

**TEAM10**



# KINGO-COFFEE

# KINCOFFEE



**Café Realtime Takeout Checking Service**

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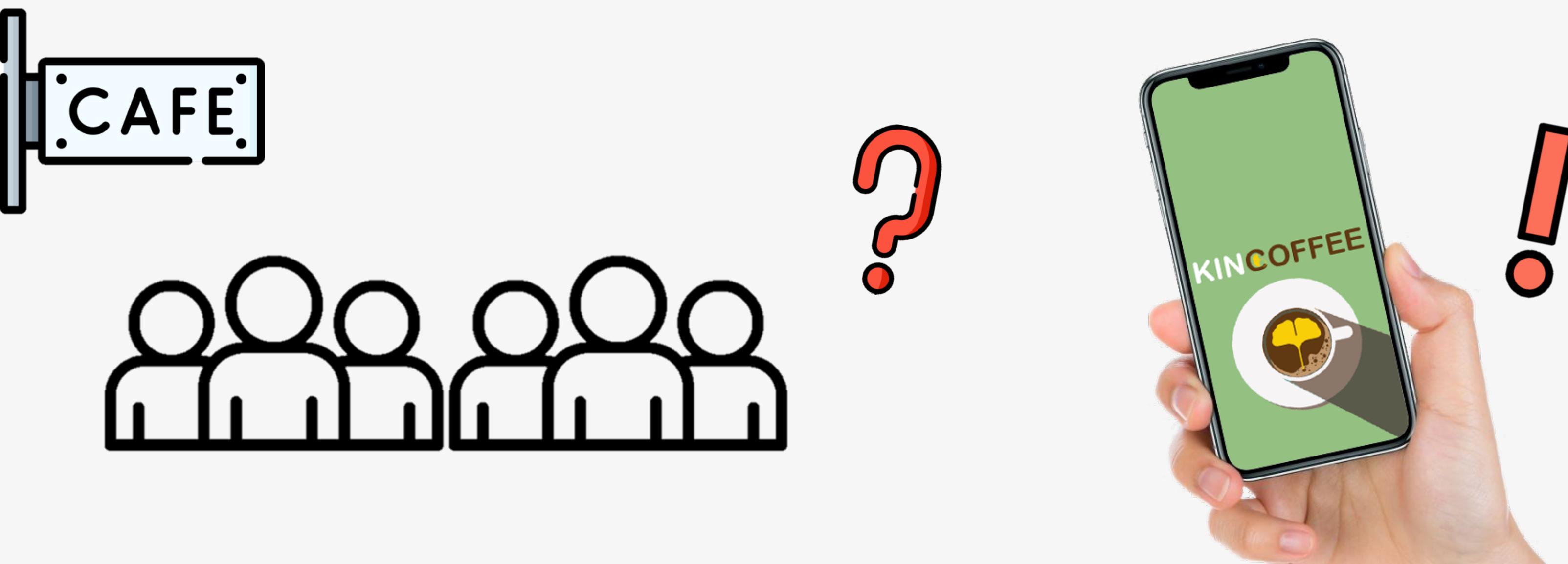
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# 01. Overview

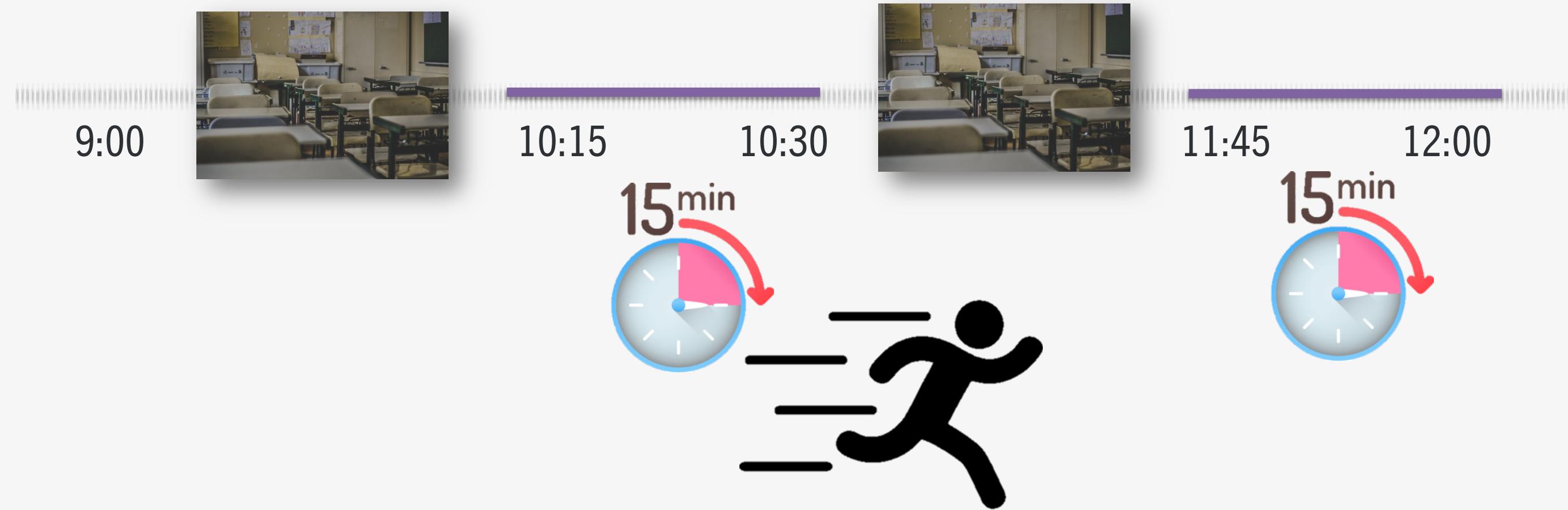
\_Preface and Introduction

## Let's Make a Real-Time Waiting Status Checking and Automatic Payment System in Cafes on Campus!



## 02. Background \_Background

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- Between Classes, we have very short time to break or get some coffee to refresh.
- Many people have experiences of not being able to get a drink because the line was so long, and we don't have much time to wait in lines.
- In this case, the closest café to your current location and how long to wait are very useful information.

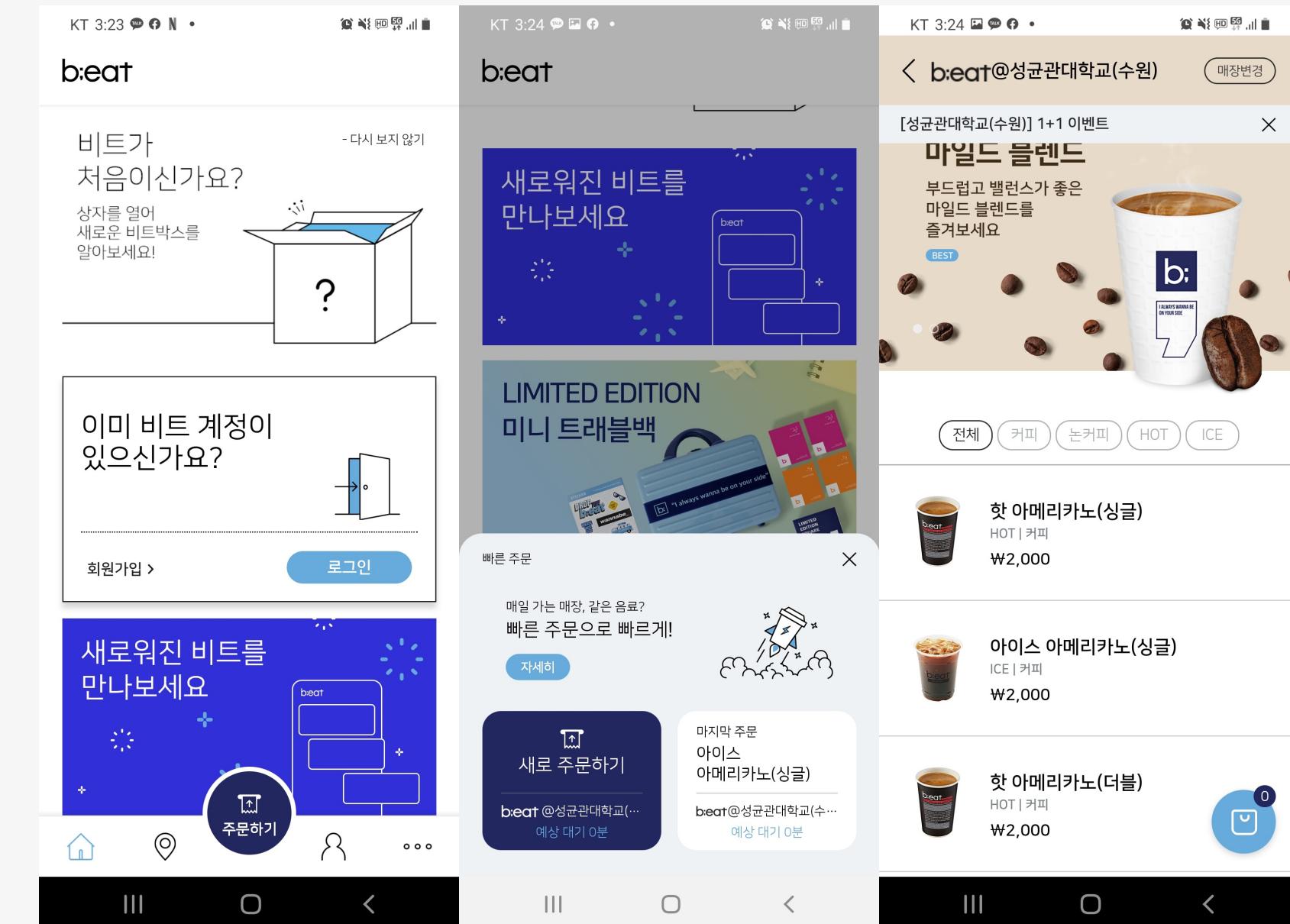
# 02. Background

## \_Market Status

### 1. Inside: b;eat Coffee



- Find nearest Coffee Machine from us
- Providing Waiting Time
- Providing advance payment system



## 02. Background

\_Market Status

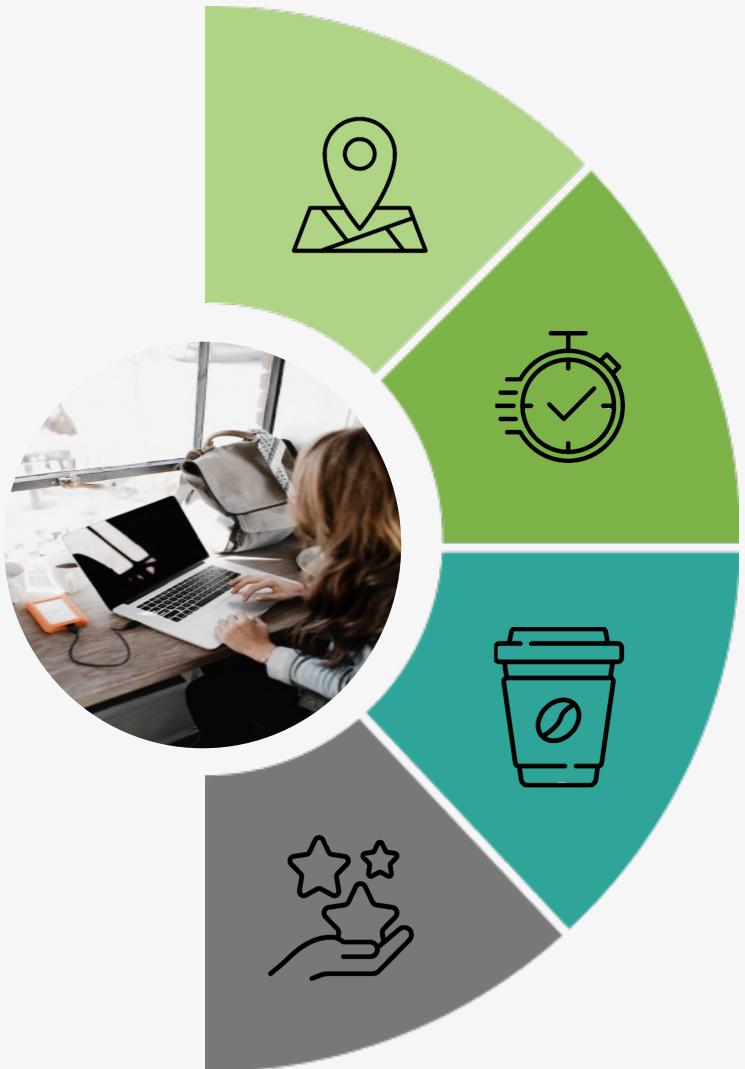
### 2. Outside : Other Brand Coffee Shop

	EDIYA	TWOSOME PLACE	HOLLYS COFFEE	TOM N TOMS COFFEE	STARBUCKS COFFEE
WAITING CHECK (AFTER PAY)	○	○	✗	✗	○
SMART ORDER	○	○	○	○	○
ORDER CHANGE/CANCEL (BEFORE MAKING)	○	○	○	○	✗
SMART POINT SYSTEM	○	○	○	○	○

- Most Famous coffee brands are offering smart orders to consumers.
- We think it will be very convenient if the integrated smart order system in our university is established.

# 03. Architecture

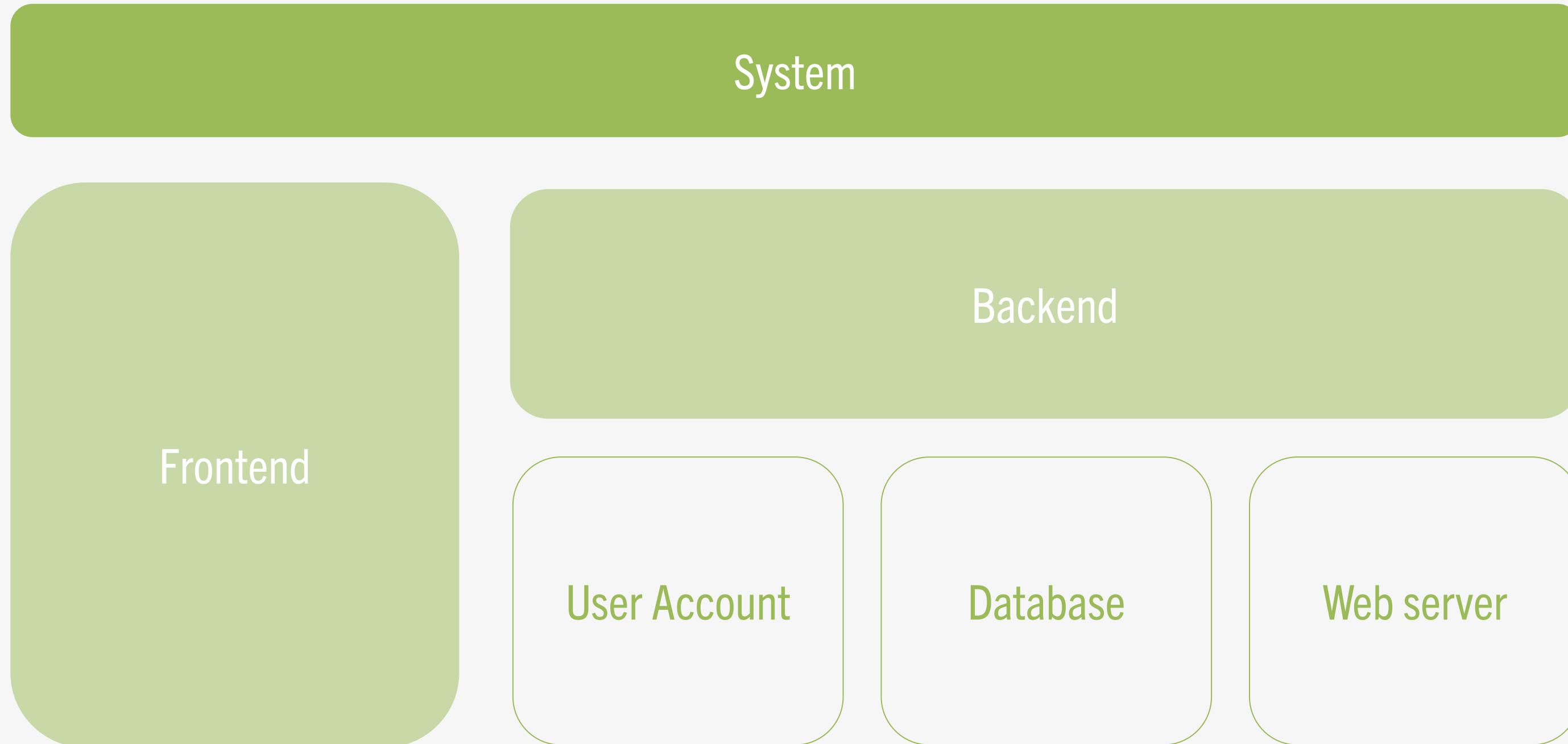
\_User Requirements



1. The locations of the cafes and my location are marked on a map so that they can be seen immediately.
2. We can check the real-time waiting status and expected waiting time for each cafe.
3. When you select a cafe, you can view the menu and make a pre-order/payment. And according to the waiting number, we can take out our pre-ordered coffee.
4. Implement an integrated payment system and coupon/point system for all cafes on campus (Managed by School)

# 03. Architecture

\_Method(tool)



# 03. Architecture

\_Method(tool)



- Adobe Xd  
For designing UI/UX
- Android Studio  
For importing UI/UX in application

# 03. Architecture

\_Method(tool)

Backend

Spring



Payment api



MySQL



AWS



Framework

KakaoPay

DBMS tool

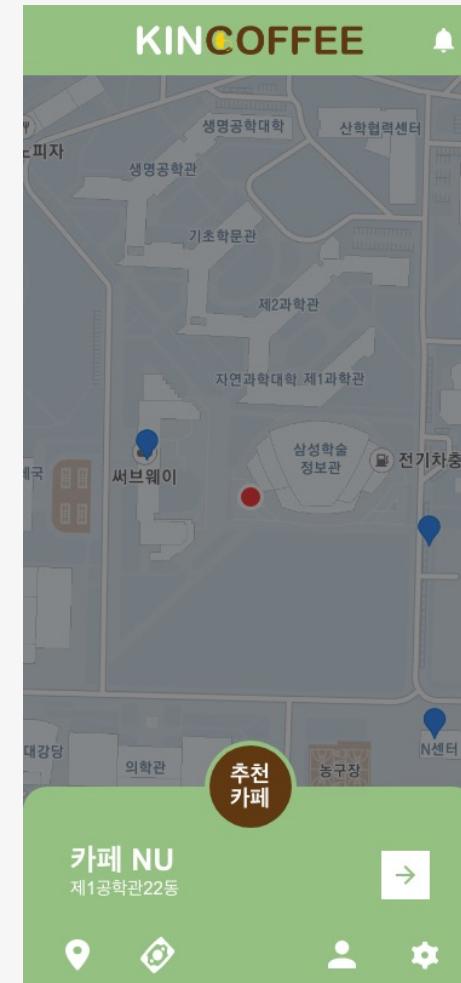
Server

# 03. Architecture \_Prototype

## Basic Design Plan



After Login



Select  
Campus and Cafe

Order

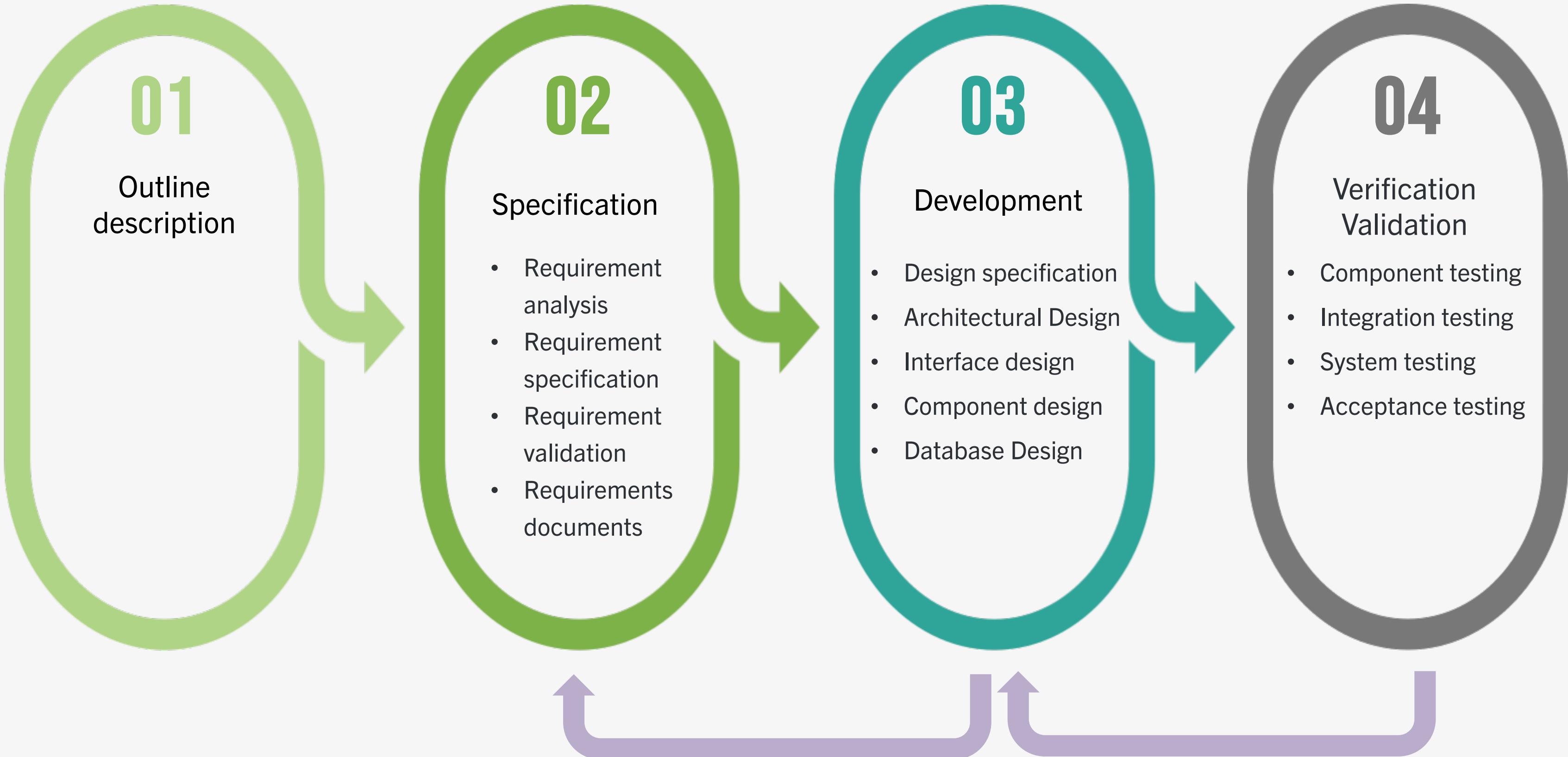


Status



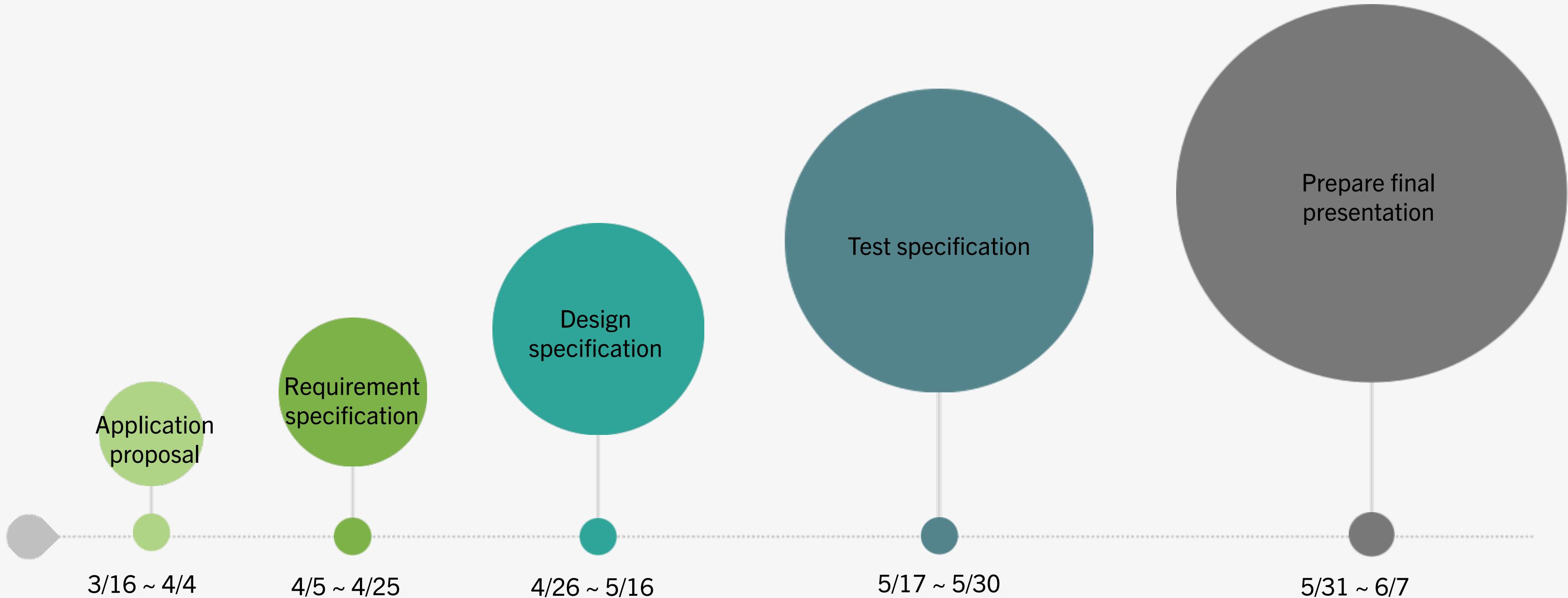
# 04. Plans

\_Flowchart



# 04. Plans

\_Plans



# 04. Plans

## Evaluation

Evaluation		Score				
Functionality	User Evaluations about UI / UX	1	2	3	4	5
Sustainability	Does it properly recommend the best store to the user?					
Reliability	Can it respond well to the addition of new stores?  Accuracy of information provided by products on current existing store status					
Efficiency	Payment system security  Is the response time in store recommendation and order/payment process short?					
Acceptancy	Can users easily understand how to use the product?					

# 04. Plans

\_Plans

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- 01 UI/UX design: (Jisu Ryou) - application design
- 02 Front-End Development: (Chанho Kim, Kangin Park) - android application design
- 03 Back-End Development: (Yelim So, Junsung Lee) - server design – Payment System design
- 04 Database Construction: (Suyoung Bae) – Make User database

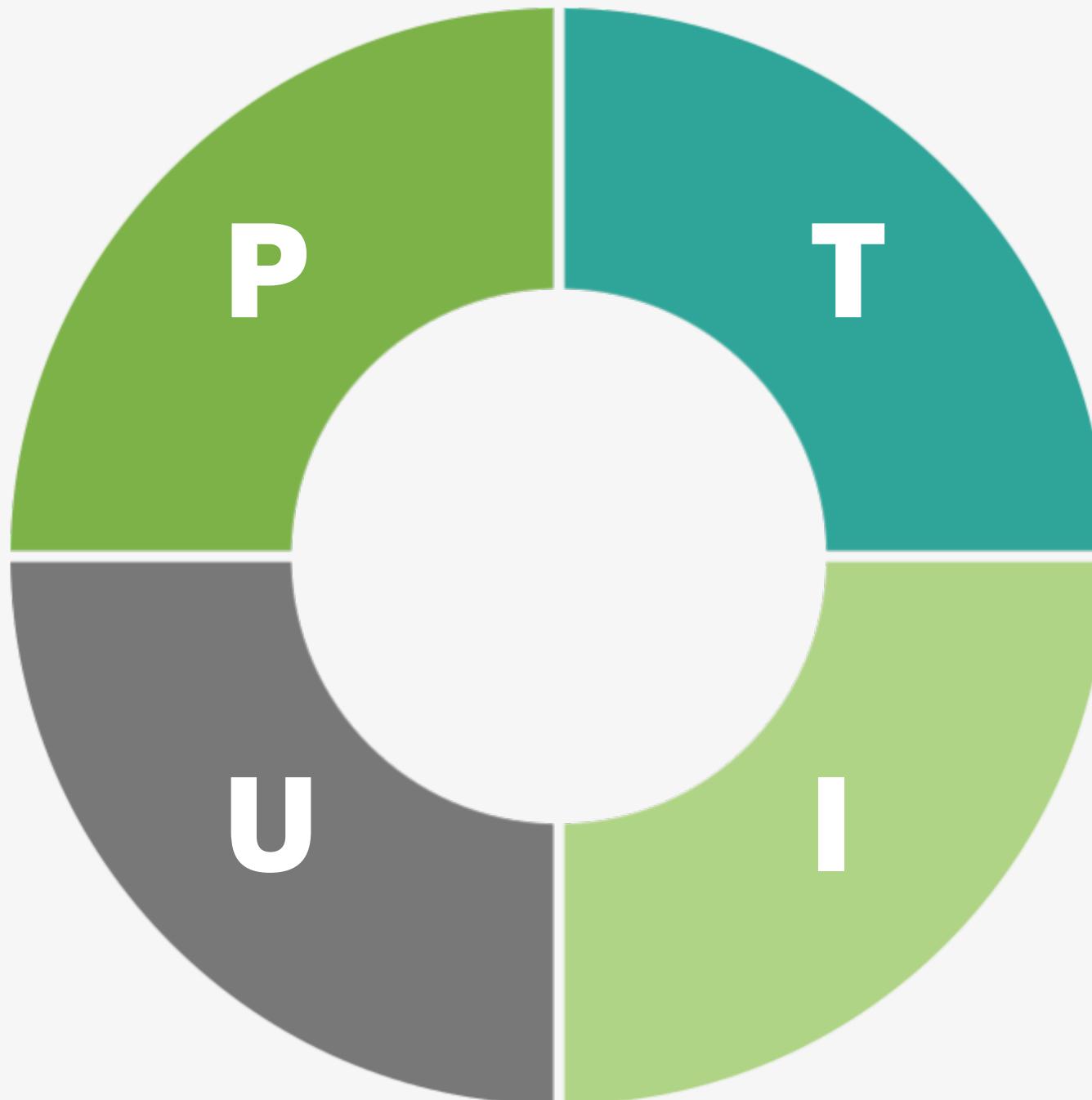
# 04. Plans

\_Effect, Benefit

**Planning**  
It allows users to create efficient movement lines while on the move using real-time information and location.

## Un-tact System

By checking the menu in advance and pre-order/payment, it is possible to place an order without facing.



## Time Saving

Overall order and take-out time is reduced.

## Integration System

If an integrated system is implemented, it is possible to compare and analyze each store, and payment and coupon/point usage becomes convenient.

# 05. Appendices

\_References

01

“프랜차이즈 업계, ‘타임테크’로 타임푸어 소비자 공략”

<http://www.irobotnews.com/news/articleView.html?idxno=19158>

02

“성큼 다가온 스마트 오더 시대... 아직도 카페 줄 서니? 나는 테이블서 ‘톡톡’”

<https://www.mk.co.kr/news/business/view/2019/12/1053011/>

A black and white photograph of a diverse group of five business professionals in a meeting. A woman in the foreground on the right is smiling and holding a white coffee cup. The other four individuals are looking towards the left of the frame. The background is slightly blurred.

**Thank You**