

# Functional and Non-Functional Requirements

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What is functional and Non-functional requirement

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Food delivery application



# Functional Req.

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- Specific features and capabilities of a system or product
- Must meet the needs of its users or customers
- Examples include user login, data search, and file upload etc.



# Non-Functional Req.

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- The characteristics of a system or product that do not relate to specific functionality
- Rather relate to how well the system or product performs
- Examples include performance, security, and scalability, etc.



# How to gather requirements?



# Requirement Gathering Techniques



Questionnaire

# Requirement Gathering Techniques



Questionnaire



Interview

# Requirement Gathering Techniques



Questionnaire



Interview



JAD

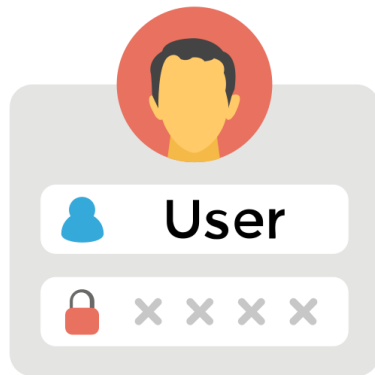


# Case Study (BBFC)

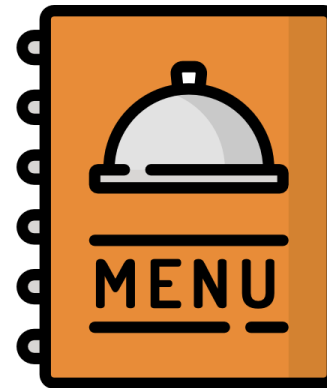
- Food delivery application
- Potential users: Admin, Consumer/Customer, Restaurant Owner, Delivery Person



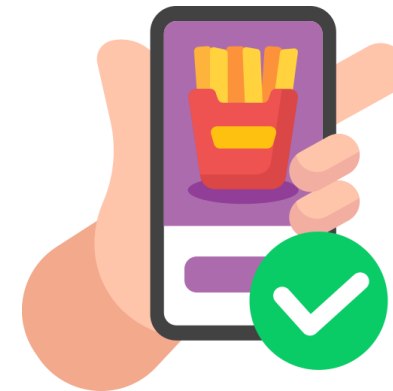
# Potential Functional Req. (Customer's POV)



Sign up & Log in



Browse & View  
Menu



Place Order

# Potential Functional Req. (Customer's POV)



Track Order



View & Modify  
Order



Rate & Review

# Potential Functional Req. (Owner's POV)

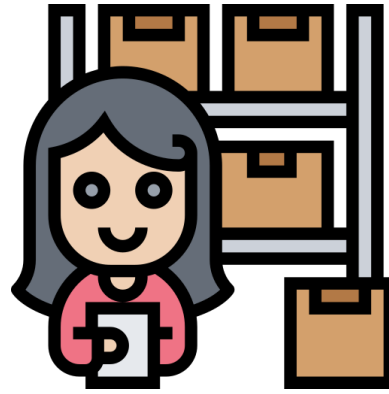


**Manage Menu,  
Pricing & Inventory**



**View & Manage  
Orders**

# Potential Functional Req. (Delivery Person's POV)

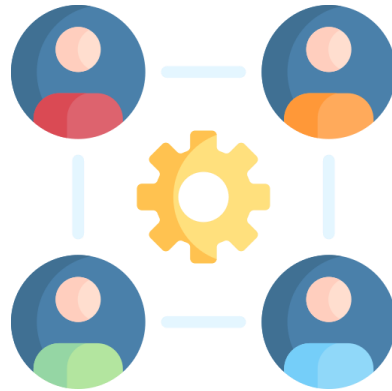


**View Delivery**

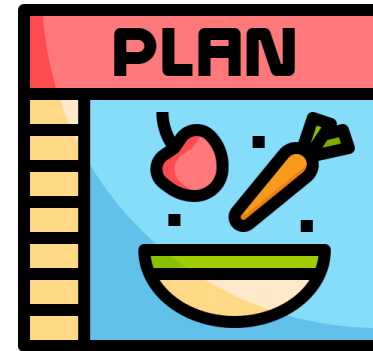


**Manage Delivery**

# Potential Functional Req. (Admin's POV)



**View & Manage  
Users**



**Manage  
Restaurant**

The background features several overlapping geometric shapes, primarily diamonds and triangles, in teal, yellow, and green colors. These shapes are arranged in a way that creates a sense of depth and movement, with some shapes appearing to be layered on top of others. The colors are vibrant and the shapes are sharp, contributing to a modern and abstract aesthetic.

“

**What are some of the probable *questions* to ask the users?**

# Sample Questions (For Customers)



- How important is the ability to create an account and log in to the app to you?
- How important is the ability to browse and view menus and pricing information for different restaurants to you?
- How important is the ability to place orders and pay for them online to you?
- How important is the ability to track your order status in real-time to you?
- How important is the ability to view and modify past orders to you?
- How important is the ability to rate and review restaurants and orders to you?



# Sample Questions (For Owners)



- As a restaurant manager, how important is the ability to manage menus, pricing, and inventory to you?
- As a restaurant manager, how important is the ability to view and manage orders to you?

# Sample Questions (For Delivery Person and Admins)



- As a delivery driver, how important is the ability to view and manage deliveries to you?
- As an administrator, how important is the ability to manage users, restaurants, and deliveries to you?

# Potential Non-Functional Req.



Quick Response Time (less than 2 seconds when displaying menus and pricing information)



System must be able to handle a minimum of 10,000 concurrent users



System must be available 99.99% of the time

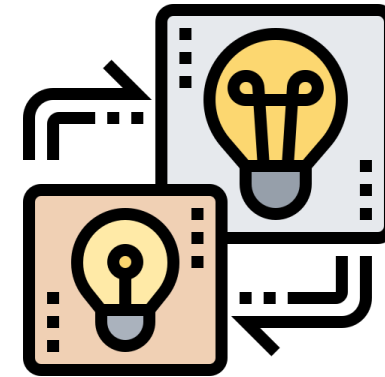
# Potential Non-Functional Req.



**System must be secure and protect users' personal and financial information**



**System must be compatible with multiple devices and platforms (iOS, Android, web)**



**System must be scalable to accommodate an increasing number of users and orders and must be able to handle large amount of data**

The background features several overlapping geometric shapes, primarily diamonds and triangles, in teal, yellow, and green colors. These shapes are arranged in a way that creates a sense of depth and movement, with some shapes appearing to be layered on top of others. The colors are vibrant and the shapes are sharp, contributing to a modern and abstract aesthetic.

“

**What are some of the probable *questions* to ask the users?**

# Sample Questions



- How quickly would you like the app to respond when displaying menus and pricing information?
- How many concurrent users do you expect the app to handle at one time?
- How much availability do you expect from the app (e.g., 99%, 99.9%, 99.99%)?
- How important is the security and protection of your personal and financial information on the app to you?
- What devices and platforms do you typically use and how important is it for the app to be compatible with them?

# Sample Questions



- How important is accessibility for people with disabilities to you when using the app?
- How important is scalability for the app to handle increasing number of users and orders?
- How much data do you expect the app to handle and how important is it for the app to be able to handle large amounts of data?
- How important is it for the app to provide detailed reports on sales, deliveries and customer behavior?



**Thank you**

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