Talabat food ordering system

Team 13

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System Analysis and Design

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Introduction

Talabat is an online food ordering service that helps customers find restaurants in their area, filter by cuisine, browse menus and place their orders with an option of online payment or cash on delivery. We offer our services through desktops and mobile apps for iPhone, Android, iPad and windows.

Planning

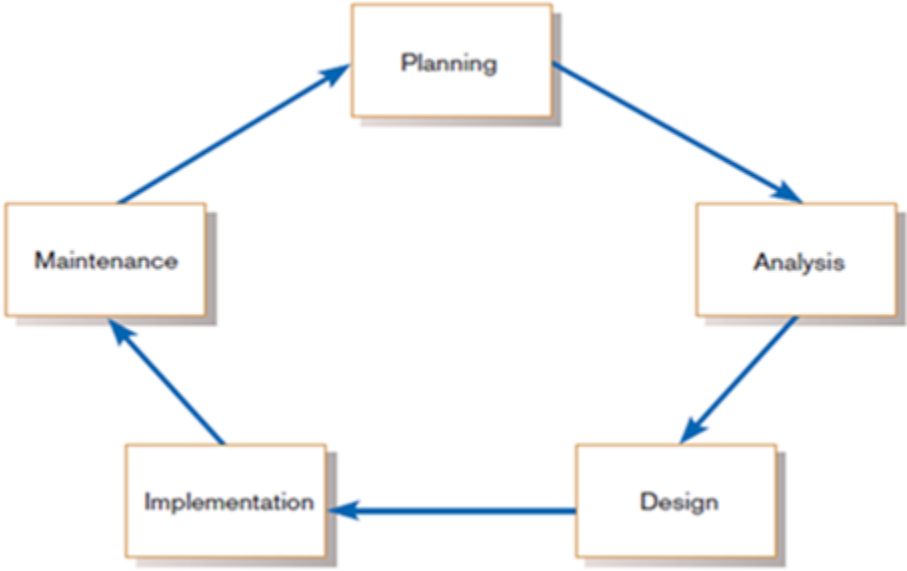
Problem definition:

- **Current problem:** Users don’t have a service that gathers all restaurants in one place, So when a users want to order more than one kind of food they has to order from multiple restaurants.

- **Proposed solution:** Gather all possible restaurants in one place so users can order whatever they want from the same place.

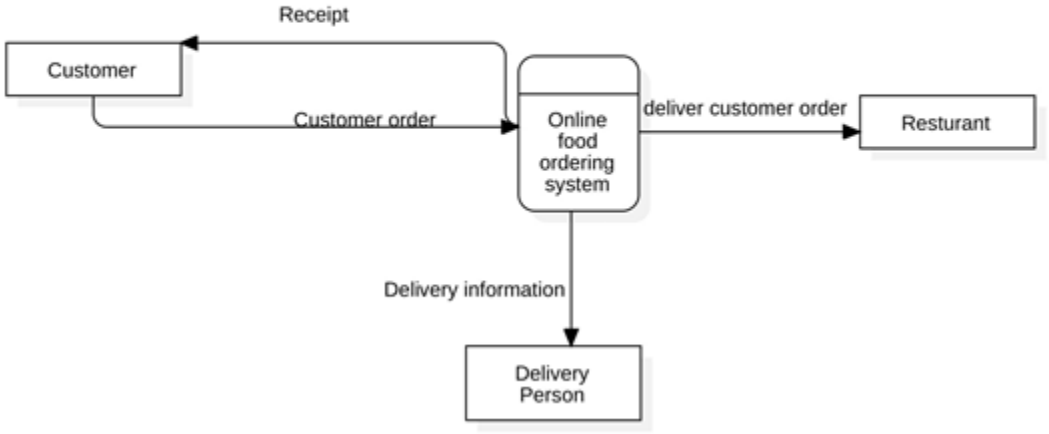
Methodology used

- ➔ Software Development Life Cycle (SDLC) is a system development methodology used to develop, maintain, and replace information systems.
- ➔ Methodology used in this project is SDLC.



System Scope

The scope of the project is to enable customers to order food and receive receipt with an option of online payment or cash on delivery. We deliver the customer order to the desired restaurant. Our employees then deliver their orders to them after fetching it from the restaurants.



Technical feasibility

Can we build it?

Familiarity with Application

- Talabat is similar to a couple of projects our team made before, the development process runs smoothly depending on our generous customers feedback, where they were happy that additional features were added relying on their customers feedback during the development of the project.

Familiarity with technology

- The application will be built to support both Android and IOS operating systems, while our team has a good experience in programming mobile applications for both systems, Java for Android and Swift for IOS.

Technical feasibility cont.

Project size

- Talabat will start relatively small as it will expand by time to gather many restaurants.

From these it's clear that Talabat Project is technically feasible.

Project Management Risks

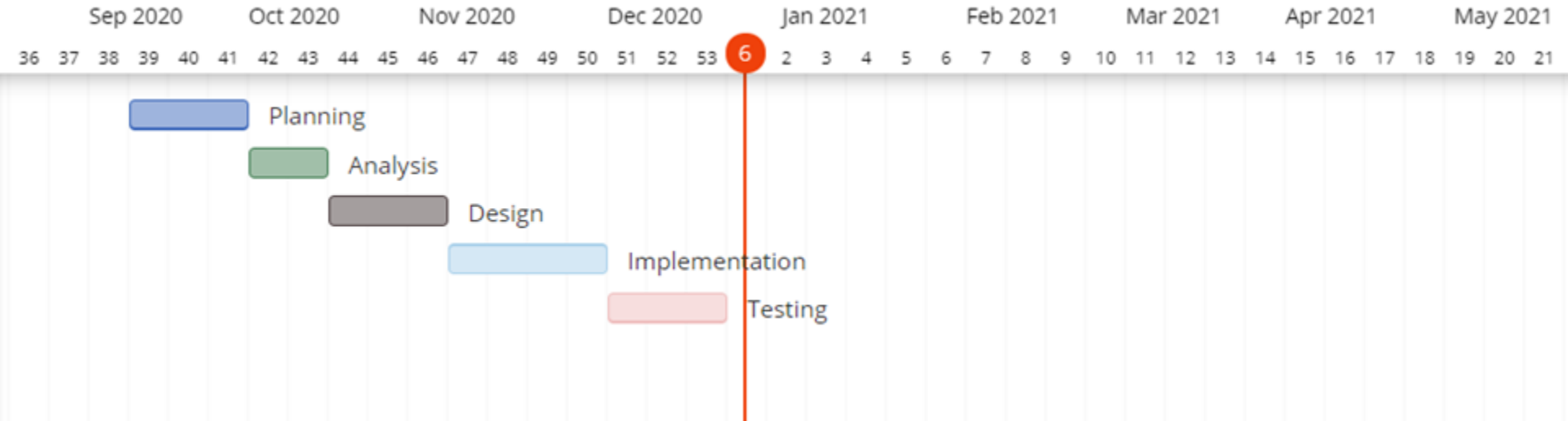
1- Resource Risks: not enough hardware to manage all the data on the app.

2- Procurement Risks : Some payment delays may affect the project progress.

3- Communication Risks : Members communication misunderstanding may cause some delays on the project delivery time.

Gantt Chart

- Gantt chart show planned and actual progress for several tasks displayed against horizontal time scale.



Analysis

Techniques used to collect requirement:

- Brainstorming
- Survey/Questionnaire

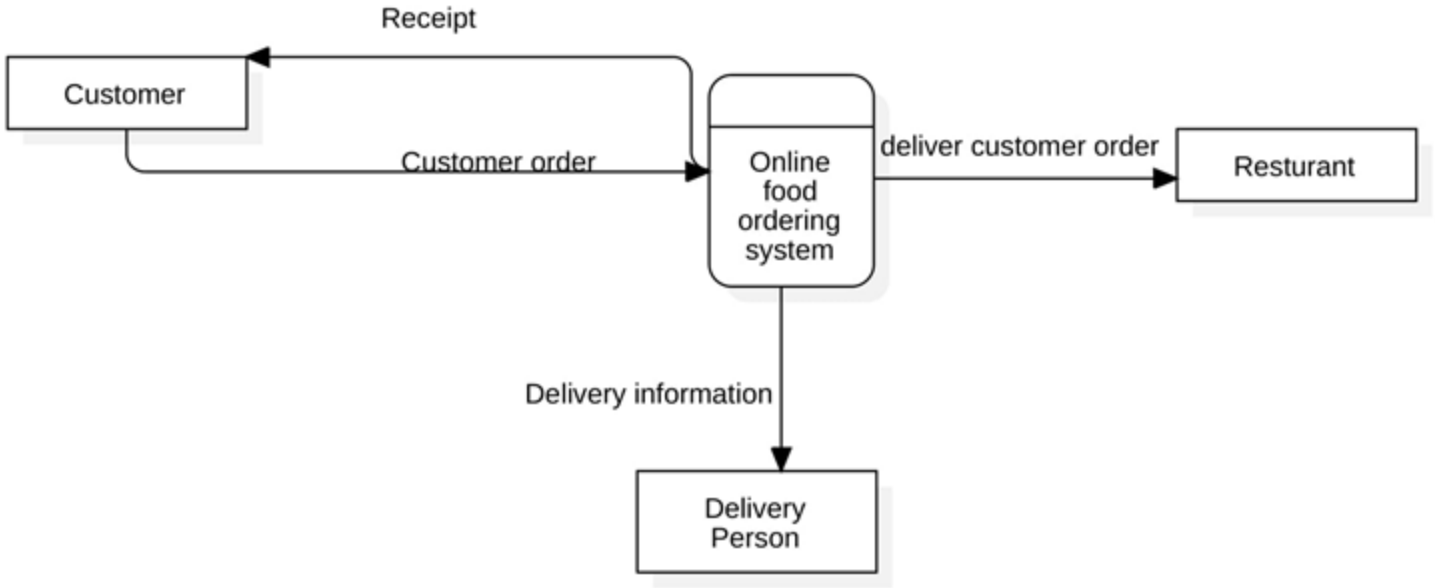
Functional Requirements

- The system shall give the user the ability to create his/her account.
- The system shall allow the user to select the restaurant he/she wants.
- The system shall allow the user to know the price for every item.
- The system shall allow the user to see the path of the food from its preparation until its arrival.
- The system shall allow the user to give his/her feedback about the food and driver.
- The system shall allow the user to see the rating of each restaurant and people’s feedback about it.
- The system shall allow the user to see his/her previous orders and re-order any of them.

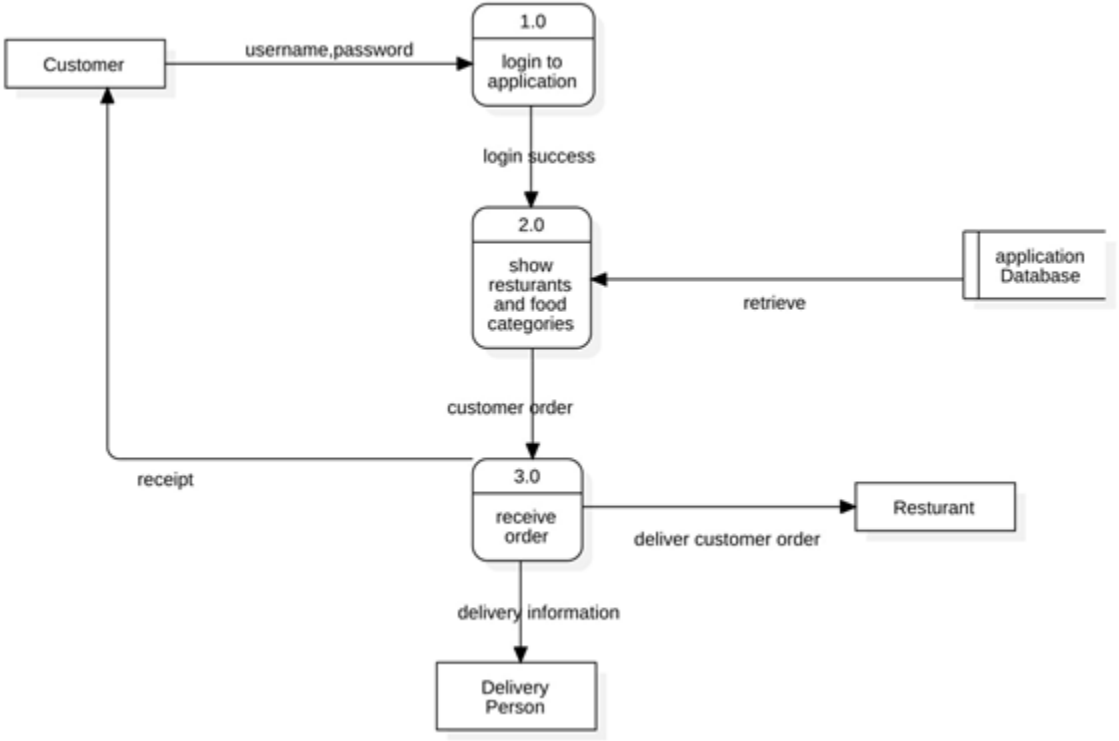
Non-Functional Requirements

- Ease of use: the system should be easy to use and not require previous user experience.
- Privacy: there must be complete privacy for user information.
- Capacity: the system must support the largest possible number of customers at time.
- Scalability: the admin must have the ability to expand the system by adding new restaurant or new service to the system.
- Testability: the developers must have the ability to fully test the system and detect errors.

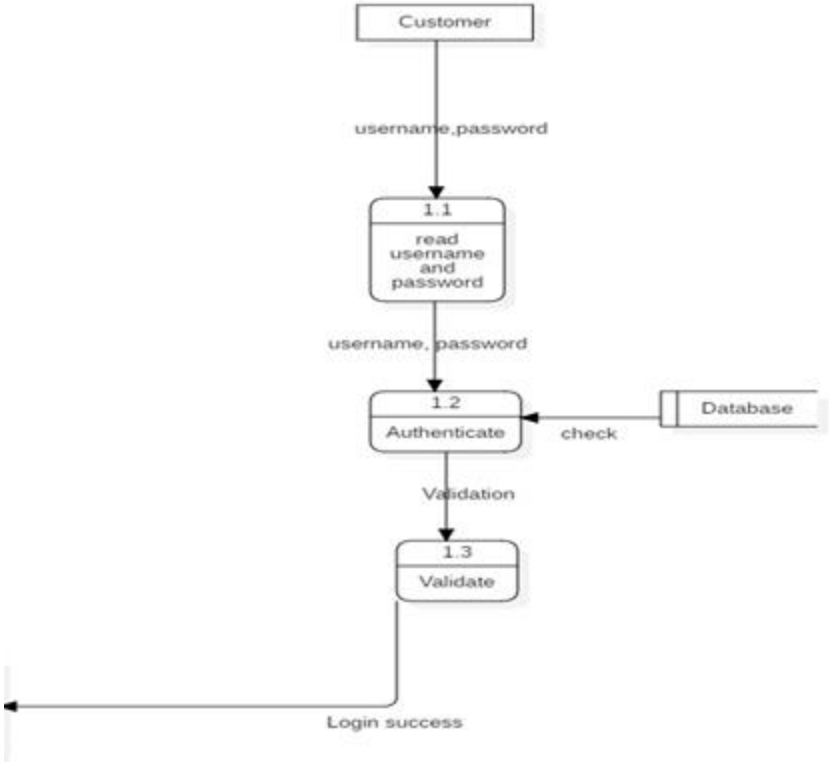
Context Diagram



Level-0 Diagram



Level-1 Diagram

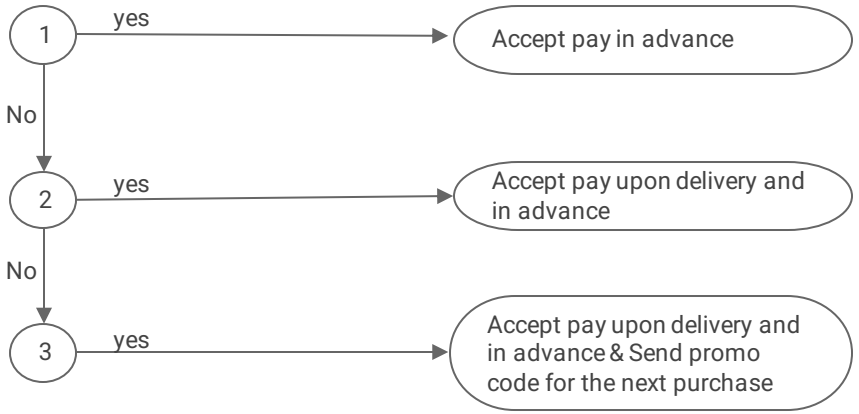


Decision table

- The logic of a decision can be represented in various ways, like decision table, decision tree ,and pseudo code.
- The table below shows decision table for customer categorization for payment method upon order value process:

	Rules			
Conditions	1	2	3	4
New customer	Y	N	N	N
Previous transaction > 300$	N	Y	N	Y
Current transaction > 200$	N	N	Y	Y
Actions	1	2	3	4
Accept “pay in advance”	X	X	X	X
Accept “pay upon delivery”		X	X	X
Send promo code for the next purchase				X

Decision Tree



Legend:
1) New customer
2) Pre transaction > 300$
3) Pre transaction > 200$

Pseudo code

```
If (customer_status  == new)
{
        Payment_in_advance  = true
        Payment_upon_delivery  = false
        Promo_code  = false
}

Else
{
        if (pre_transaction  > 300 and current_transaction  >200)
                {
                        Payment_in_advance  = true
                        Payment_upon_delivery  = true
                        Promo_code  = true
                }
        Else if (pre_transaction  > 300)
                {
                        Payment_in_advance  = true
                        Payment_upon_delivery  = true
                        Promo_code  = false
                }
        Else if (current_transaction  >200)
                {
                        Payment_in_advance  = true
                        Payment_upon_delivery  = true
                        Promo_code  = false
                }
}
```

Data Conceptual model:

Design:

Database Design:

➢ Table schema:

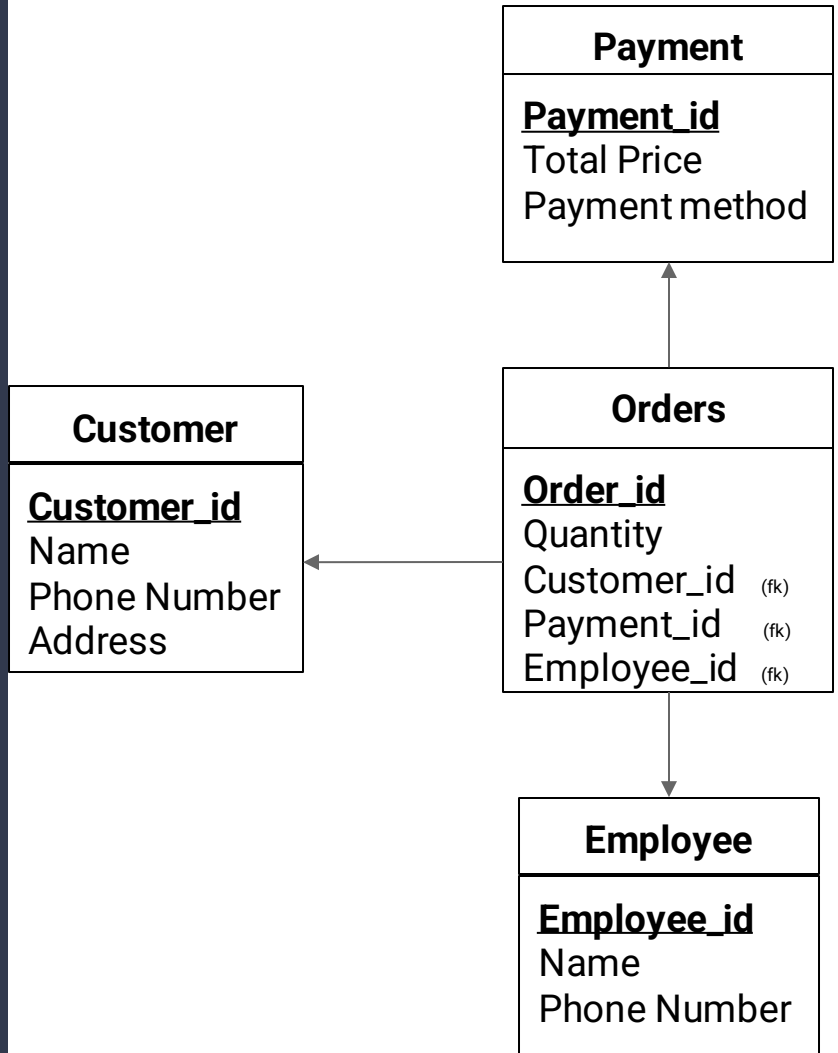


Table description:

Order table:

Name	Type	Size	Description
Order_id	Integer	10	ID for the order
Quantity	Integer	10	Quantity of order
Customer_id (fk)	Integer	10	ID for the customer
Payment_id (fk)	Integer	10	ID for the payment
Employee_id (fk)	Integer	10	ID for employee

Table description:

Customer table:

Name	Type	Size	Description
Customer_id	Integer	10	ID for the customer
Name	Varchar	50	Customer’s name
Phone Number	Integer	10	Customer’s phone number
Address	Varchar	20	Customer’s address

Table description:

Payment table:

Name	Type	Size	Description
Payment_id	Integer	10	ID for the payment
Total price	Integer	10	Total price for the order
Payment method	Varchar	10	Pay by cash or credit

Table description:

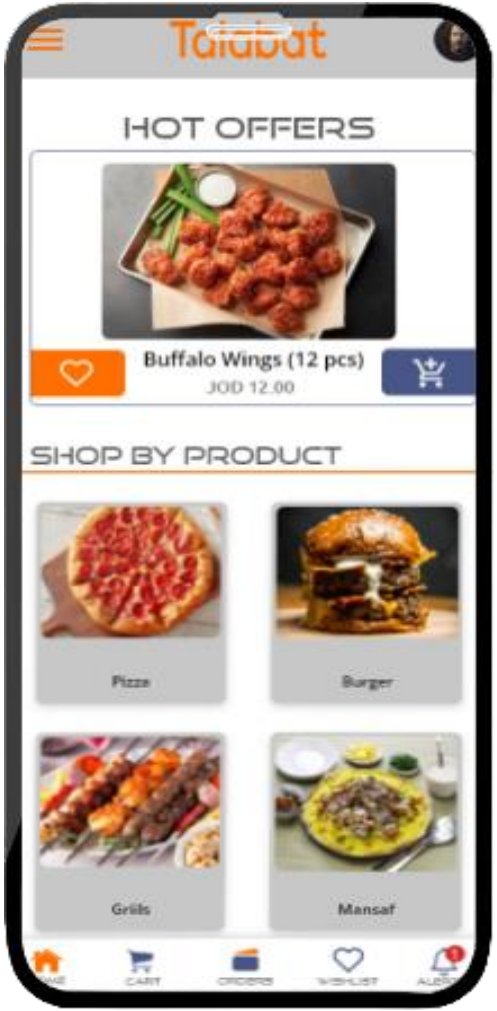
Employee table:

Name	Type	Size	Description
Employee_id	Integer	10	ID of the Employee
Name	Varchar	50	Employee’s name
Phone Number	Integer	10	Employee’s phone number

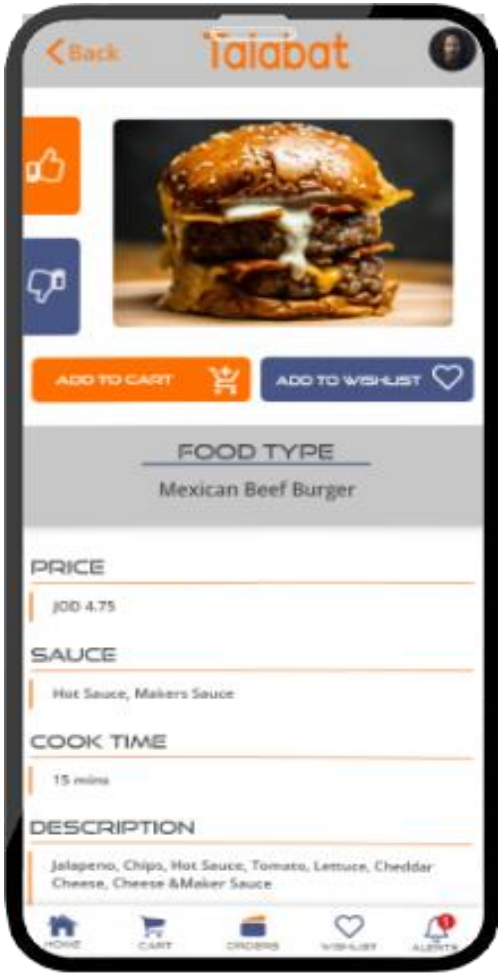
Login Page


Back
Talabat
Proceed with your
LOGIN
USERNAME
PASSWORD
Keep me logged in
LOGIN
Or Login Using
Forgot Password?

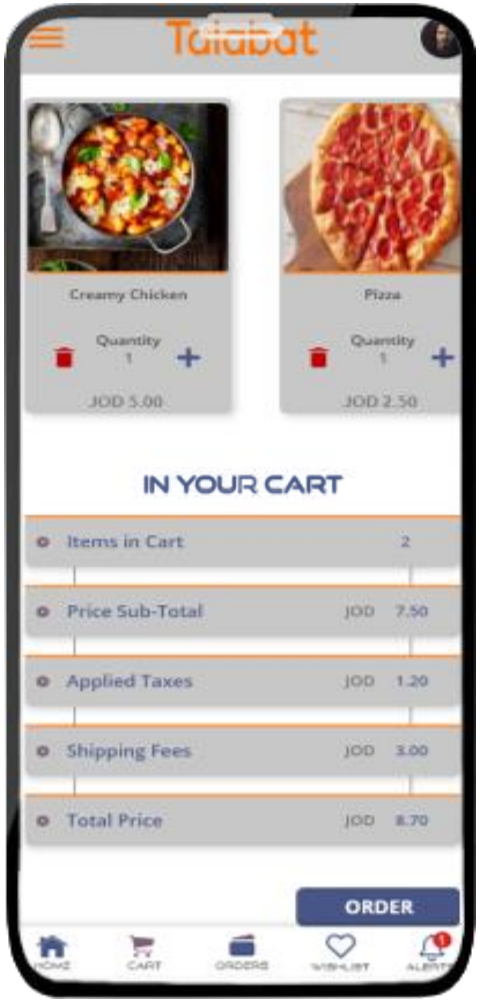
Home Page


Talabat
HOT OFFERS
Buffalo Wings (12 pcs)
JOD 12.00
SHOP BY PRODUCT
Pizza
Burger
Grills
Mansaf

Product Details



Food Cart


Talabat
Creamy Chicken
Quantity
1
JOD 5.00
Pizza
Quantity
1
JOD 2.50
IN YOUR CART
Items in Cart 2
Price Sub-Total JOD 7.50
Applied Taxes JOD 1.20
Shipping Fees JOD 3.00
Total Price JOD 8.70
ORDER
HOME
CART
ORDERS
WISHLIST
ALERTS

Testing

Black box testing: treats the software as a "black box". Examine functionality of the software without any knowledge of internal implementation.

Description	Input	Expected output
Log in with a wrong email	abc@gmail.con	Wrong email.
Miss password in login page	Email: abc@gmail.com password:	Password is required.
Correct email and password	Email: abc@gmail.com password:123456	Valid login, main menu will be displayed.
Press order button	Tap order button	Display (choose payment method) page
Press "plus" button in shopping cart page	Tap "plus" button	Add one more dish to the order
Press delete button in shopping cart page	Tap "delete" button	Order deleted from cart

Thank you

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