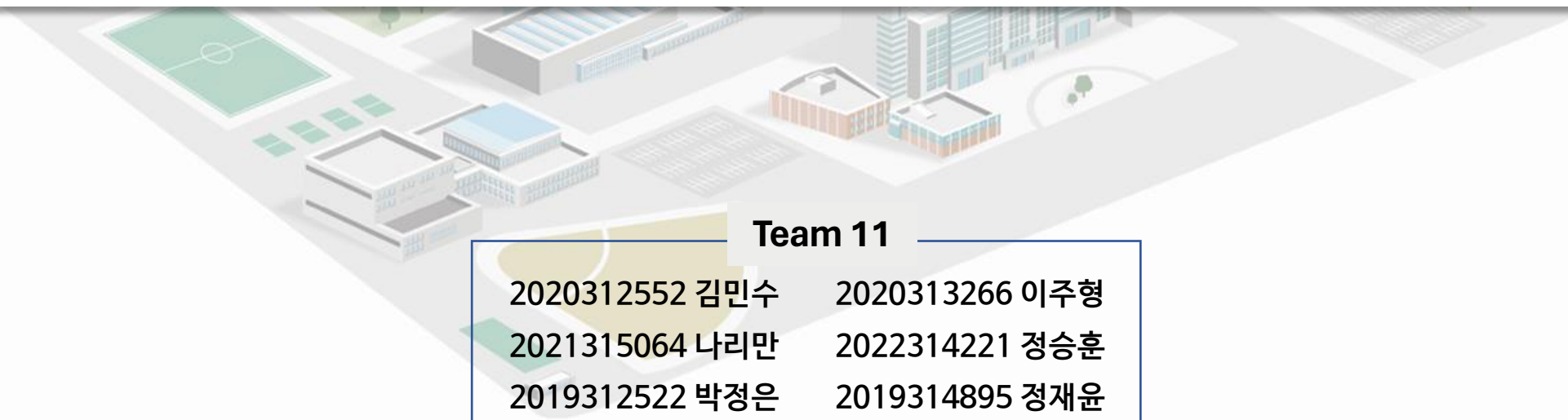




SKKU In-Campus Navigation

: A Solution for Efficient Building and Classroom Location



Team 11

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- 1.1 background
- 1.2 market status

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Goals & Method

- 2.1 goals
- 2.2 application overview
- 2.3 method

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Plan

- 3.1 team role
- 3.2 implement schedule

4

Expected Effect

Section 1

Overview

- Background
- Market status

01_OVERVIEW

- Background

Where is **building 25??**



01_OVERVIEW

- Background

Where is **building 25??**



01_OVERVIEW

- Background

Then,
Where is **25314 ??**



01_OVERVIEW


- Background

Then,
Where is **25314** ??



01_OVERVIEW


- Background


 **익명**
03/08 11:26

고명북 강의실 어디예요

50관이라고 되어있는데 왜 50이 없지?? 50이면 무슨건물이에요..?

👍 0 💬 2 ⭐ 0

 공감

 스크랩

 새내기게시판
성균관대


 **익명**
03/04 14:15

62603이면 어느강의실인건지

분명 뒤쪽이 강의실번호고 건물번호는 따로있다들었는데 아직 헷갈려요

👍 0 💬 5 ⭐ 0

 공감

 스크랩

01_OVERVIEW

- Background



익명

03/08 11:26

고명북 강의실 어디예요

50관이라고 되어있는데 왜 50이 아닌지?? 50이면

**SKKU students facing difficulties in finding their classrooms
at the start of a new semester.**

공감

스크랩



03/04 14:15

62603이면 어느강의실인건지

분명 뒤쪽이 강의실번호고 건물번호는 따로있다들었는데
아직 헷갈려요

👍 0 💬 5 ⭐ 0

공감

스크랩

01_OVERVIEW

- Background



성균관대학교-Sungkyunkwan University

2016년 2월 22일 · 서울 · 🌐

[인사캠/자과캠 CAMPUS MAP]

곧 다가오는 개강! 건물 번호와 강의실 위치가 헷갈리신다면 첨부한 사진을 참고하세요 ❤️

강의실 번호는 '강의동+층수+강의실번호'로 구성됐으며
를 들어 호암관 1층 6번 강의실의 경우 50106, 국제관 지하2층 15번 강의실의 경우 9B215입니다~

기타 자세한 캠퍼스맵이 보고싶다면!

인사캠>> http://www.skku.edu/new_home/map/sub_tab1.jsp

자과캠>> http://www.skku.edu/new_home/map/sub_tab2.jsp

#성균관대 #캠퍼스맵 #길잃어버리는일은 #NONO



01_OVERVIEW

- Background



성균관대학교-Sungkyunkwan University

2016년 2월 22일 · 서울 · 🌐

[인사캠/자과캠 CAMPUS MAP]

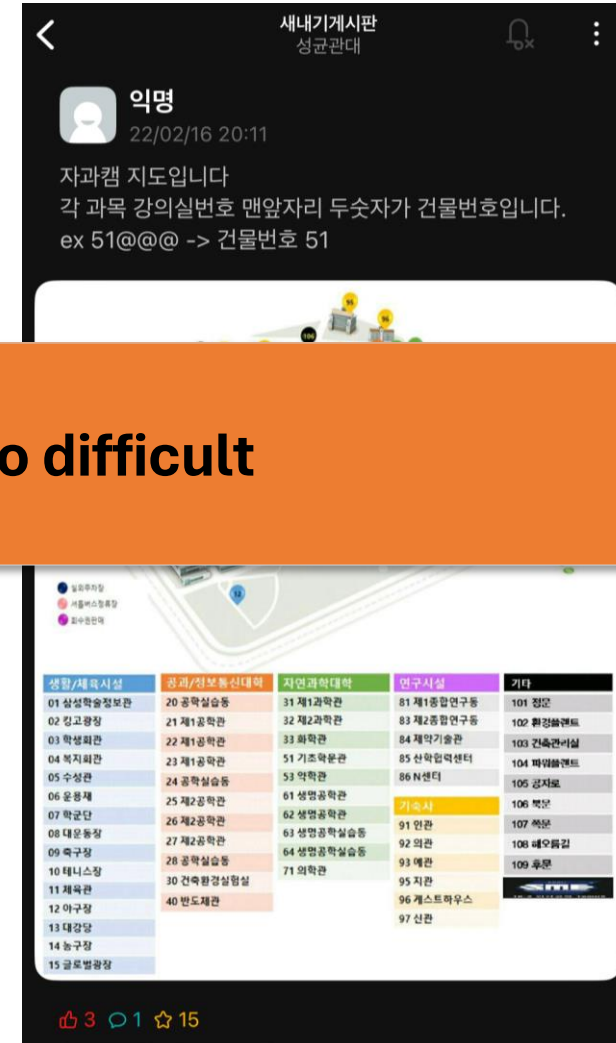
Building Notations are too difficult

기타 자세한 캠퍼스맵이 보고싶다면!

인사캠>> http://www.skku.edu/new_home/map/sub_tab1.jsp

자과캠>> http://www.skku.edu/new_home/map/sub_tab2.jsp

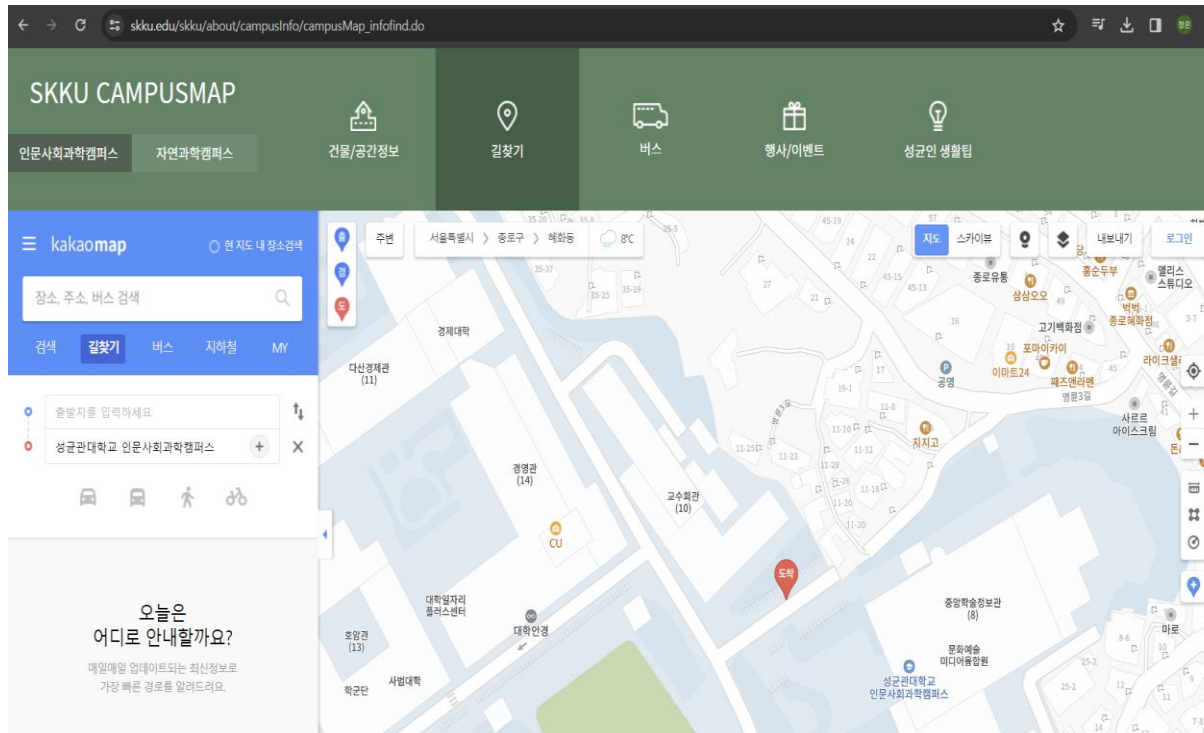
#성균관대 #캠퍼스맵 #길잃어버리는일은 #NONO



01_OVERVIEW

- Market Status

SKKU CAMPUSMAP



Analysis

Can find the exact location?

Well connected until the enter of the building
But, **cannot find the exact location of the classroom**

Well visualized path?

Up to the building is **well marked** with user-friendly features.

01_OVERVIEW

- Market Status

SKK 강의종합안내도



Analysis

Can find the exact location?

Can find the exact location of the classroom, but there is **no way to get there from the current location.**

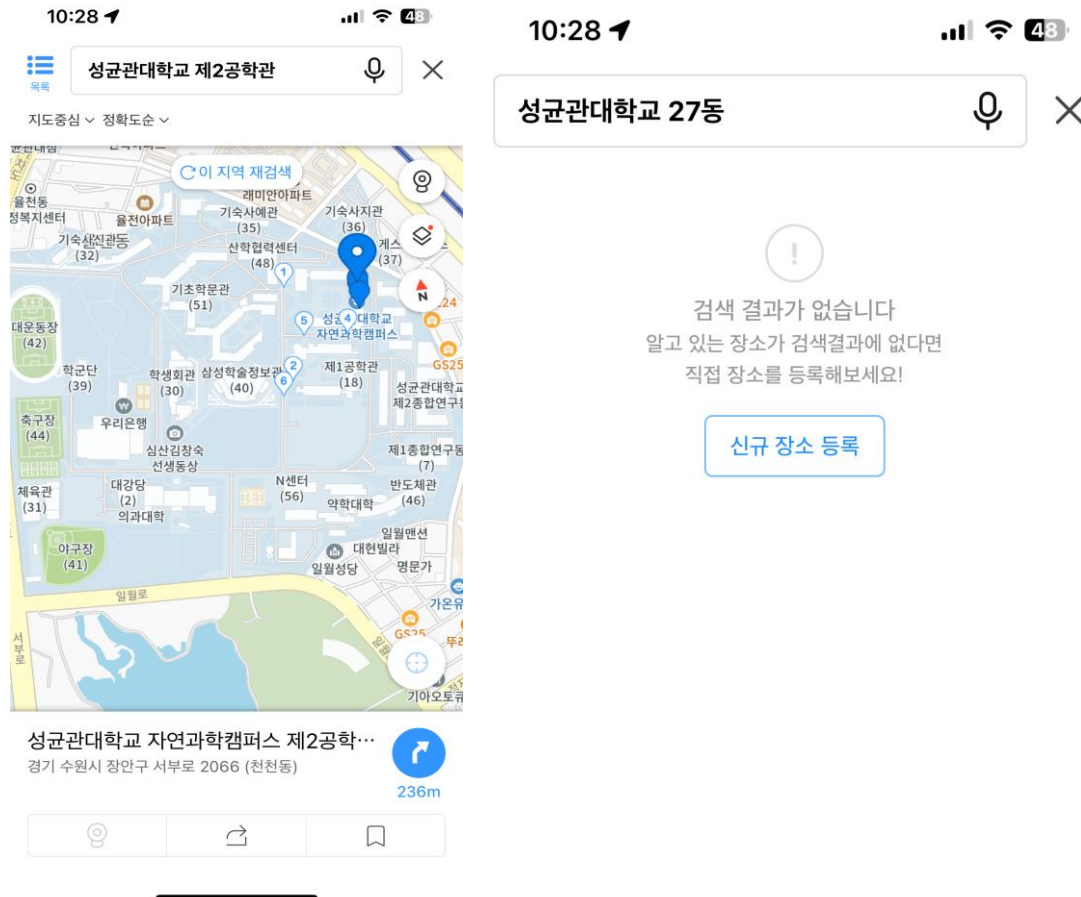
Well visualized path?

But, route is **not visually displayed.**

01_OVERVIEW

- Market Status

Kakao Map



Analysis

Can find the exact location?

Well connected until the enter of the building
But, **cannot find the exact location of the classroom**

No search result when inserted with the building number.

Well visualized path?

Up to the building is **well marked** with user-friendly features.

Section 2

Goals & Method

- Goals
- Application overview
- Methods
 - System Structure
 - Development Tools

02_GOALS & METHOD

- Goals

Help students/visitors move to the classroom they want without wandering around looking for a room number.



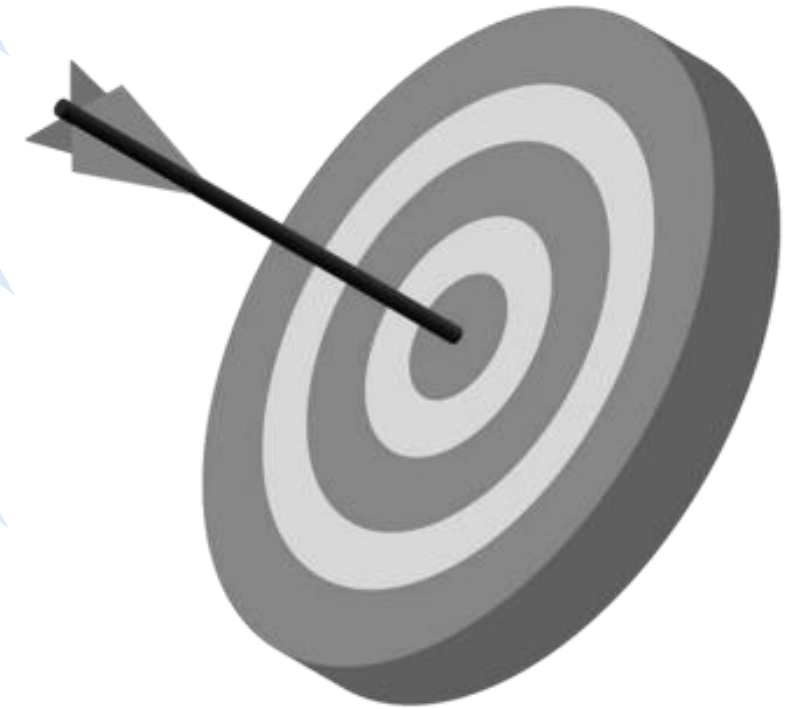
Save time by showing entrances, elevators, and stairs for the shortest route to the classroom in the building.



Don't need to understand complex building layouts simply by following the specified path.



Easy to understand by visualizing the exact route in a user-friendly way.



02_GOALS & METHOD

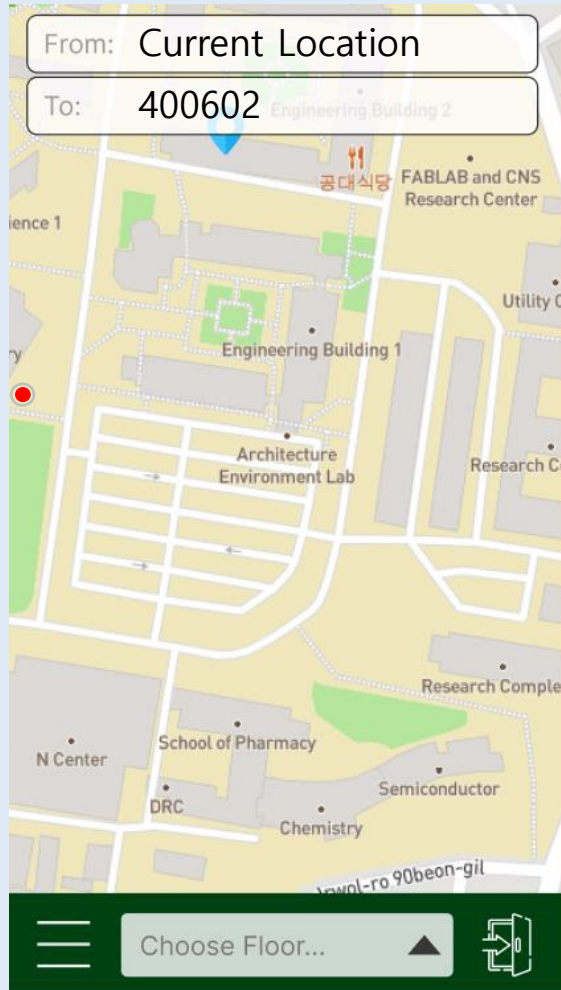
- Application Overview

1

Identifies the current location using GPS.

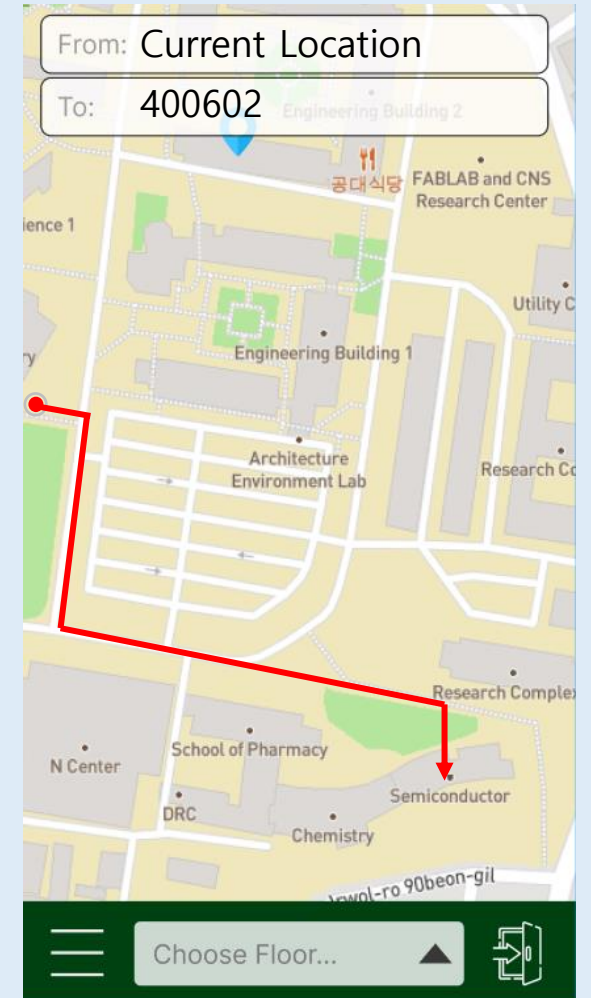
2

Requires input of the classroom number.



3

Guides to the building containing the classroom via an external map.



02_GOALS & METHOD

- Application Overview

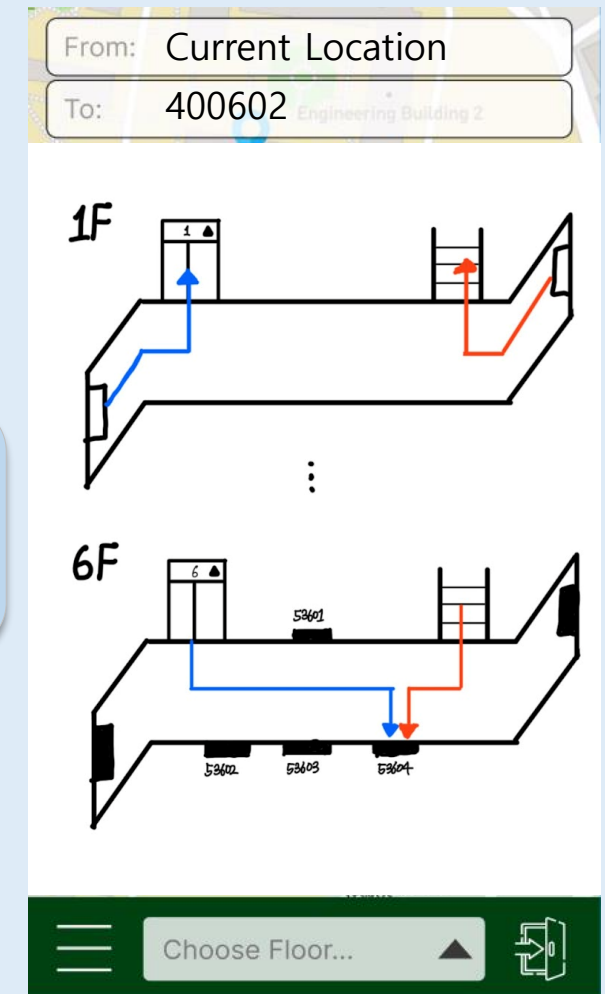
4

Select the "door" button when you arrive at the building



5

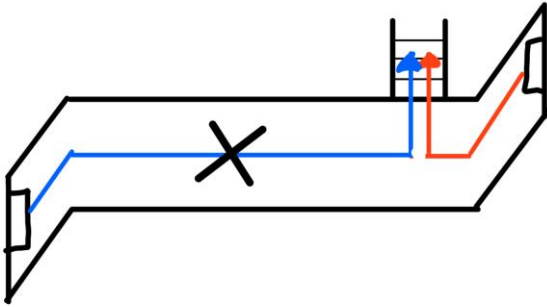
shows the shortest path to the classroom using an internal map.



02_GOALS & METHOD

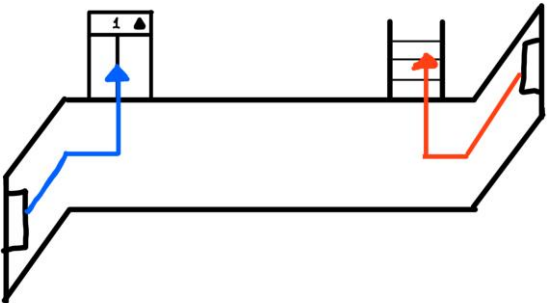
- Application Overview

❖ Which is more efficient?



Provides the “***most efficient***” route

❖ Which is more preferred?



“***Elevators or Stairs***”

User can select their own preferred path

02_GOALS & METHOD

- Method

System structure

System				
Front-end	Back-end			
UI/UX design	Application (Back-end)	Database	Server	Algorithm
Application (Front-end)	Main Functions			
HTML&CSS	Outside navigation	In-building navigation	Favorites	History

02_GOALS & METHOD

- Method

Development Tools

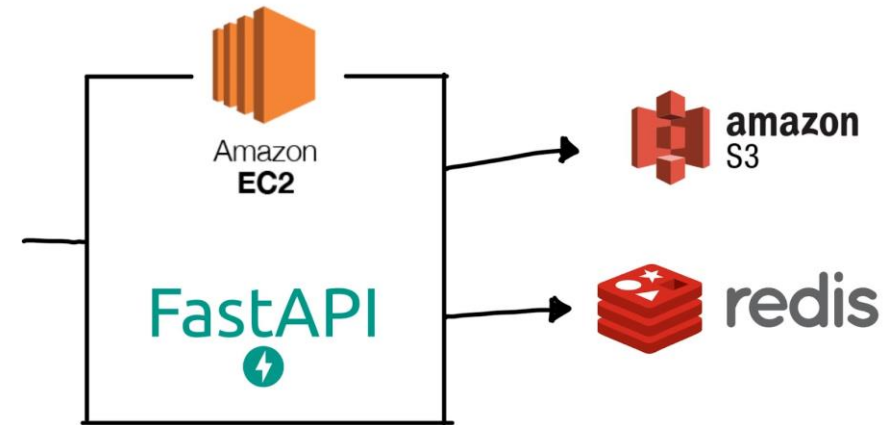
Front-end



android
studio



Back-end



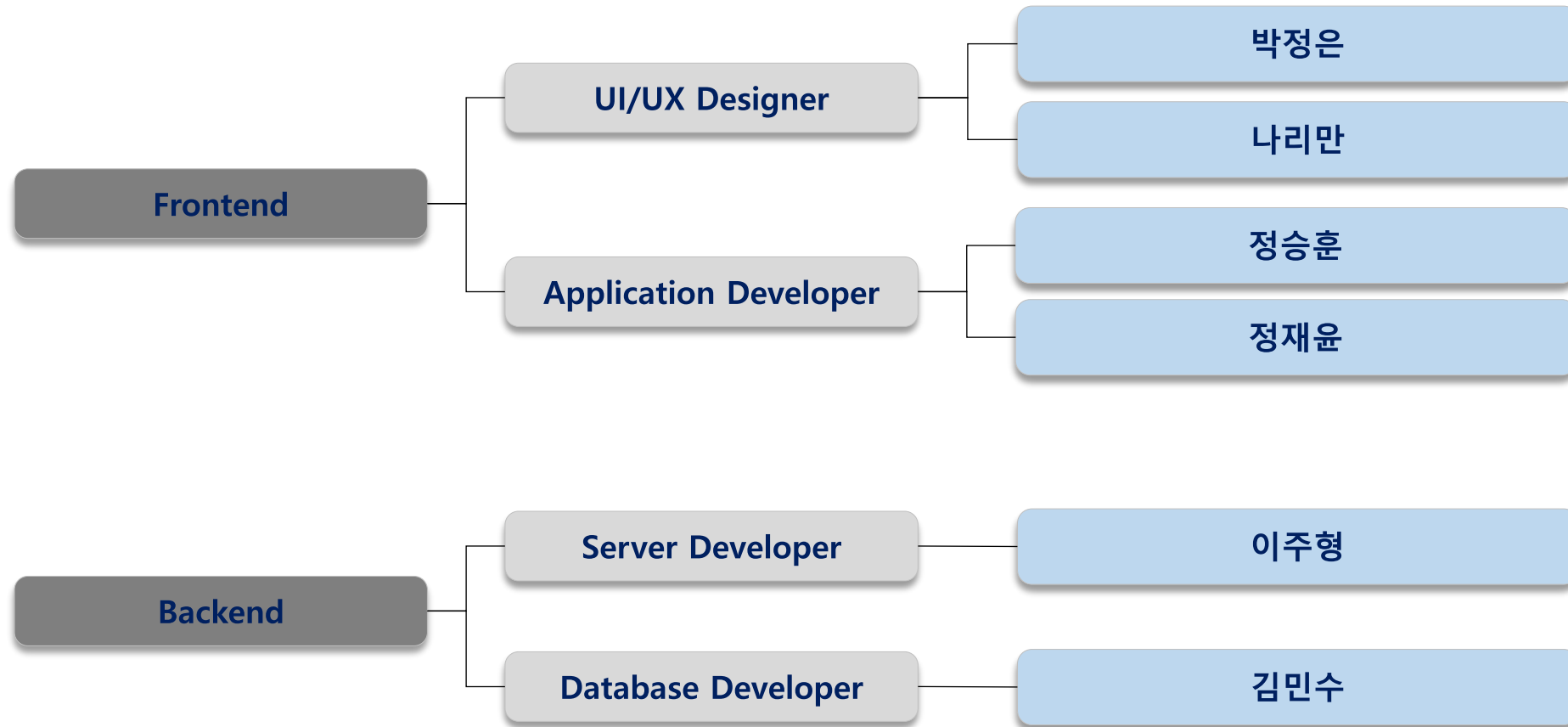
Section 3

Plan

- Team role
- Implementation schedule

03_PLAN

- Team Role



03_PLAN

- Implement Schedule

	Details	Week											
		3	4	5	6	7	8	9	10	11	12	13	14
Planning	Discuss - Plans												
Development	UI/UX Design												
	Data Collection + Make Build map												
	Establish Development Environment												
	Design - Contents												
	Design - Algorithm, Database												
	Implement - server												
	Implement - database												
	Implement - Web publishing												
Test	Unit Test												
	SRS												
	Bug Report												
	Testing												

Section 4

Expected Effect

04_EXPECTED EFFECT

Facilitates orientation and navigation **for new students** during the start of each semester.

Reduces tardiness by helping students locate lecture rooms promptly.

Increases familiarity with campus building layouts among students and visitors.

Saves time and enhances efficiency by guiding users along the shortest routes.

Improves accessibility **for individuals with disabilities** by providing clear navigation routes.

Enhances overall **campus experience**, instilling a sense of security and confidence while navigating the campus.

Optimizes the utilization of campus facilities by making it easy for users to find classrooms and amenities.



THANK YOU