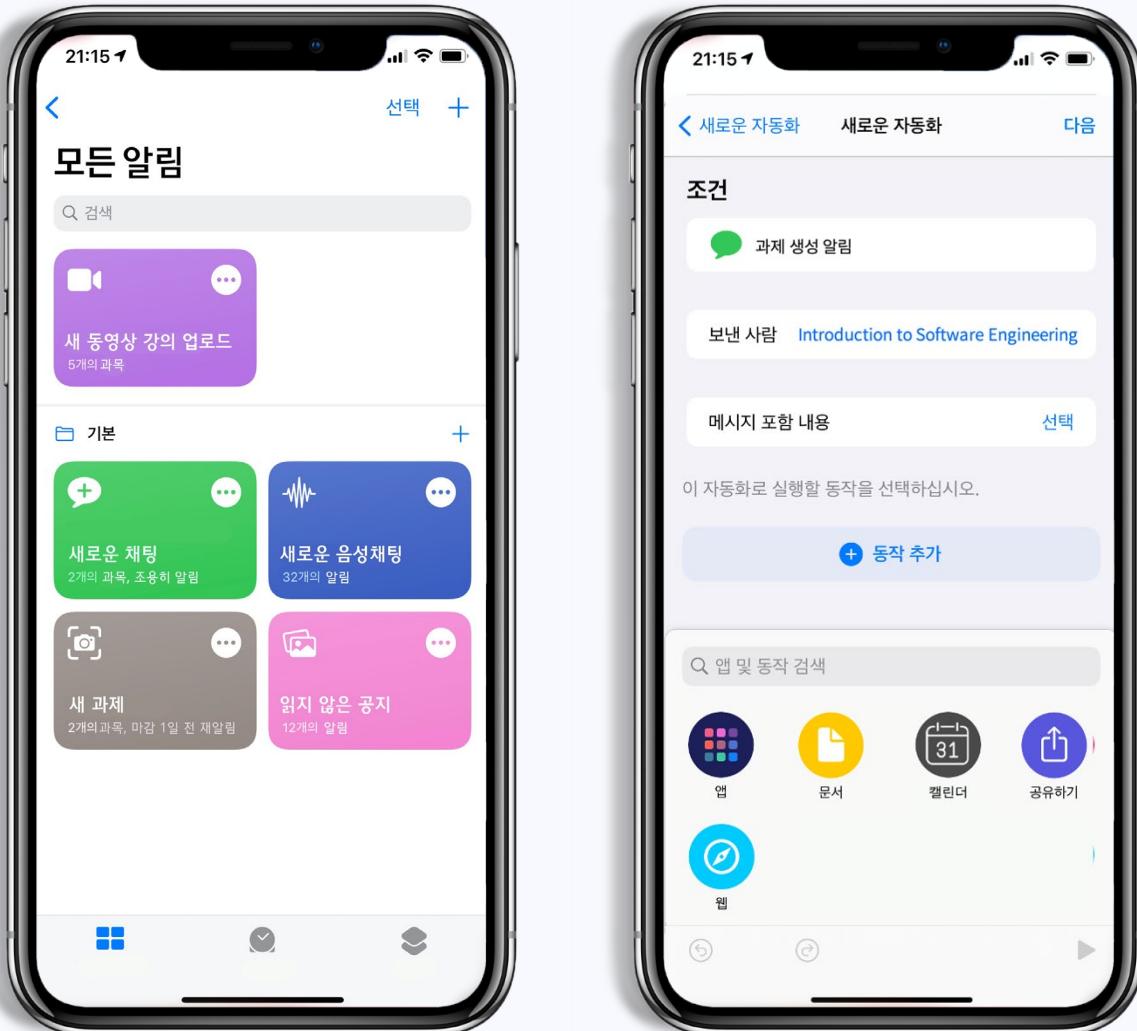
It aims to provide a group discussion discussion in the form of a chatting, not posting and commenting

Sub Voice Channel

Not bothering class, flexible communication voice channel. Students could toss around and improve own knowledge. A comfortable conversation is possible.

02 Goals & Methods

Goals - Functional details

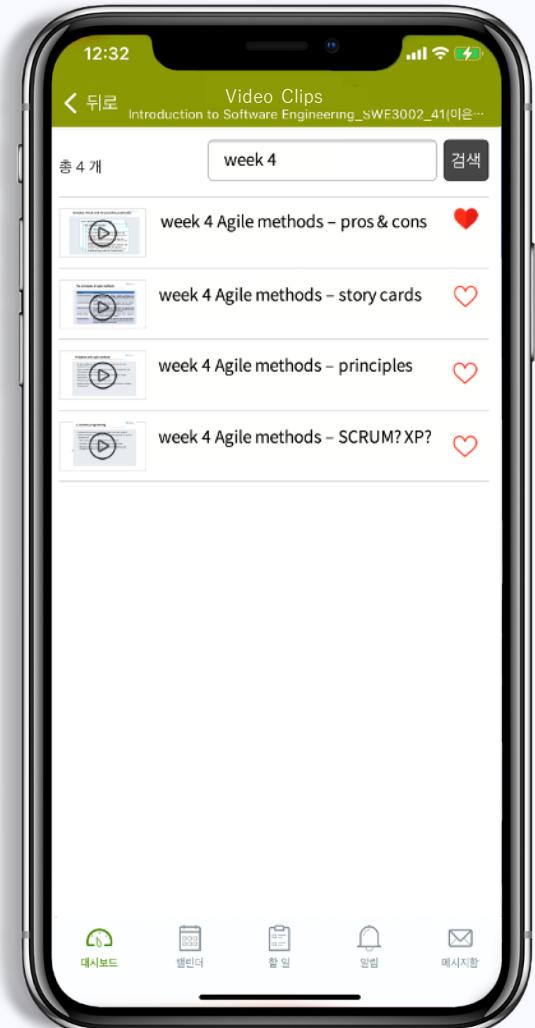


Block Programming

It aims to provide block programming capabilities to help users set the notification function as desired.

02 Goals & Methods —

Goals - Functional details

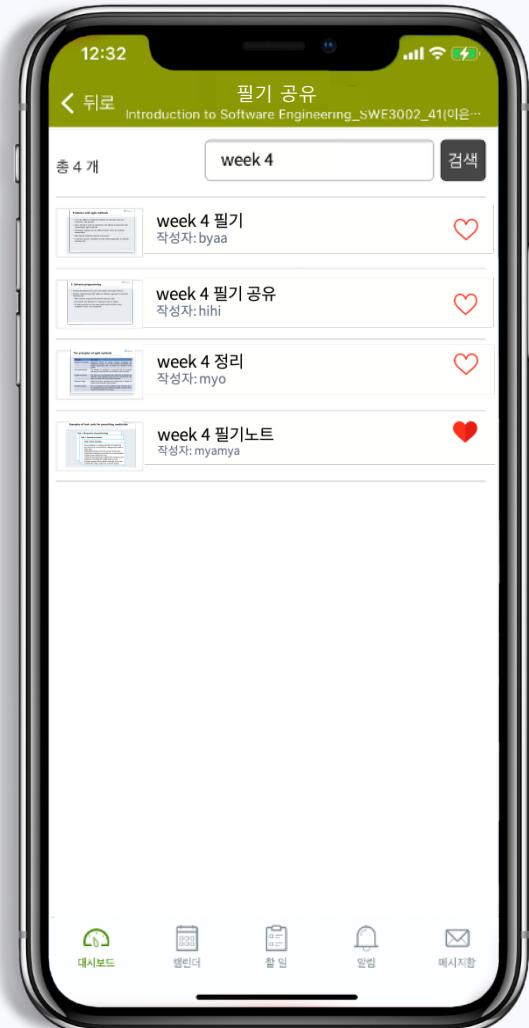


Online Video clip Counter

Mentee or student could pick a clip on lecture video, such as highlight video. Clip could shared within the copyright holder's permission

02 Goals & Methods

Goals - Functional details

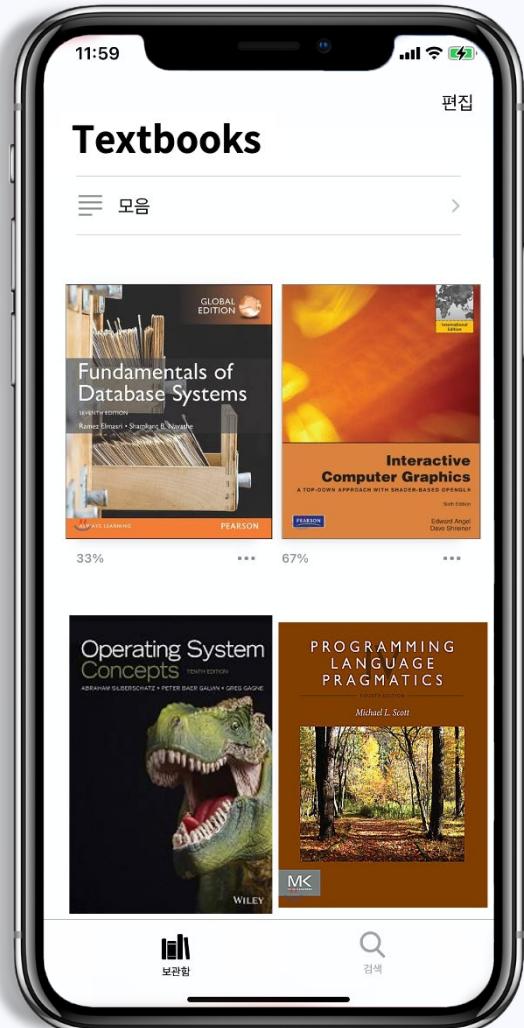


Traceable Data sharing Platform

Such as lecture note, student can share their study footprints, know-how for class, realization of knowledge.

02 Goals & Methods —

Goals - Functional details



e-book Subscription Intermediary

Cheap and convenience system to get major books.
Could use every major book by subscribing service. It will reduce payment for book.

02 Goals & Methods —

Methods – Open sources

Scratch Mods

Scratch

For block programming service



OpenShot

OpenShot Studios, LLC

For video clipping service



OpenShot
Video Editor

Agora.io

Agora

For voice chatting service



02 Goals & Methods —

Methods - Frontend tools

Adobe Illustrator

Adobe Inc.

For designing Icons & Background Images.



Adobe Xd

Adobe Inc.

For designing UI/UX & Interface Structure



Flutter

Google

Cross-platform environment



02 Goals & Methods —

Methods - Backend tools

GitHub

GitHub Inc.

For Open sources & collaboration

GitHub

Jenkins

MIT License

To design UI/UX & Interface Structure



Jenkins

Firebase

Google

Cross-platform environment



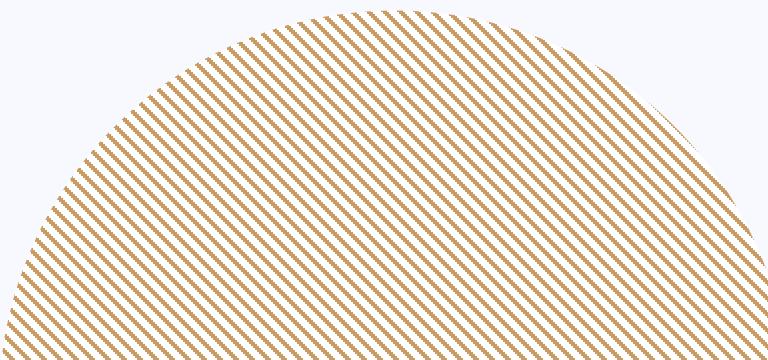
Firebase

03



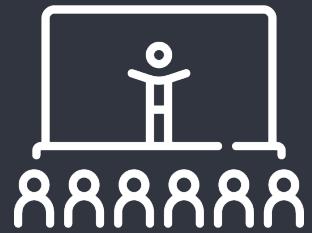
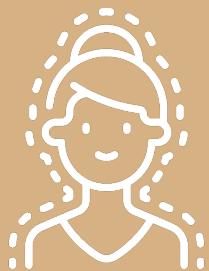
Benefit & Effect

The Resulting Change



03 Benefit & Effect —

Overview



Contact each other

regardless of COVID.

Efficient studying

Find information and answer questions
in our new platform.

Communication

between students

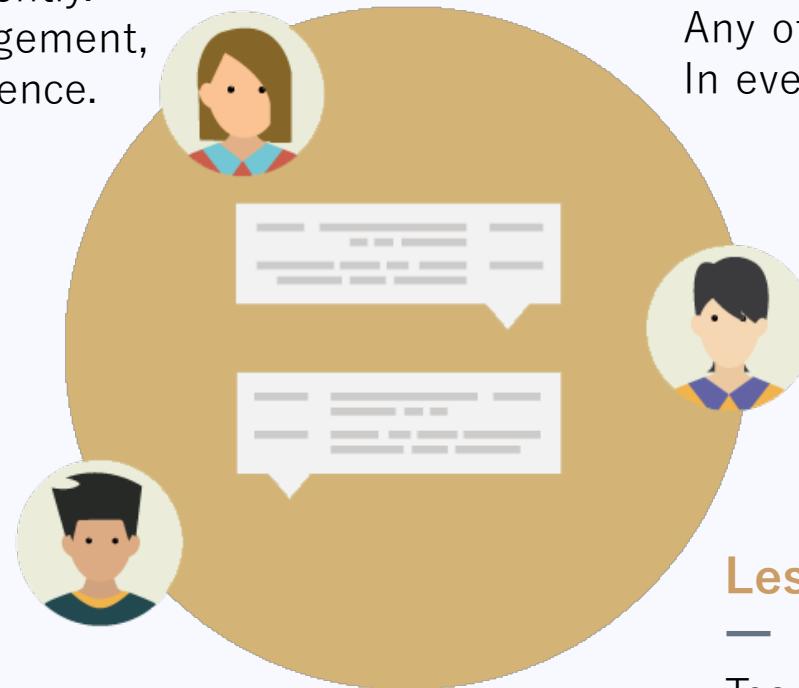
03 Benefit & Effect

Teams in Ontact

Students can contact properly even when COVID-19 emerges.

Team Project

Teammates can meet conveniently.
More efficient resource management,
More convenient team conference.

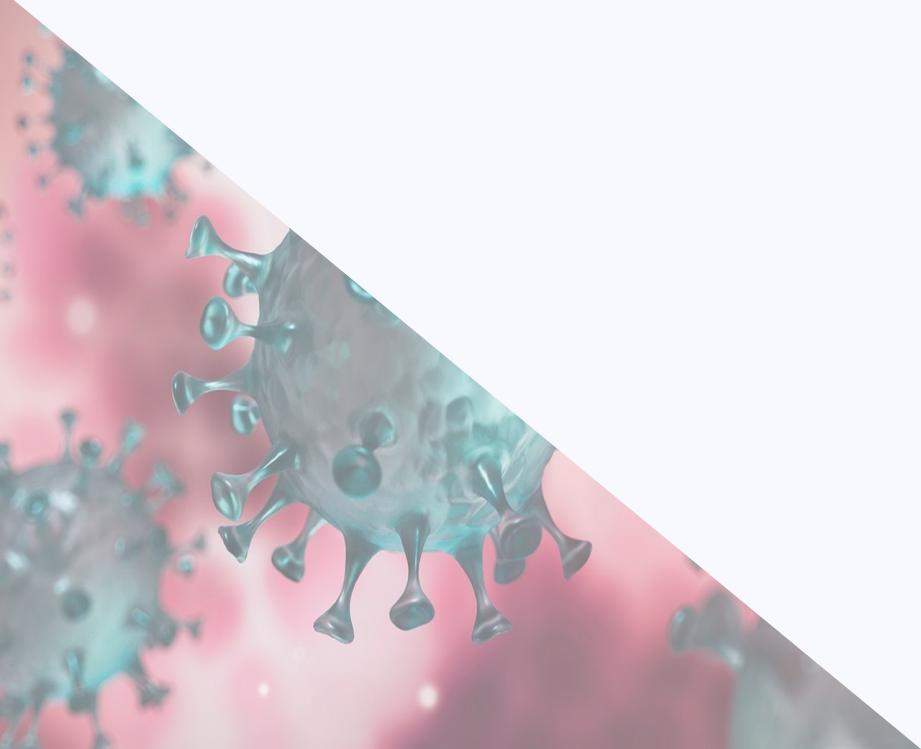


Ontact

Teams can meet without any contact.
Any other program install not required.
In everywhere, team can meet in online.

Less pressure

Teams can communicate together in class in less pressure. Sub channel will include vital power in class.



03 Benefit & Effect

Beyond Lecture

Students can exchange their experience. Question and answer themselves. Flipped class can have more efficient effects.



Customizable App

Most of functions, such as alarm, can be customized easier. Gen Z will easily manage their chat rooms, alarms, projects and lectures. Seeing what we only want will make comfortable days. This system is fit perfectly with Gen Z.



Brand New Platform

Only teachers could change most of boards, but everything change. Students can discuss themselves easily. They always change their status for checking and managing their study process. Not only teachers, but students can also check their study with their own basis.

03 Benefit & Effect

More Communication

Make communication between fellows in same lecture, same colleges.

With COVID

Due to canceled events, freshman cannot meet their fellows.
Meeting each other will be much easier.

AFTER COVID

Our service can new square for meet.
Students will feel much belonging with their school and groups,
with our new shared platform.

Featured



Can exchange notes
in lecture boards



Can buy somethings
from other students



Make boards with
any functions!

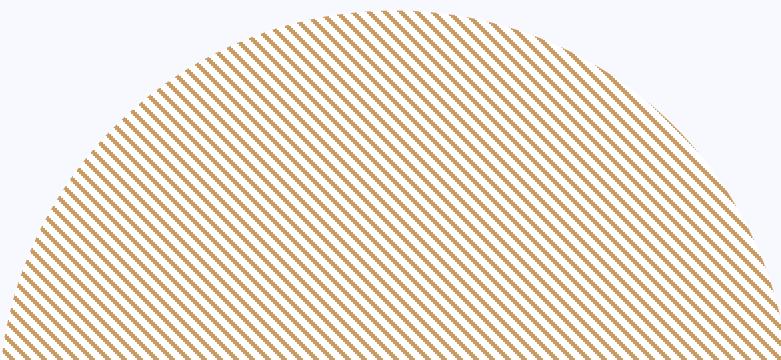


04



Development Plan

WBS & Schedule



04 Development plan —

Work Breakdown Structure

Plan

Teaming

Problem & Goal Definition

Schedule & Cost Estimation

Plan Review

Requirements

Requirements Definition

Requirements Specification

Design

Development Manual

System Architecture Design

Interface Architecture Design

Implementation & Test

Programming / DB Construction

Test Plan

Continuous Integration

Unit test

Maintenance

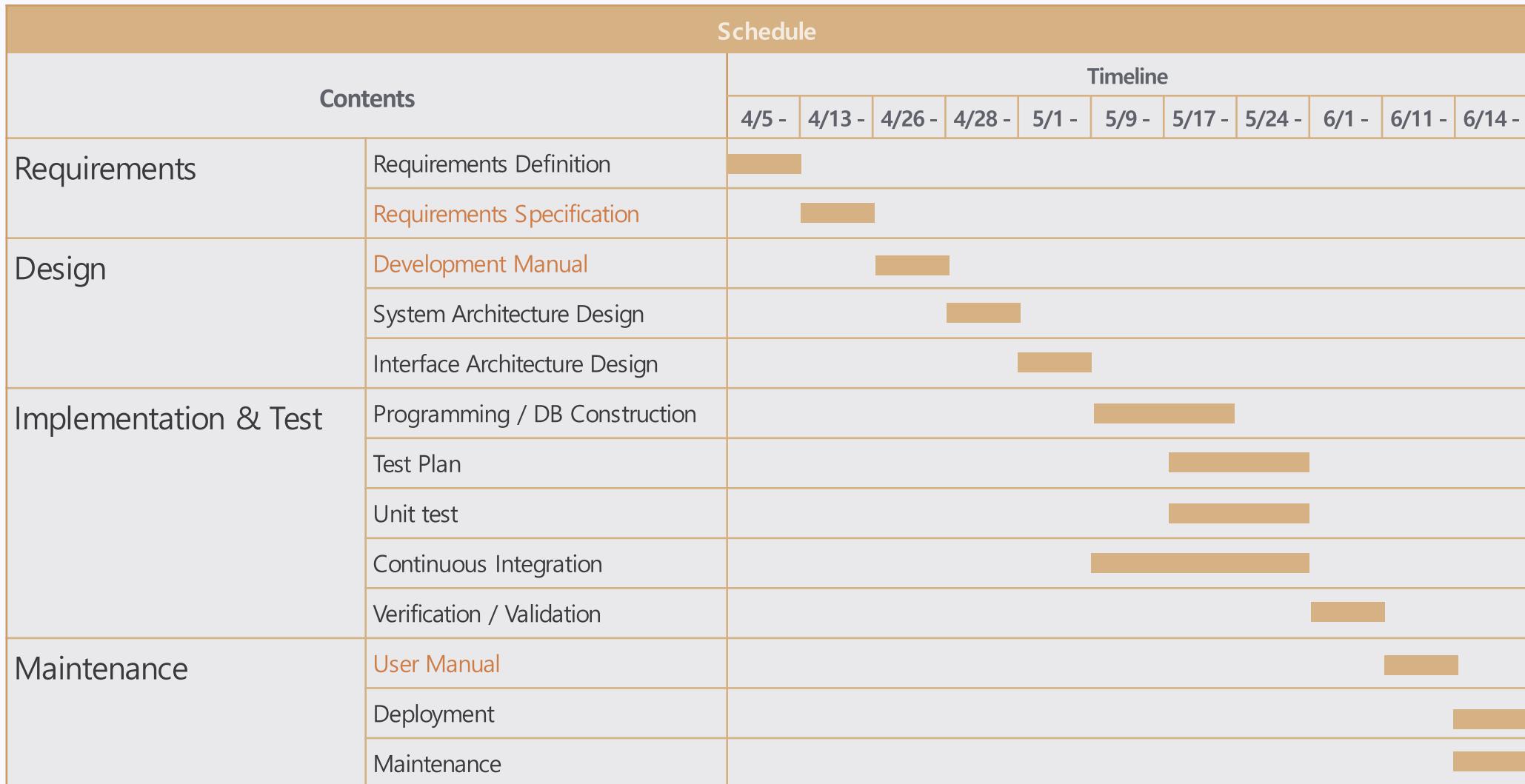
User Manual

Deployment

Maintenance

04 Development plan

Gant Chart



THANK YOU