جامعة أم القرى
UMM AL-QURA UNIVERSITY

Software Documentation and Technical Writing

Jahez Application

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Task Schedule

The Topic	The Student Completed the Task
The Introduction	Maryam Hassan AlZubaidi Amal Yahya Al-zubaidi
Requirements	Amal Yahya Al-zubaidi
Purpose of Jahez Application	Amal Yahya Al-zubaidi
Survey	Maryam Hassan AlZubaidi
Advantages and Disadvantages	Maryam Hassan AlZubaidi
Comparison	Maryam Hassan AlZubaidi
Conclusion	Amal Yahya Al-zubaidi
Interface	Amal Yahya Al-zubaidi
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Figure 1: Task Schedule

Contents

1 abstract

The Jahez app is a food delivery service in Saudi Arabia that has become a part of many people's daily lives. It is known for making it easy and quick to order food. This document talks about different aspects of the app. It explains how Jahez connects users with many restaurant options, offers real-time order tracking, and provides flexible payment methods to meet users' needs.

Jahez aims to simplify the food ordering process. It helps users find a wide range of restaurants and shops while providing a smooth experience, allowing them to track their orders as they are prepared and delivered. The document also looks at how other food delivery apps face challenges, such as high fees and inconsistent services. Jahez stands out by offering better, more efficient services at lower costs, which helps to build customer loyalty and attract more users.

The app has several key features. Users can create accounts and log in using their email or phone number. There is an advanced search function that lets users find restaurants by name or location. The app also displays detailed menus, including prices and ingredients, which helps users make informed choices. Various payment options are available, including credit cards and electronic wallets, making transactions easy. Users can track their orders in real-time, from preparation to delivery.

Non-functional requirements focus on performance, meaning the app should respond quickly to ensure users are satisfied. The system needs to handle more users without slowing down, which requires it to be scalable. Additionally, it is crucial for the app to keep sensitive information, like payment details and personal data, secure to gain users' trust.

The design of the system is important, as it includes custom interfaces for users, restaurant owners, and drivers, making it easy to use. The app is built on a microservices architecture, which allows it to work efficiently and be flexible in processing orders and payments. It supports both iOS and Android systems, broadening its user base.

Data models in the app store important information. The user model includes details like names, addresses, and past order history, helping users manage their accounts. The restaurant model contains information about restaurant names, locations, menus, and prices, assisting users in choosing where to order from. The driver model holds data about drivers, including their profiles, vehicles, and assigned tasks, which helps manage delivery services.

In conclusion, the document highlights how Jahez has evolved into a leading food delivery solution in Saudi Arabia. It emphasizes the app's main advantages, such as speed, ease of use, and variety of choices. The technical design of the app is discussed, showing how it meets different needs to provide a great user experience, ensuring customer satisfaction and loyalty.

2 Topic :Introduction

2.1 Introduction

Delivery apps have become essential in our daily lives for several reasons, primarily because they offer convenience and speed. They allow us to quickly order food or other items without leaving the house, saving us a lot of time and effort. Additionally, they provide a wide variety of choices, giving us access to numerous restaurants and services all in one place. These apps have become a perfect solution for people with busy schedules or those who want to avoid the hassle of going out and dealing with traffic, especially during peak hours. Furthermore, apps like Jahez offer continuous discounts and attractive deals, making them a popular choice for many users looking to save money. Our need for these apps stems from the desire to simplify our daily lives, save time and effort, which is why apps like Jahez have become a go-to option for many.

In the end, Jahez seems to address many of the issues that users face with other delivery apps, especially when it comes to affordability and ease of use.

Jahez is a Saudi app that makes ordering food from restaurants simple and easy. The main goal of the app is to provide users with a smooth experience by offering different delivery options, multiple payment methods, and regular improvements to the service. Jahez features many restaurant choices, giving users access to a wide variety of food to suit different tastes.

To use the app, users need to create an account or log in using their email or phone number, ensuring their information remains secure. After logging in, users can search for restaurants by name or location, making it easier to find nearby places or their favorites. The app also displays detailed menus with prices, helping users decide what to order.

For payments, Jahez provides several options, including credit cards, e-wallets, and cash on delivery. One of the most helpful features is the live tracking system, which allows users to see where their order is in real-time—from the restaurant to their doorstep. This gives users peace of mind and a better sense of control over their order. Jahez also focuses on customer satisfaction. The app is designed to be simple to use, so anyone can navigate it without difficulty. Customer support is available to help with any issues or questions. Jahez is known for its fast delivery compared to other apps. While it covers many areas, it might not yet be available in some remote locations. To keep users engaged, Jahez regularly offers discounts and special promotions.

Overall, Jahez is a reliable and easy-to-use app for ordering food in Saudi Arabia, combining convenience, variety, and speed to meet users' needs.

Figure 2: Survey Results on Jahez App Usage and User Experience

To assess users' experience with delivery apps, we conducted a survey to explore the pros and cons of the Jahez app. As shown in the charts (1.3.1) and (1.3.2), the results indicated that most users use the app occasionally, but overall, they rated their experience as excellent.

Figure 3: Survey Results on Ease of Use, Design, and Technical Issues in the Jahez App.

In image (1.3.3), one of the main positives mentioned was how easy the app is to use, with many users finding the design and layout highly appealing, which they considered a significant advantage (as shown in image 1.3.4). From a technical perspective, only a few users reported issues, while the vast majority faced no problems at all (as shown in image 1.3.5).

(image 1.3.6) (image 1.3.7) (image 1.3.8) (image 1.3.9)

Figure 4: Survey Results on App Speed, Restaurant Options, and Payment Methods in Jahez

The app performs tasks quickly (Regarding the app's performance, the survey revealed that it excels at completing tasks quickly (as shown in image 1.3.6), and customer service responds promptly (as shown in image 1.3.7). Users also appreciated that the app provides access to their favorite restaurants, which enhanced their overall experience (as shown in image 1.3.8). In terms of payment methods, Jahez offers several options, with most users preferring to pay online (as shown in image 1.3.9).

(image 1.3.10) (image 1.3.11) (Table 1.3.12) (image 1.3.13)

Figure 5: Survey on Delivery Prices, Issues with Couriers, and Promotions

When it comes to delivery fees, most users found them very reasonable (as shown in image 1.3.10), while only a few users mentioned issues with the delivery staff (as shown in image 1.3.11). Some users shared the problems they faced (as shown in Table 1.3.12), but the majority did not experience any issues. Additionally, many users agreed that the app provides a lot of great deals and promotions (as shown in image 1.3.13).

As the survey analysis shows, the key takeaways from the survey include that most users rated their experience with the Jahez app as excellent. Although they use the app occasionally rather than regularly, they appreciated its user-friendly design and quick task performance. Payment options are varied, with a preference for online payments, and delivery fees were considered reasonable by the majority. Few users had complaints about the delivery staff, and many valued the frequent offers and discounts provided by the app.

2.2 Purpose

The Jahez app is a Saudi application designed to make ordering food and other products easy and convenient for users. Its main goal is to connect users with a variety of restaurants and stores, allowing them to choose their favorite meals and products all in one place.

One of the key features of Jahez is that it provides a single platform for food and product delivery. This means users don't have to download multiple apps or visit different websites to find what they want. Instead, they can browse through many restaurants and stores using Jahez, making it simpler to find their favorite items.

The app is designed to be user-friendly, which makes the ordering process straightforward. Users can easily navigate through the app, select the items they want, and place their orders quickly. Jahez also includes a tracking feature that lets users know the status of their orders in real time. They can see when their order is being prepared, when it's on its way, and when it will arrive, which helps them feel more secure and in control.

Another important aspect of Jahez is that it connects users with local restaurants and stores. This not only gives users access to a variety of options but also supports local businesses by helping them reach more customers. When users order through Jahez, they are contributing to their local economy.

Additionally, Jahez aims to improve the delivery experience. It offers fast delivery services, which are important for users who want their food or products quickly. With real-time tracking, users can plan better while waiting for their orders to arrive.

In summary, Jahez is all about making the process of ordering and delivering food and products easy and comfortable. It provides a convenient way for users to enjoy a variety of choices while ensuring they receive their orders promptly and efficiently.

2.3 Existing systems

Here's a revised paragraph that includes examples of issues present in other delivery apps and positions Jahez as the solution: Many users encounter several issues with existing delivery apps, such as high delivery fees, inconsistent service quality, and a limited selection of restaurants. These problems can lead to frustration and dissatisfaction, prompting users to seek a more reliable and cost-effective alternative. Jahez emerges as a solution to these challenges, effectively addressing concerns about affordability and user experience.

Delivery apps have become essential in our daily lives for several reasons.Firstly, they offer convenience and speed, allowing users to order food or other items quickly without needing to leave home. Secondly, they provide a variety of choices, giving users access to multiple restaurants and services all in one app. Lastly, they save time and effort, making them perfect for those with busy schedules or those who want to avoid going out.

Common issues that lead us to use delivery apps include busy lives, where many people have tight schedules, and delivery apps make life easier by bringing items directly to them. Additionally, these apps help avoid traffic, saving users the hassle of dealing with congestion, especially during peak hours. Users also tend to look for deals, and apps like Jahez often provide continuous discounts, making them more appealing.

In the end, Jahez seems to effectively address many of the challenges users face with other delivery apps, particularly regarding affordability and ease of use. Based on the comparison in Table 1.5.1, it's clear that Jahez stands out as a better option than Mrsool and other alternatives.

Reasons That Led Us to Use Jahez :

- **Ease of Use:** Jahez has a simple, user-friendly interface, while Mrsool's interface can feel more complex..
- **Restaurant Variety:** Jahez offers a wider selection of local restaurants, giving users more choices compared to the limited options on Mrsool.
- **Delivery Speed:** Jahez tends to have faster delivery, thanks to its strong partnerships, while Mrsool's delivery time can vary depending on the driver.
- **Costs:** Jahez generally has lower and more competitive delivery fees than Mrsool, which can sometimes be more expensive.

- **Payment Options:** Jahez provides multiple, flexible payment options, unlike Mrsool, which has fewer choices.
- **Customer Support:** Jahez offers fast and efficient customer service, whereas Mrsool's support is more moderate.
- **Discounts and Offers:** Jahez consistently provides special deals and discounts, while Mrsool has fewer offers available.
- **Extra Features:** Jahez includes features like real-time order tracking and trusted user reviews, making the overall experience more reliable.

Aspect	Jahez App	Mrsool App	Jahez App Advantages
Ease of Use	Simple and easy-to-use interface	Medium user interface	Sleek design and easy navigation
Restaurant Availability	Large number of local restaurants	Fewer restaurants available	More variety in options
Delivery Speed	Fast delivery thanks to wide partnerships	Varies depending on the courier	Faster delivery times
Costs	Competitive delivery fees	Higher fees at times	Lower and more competitive prices
Payment Options	Multiple and easy payment options	Limited payment options	Flexibility in payment methods across different platforms
Technical Support	Fast and effective customer support	Moderate customer service	Distinguished and professional customer support
Discounts and Offers	Continuous discounts and offers	Fewer offers	Special and continuous discounts
Additional Features	Fast tracking of custom orders	Standard tracking for orders	Additional services such as fast order tracking
Ratings and Reviews	Comprehensive restaurant ratings	Limited reviews	Trusted user reviews

Table 1: Comparison of Jahez and Mrsool Apps

2.4 Functional Requirements

2.4.1 Account Creation and Login

Users can create accounts or log in using an email or phone number, which ensures a personalized experience and secure storage of order history and payment information.

2.4.2 Searching for Restaurants

Users can search for restaurants by name or location. Filters like cuisine type or ratings can enhance the search experience.

2.4.3 Browsing the Menu

Each restaurant's menu is displayed with detailed information about dishes, ingredients, and prices.

2.4.4 Payment Options

The app supports multiple payment methods, including credit cards, e-wallets, and cash on delivery.

2.4.5 Order Tracking

Real-time tracking allows users to monitor their orders from preparation to delivery, enhancing transparency and satisfaction.

2.5 Non-Functional Requirements

2.5.1 Performance

The system should respond quickly so users don't feel like they're waiting. When the system works quickly, user satisfaction increases, and they are more likely to keep using it.

2.5.2 Scalability

The system must handle more users without issues as it grows in popularity. As the system becomes popular, it needs to support many people at the same time without affecting performance.

2.5.3 Reliability

The system should be available most of the time, with minimal downtime. If the system crashes often, users will feel frustrated and lose trust in it.

2.5.4 Usability

The interface should be simple and easy to navigate. The easier the interface is to use, the more likely people will use the system without needing help.

2.5.5 Security

Sensitive information should be stored securely to protect it from unauthorized access. With growing concerns about privacy, security is essential to maintain user trust.

2.6 Advantages and Disadvantages

The Jahez app has become an important part of many people's lives because it meets the need for easy and fast food delivery. Its simple design makes it easy for anyone to use, no matter their experience with technology. The wide range of restaurants and cafes on the app gives users many options that fit different tastes and budgets.(As mentioned in the image 1.4.1).

One big reason people prefer Jahez is its fast delivery. Orders arrive quickly, solving the problem of long wait times that can be frustrating with other apps. Also, the order tracking feature lets users see where their order is on the map, which helps them feel at ease.(As mentioned in the image 1.4.1).

Another benefit of the app is the frequent offers and discounts, which make it a good option for those looking to save money. The app also allows users to share their reviews, which helps improve the service and increases trust between restaurants and customers.

However, there are some drawbacks. Delivery fees can be high when ordering from faraway restaurants, and sometimes there are issues like delays or missing items. The app may also run slowly on older devices and might not be available in some remote areas.(As mentioned in the image 1.4.1).

Even with these challenges, Jahez is still a favorite for many because it provides a reliable, fast, and easy food delivery experience, solving many problems people used to face with traditional delivery methods (As mentioned in the image 1.4.1).

Advantages	**Disadvantages**
Easy to use and navigate.	Delivery fees can be high for distant restaurants.
Fast delivery services.	Occasional delays in delivery.
Frequent discounts and promotions.	Limited availability in some remote areas.
Real-time order tracking.	

Table 2: Advantages and Disadvantages of Jahez App

We noticed from the survey that many users are pleased with our app and highlighted some features they really like, such as the speed, the special offers, quick delivery, and the guarantee that orders arrive without mistakes (as shown in the table 1.4.2).

Everyone knows that everything in life has its ups and downs. By making improvements to the app, we can increase user satisfaction. Some users suggested

enhancements they would like to see, like giving more attention to orders to avoid any problems and ensuring that customer service responds to clients more quickly (as shown in the table 1.4.3).

14. ما هي الميزات التي أعجبتك أكثر في التطبيق؟

9 Responses

ID ↑	Name	Responses
1	anonymous	كل شيء
2	anonymous	عادي
3	anonymous	السرعه
4	anonymous	العروض
5	anonymous	سرعة التوصيل و ضمان وصول الطلب بدون اخطاء
6	anonymous	سريع التوصيل
7	anonymous	جيد برنامج جيد
8	anonymous	سريع جداً وجميل
9	anonymous	سرعة التوصيل

(Table 1.4.2)

15. ما هي الميزات التي تشعر أنها تحتاج إلى تحسين؟

8 Responses

ID ↑	Name	Responses
1	anonymous	لا يوجد
2	anonymous	حاولو اكثر
3	anonymous	الاسعار
4	anonymous	الاهتمام بتوصيل الطلب بدون ان يحدث له مشكله
5	anonymous	خدمة العملاء اتمنى تتجاوب بسرعه
6	anonymous	لا يوجد
7	anonymous	لا شيء
8	anonymous	الاستجابة للعميل

(Table 1.4.3)

Figure 6: 1.2.4 - 1.4.3

2.7 Conclusion

Jahez considered as a leading example of how technology can transform the delivery experience, offering users speed, convenience, and quality. With its wide range of services, seamless order tracking, and user-friendly features, Jahez continues to evolve, setting a new standard for delivery solutions in the region. As it expands and adapts to the changing needs of consumers, Jahez is well- positioned to remain the top choice for those seeking efficient and reliable service in one app.

3 Topic : Performing the Design

3.1 Introduction

Jahez is a popular food delivery app in Saudi Arabia that connects customers with restaurants and delivery drivers. To keep the app running smoothly, it needs a solid system setup, easy-to-use data models, and clear technical information. Using version control is also important to manage changes and updates. This research will explain how Jahez is designed, the data it uses, technical details, and how it manages updates.

3.2 Online Food Delivery System Requirements

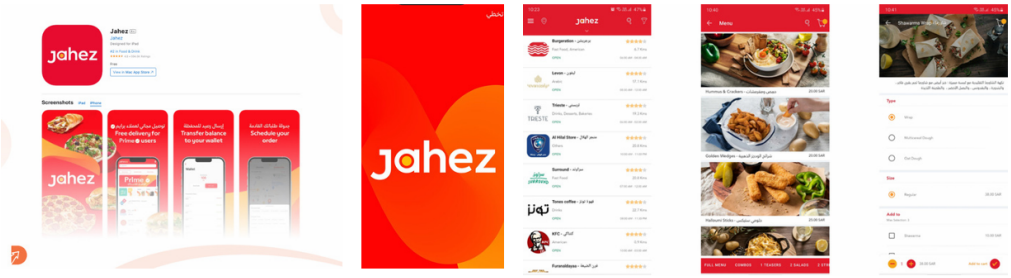
The above diagram depicts the actual requirements for an Online Food Delivery system. It comprises the following components:

- **Admin Panel**: Responsible for onboarding of Restaurant Owners and Delivery Partners.
- **Restaurant Owners**: Responsible for adding menus and managing orders and payments.
- **Delivery Partners**: Responsible for picking an order from the Restaurant Owners and delivering them to the customers.
- **Customers**: They are the actual clients who will be consuming the application. The customers will make orders from the system.

Figure 7: Architecture of the Online Food Delivery System

3.3 Application Interface

The Jahez app is designed with multiple user interfaces, each tailored to the specific needs of its primary users: customers, restaurant owners, and delivery drivers. These interfaces provide a seamless and intuitive experience, ensuring smooth interaction with the platform's services. Each user group benefits from unique functionalities, whether it's browsing and ordering food, managing restaurant operations, or delivering orders efficiently. The app focuses on creating an easy-to-use, reliable environment for all users, enhancing convenience and satisfaction.



3.3.1 Main Application Interfaces

The Jahez app features three primary user interfaces tailored for different users: customers, restaurant owners, and delivery drivers. Each interface is designed to meet specific user needs.

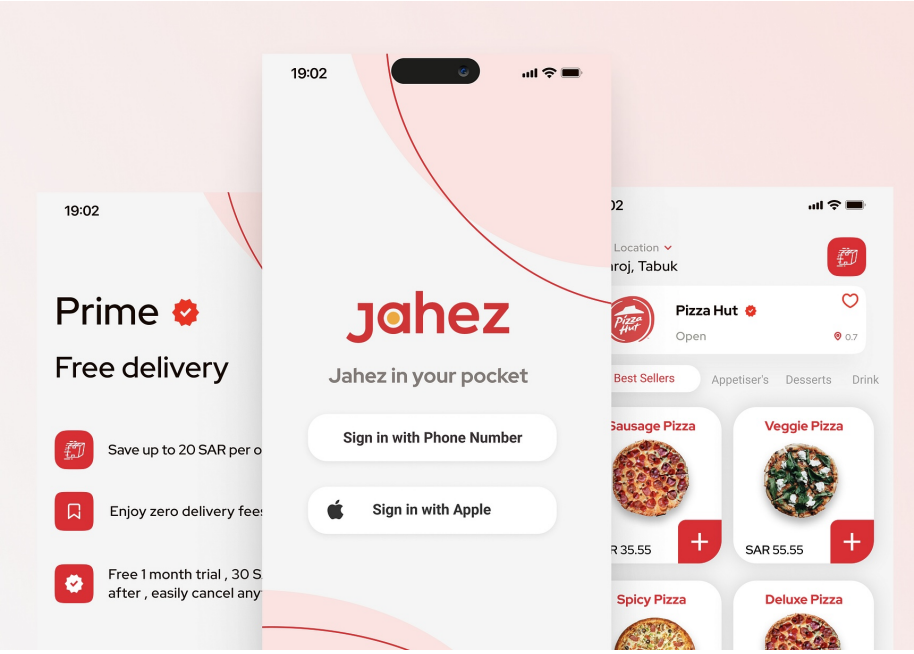


Figure 8: Design Jahez interfaces Delivery App

1. **Customer Interface**:
    - Browse Restaurants: Customers can browse restaurants based on location or personal preferences like cuisine type or restaurant rating.
    - View Menus: Customers can view restaurant menus, including detailed descriptions of each dish, ingredients, and prices.
    - Customize Orders: Customers can customize their orders by adding or removing specific ingredients to suit their preferences.
    - Secure Payment: The app provides multiple payment options, including credit cards and mobile wallets.
    - Order Tracking: Customers can track their order in real-time, from food preparation to delivery.

- Rate and Review: After receiving their order, customers can rate the restaurant and delivery service based on their experience.

2. **Restaurant Owner Interface**:
    - Manage Menus: Restaurant owners can add or modify their menus, update prices, or introduce promotional offers.
    - Handle Orders: They can view and manage incoming customer orders efficiently.
    - Monitor Order Progress: Owners can track the status of orders and communicate with drivers if necessary.
    - Analyze Performance: Restaurant owners can access sales reports and performance metrics to improve their services.
    - Update Restaurant Info: They can update details like operating hours and special offers.
3. **Driver Interface**:
    - Receive Orders: Drivers receive delivery requests in real-time based on their location.
    - Manage Orders: Drivers can accept or reject orders depending on their availability.
    - Navigation Directions: The app provides accurate navigation to both the restaurant and the customer.
    - Update Delivery Status: Drivers can update the status of the delivery, such as "picked up," "on the way," or "delivered."
    - Communication: They can communicate with both customers and restaurants if needed during delivery.
    - Track Earnings: Drivers can view their earnings and track the number of deliveries completed.

3.4 System Architectures

3.4.1 Description for Architecture of Jahez Food Delivery System

The image depicts the architecture of the Jahez food delivery system, which is an example of microservices-based design. The application is divided into several independent services, including restaurant search, ordering, payment, and inventory management. Users (customers, restaurant owners, and delivery drivers) interact through an API Gateway to execute various operations like placing orders, making payments, and tracking orders in real-time. Each service is connected to its own dedicated datastore, ensuring efficiency and high performance.

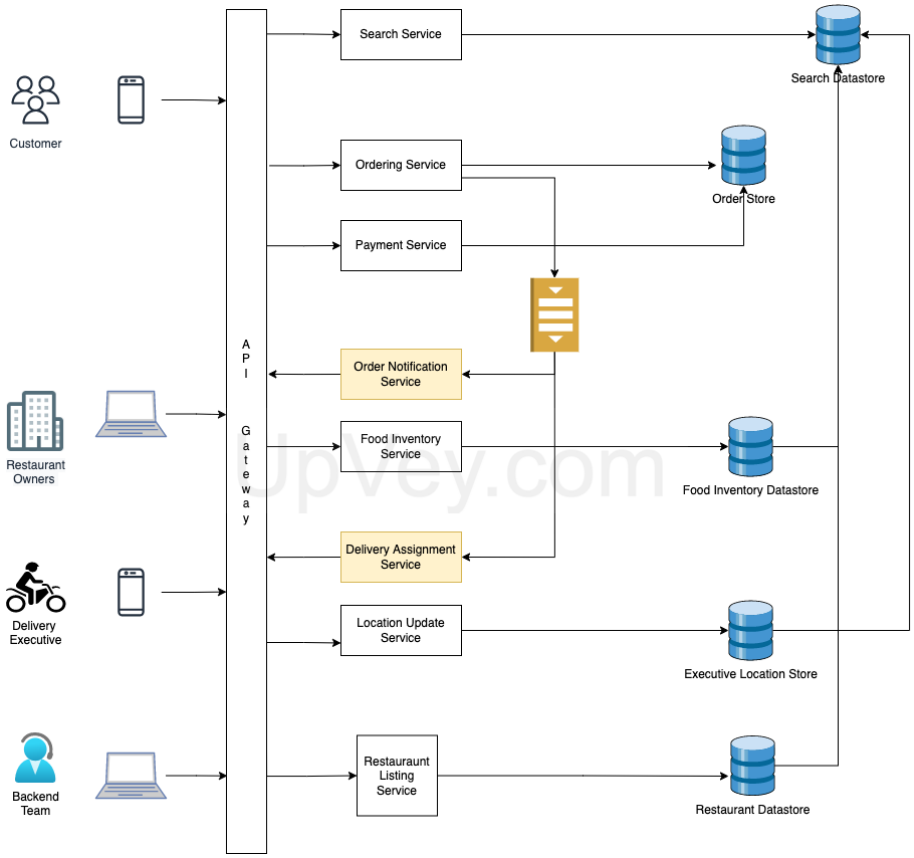


Figure 9: Architecture of the Jahez Food Delivery System

3.4.2 Components of the Jahez Food Delivery System Architecture

(a) **Customer**: Represents the user who uses the Jahez app to search for restaurants and place food orders via their mobile device or other platforms.

(b) **Search Service**: Allows customers to search for available restaurants or dishes in the system. The search data is stored in the Search Datastore.

(c) **Ordering Service**: Manages customer orders by directing them to the chosen restaurant. It is connected to the Order Store to save all order details.

(d) **Payment Service**: Responsible for processing payments for orders through credit cards or other payment methods.

(e) **Order Notification Service**: Sends notifications to both customers and restaurants regarding the status of an order, such as confirmation or status updates.

(f) **Food Inventory Service**: Helps restaurants manage and update their available food inventory on the app. The data is stored in the Food Inventory Datastore.

(g) **Delivery Assignment Service**: Assigns delivery orders to available drivers based on their location and availability.

(h) **Location Update Service**: Tracks and updates the location of delivery drivers in real-time using the Executive Location Store.

(i) **Restaurant Listing Service**: Used by restaurant owners to update their menu, prices, and other restaurant details. This information is stored in the Restaurant Datastore.

(j) **API Gateway**: Serves as the central communication point between customers, restaurants, and delivery drivers, linking all services together and enabling seamless interactions.

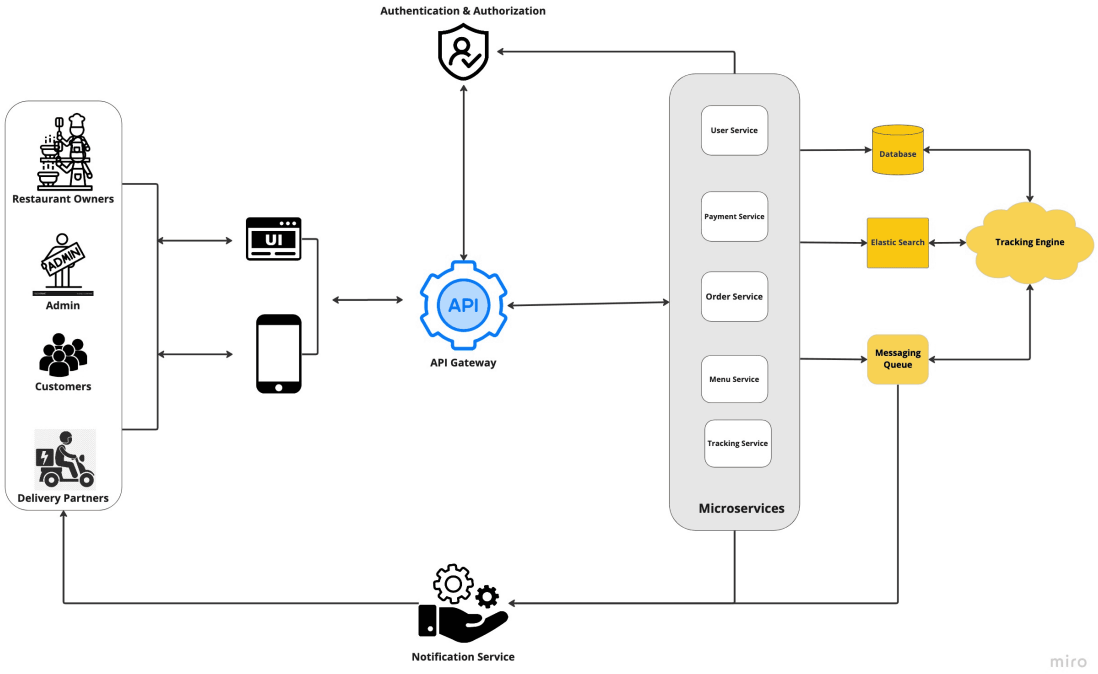


Figure 10: Architecture of a Microservices-Based Food Delivery System

This image illustrates the architecture of a microservices-based food delivery system. The system is structured around an API Gateway that connects various stakeholders (restaurant owners, administrators, customers, and delivery partners) with core services.

Users interact with the system through a User Interface (UI) which communicates with the backend services via the API Gateway. The API Gateway is responsible for routing requests to specific microservices, which include User Service, Payment Service, Order Service, Menu Service, and Tracking Service.

3.4.3 Summary for Architecture of Jahez Food Delivery System

Each component of this architecture operates independently with its dedicated datastore, ensuring speed and security. This structure is designed to provide a seamless, integrated experience for end users, from placing orders to delivery.

Key components of the system also include:

- **Authentication & Authorization**: for securing access.
- **Notification Service**: to update users about their orders or system activities.
- **Tracking Engine, Elastic Search, and Messaging Queue**: to handle real-time tracking and data indexing.
- **Databases**: to support data storage for various system entities such as users, orders, and menu details.

This architecture ensures scalability, flexibility, and seamless integration between all the services to deliver an efficient user experience.

3.5 The Jahez app supports the following operating systems:

1. **iOS:** The app is available for iPhone and iPad. It can be downloaded from the App Store.
2. **Android:** The app is available for Samsung Galaxy and can be downloaded from Google Play.

3.6 Data Base:

The Jahez platform needs to manage large amounts of data, including user information, restaurant menus, orders, and delivery details. Thus, a reliable and scalable database is crucial for the app to function smoothly. The app likely uses a relational database. SQL is used to interact with databases like MySQL, allowing for data management and retrieval.

The image represents the system Architecture of a food delivery application, where all functionalities and subsystems are integrated into a single centralized system. In this model, all processes such as order management, restaurant registration, and driver tracking are encapsulated within one cohesive service connected to a central database.

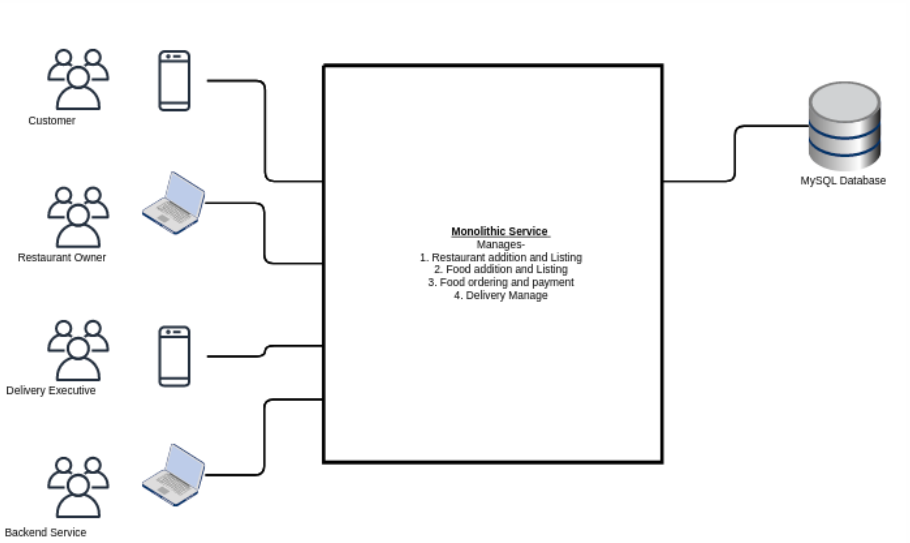


Figure 11: system Architecture for the Food Delivery Application

3.6.1 Components of system Architecture

(a) **Customers**: The end-users who place food orders through the application using their mobile devices. The app displays available restaurants and meals, facilitates payment, and allows tracking of orders.

(b) **Restaurant Owners**: They interact with the system through a dedicated interface to add and manage their restaurants, including listing meals and updating menus. This information is stored in the database for customer access.

(c) **Delivery Executives**: These users utilize the app to receive delivery requests, update order statuses, and confirm deliveries. They provide real-time updates to ensure customers are informed about their order status.

(d) **Backend Service**: This encompasses the technical teams or systems that handle backend operations. This service may include technical maintenance, performance monitoring, and error management.

(e) **Database (MySQL)**: The system relies on a central database, such as MySQL , to store all data related to orders, restaurants, users, and delivery tracking. This database is the primary source of information that every component in the system relies on to perform its functions.

3.7 Advantages of System Architecture

The syste structure combines all functionalities into a single codebase, which initially makes development and management easier. However, this reliance on one unified architecture can lead to challenges in maintenance and scaling as the application grows and the user base increases.

3.8 data models

Model	Attributes
User model	- Names - Emails - Phone numbers - Delivery addresses - Order history - Payment details

Table 3: User Model

Model	Attributes
Restaurant model	- Restaurant names - Locations - Menus - Prices - Ratings - Hours of operation

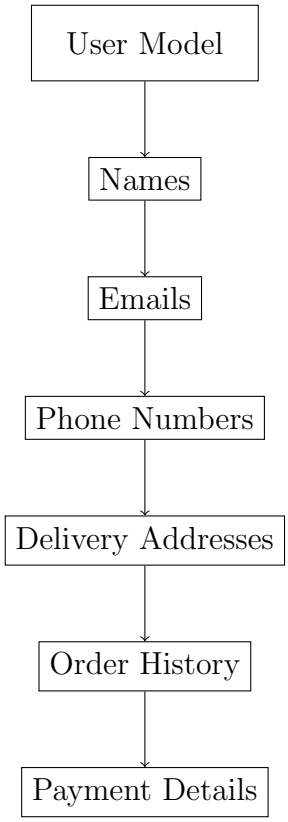
Table 4: Restaurant Model

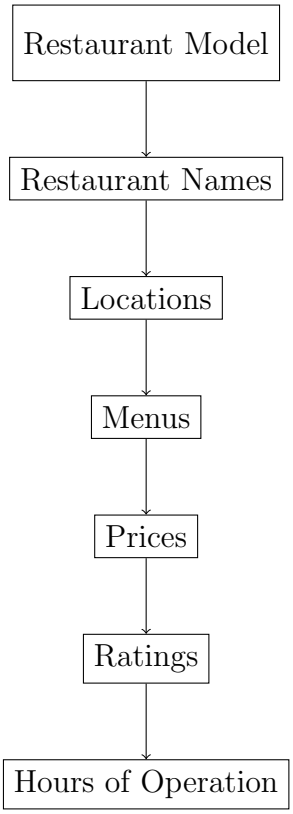
Model	Attributes
Order model	- Ordered items - Order status (pending, in preparation, delivered) - Timestamps

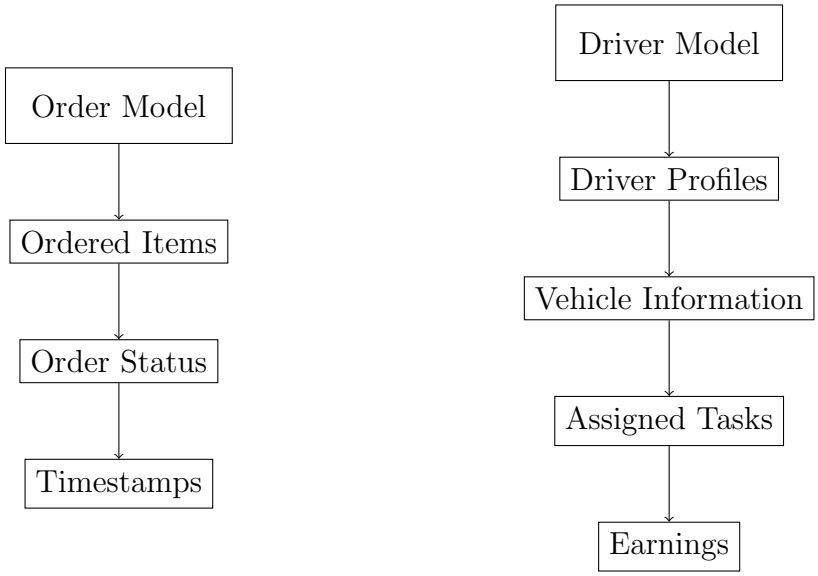
Table 5: Order Model

Model	Attributes
Driver model	- Driver profiles - Vehicle information - Assigned tasks - Earnings

Table 6: Driver Model







3.9 Server:

The server of Jahez is responsible for handling operations between the user interfaces and the database. The app likely uses Node.js or Django as the server framework:

- Node.js is a JavaScript-based runtime environment.
- Django built on Python.

3.10 Cloud Hosting:

- AWS (Amazon Web Services)
- Google Cloud

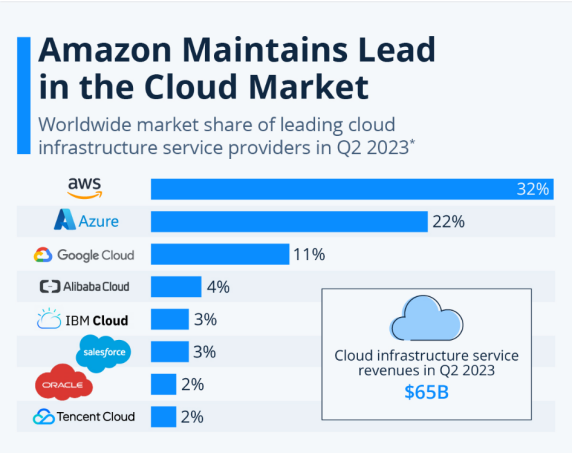


Figure 12: cloud hosting

3.11 Programming Languages:

- **Frontend (User Interface):**
  The mobile apps for iOS and Android are likely built using:
  - JavaScript
  - Dart
- **Backend (Server):**
  - JavaScript
  - Python
- **Database:**
  - SQL

3.12 Conclusion

To run smoothly, the Jahez app needs a well-thought-out system design, reliable data models, and solid technical specifications. The app likely uses cloud services and modern frameworks to handle a large number of users and provide real-time updates. Version control is crucial for managing changes and ensuring smooth collaboration between developers.

All these elements work together to provide a seamless experience for Jahez users, from placing an order to receiving it at their doorstep.

4 References

- Behance.(2023,January1).JahezappUXcasestudy.Behance.https://www.behance.net/gallery/157304757/Jahez-App-UX-Case-Study
- Jahez.(2023,July27).Privacypolicy.Jahez.https://www.jahez.net/SA/privacy-en.html
- JahezGroup.(2021,December).Jahezprospectus.https://jahezgroup.com/wp-content/uploads/2021/12/Jahezen.pdf
- TechGropse.(2023,October4).HowtobuildafooddeliveryapplikeJahez.TechGropse.https://www.techgropse.com/blog/build-a-food-delivery-app-like-jahez/
- FrescoFud.(2023,September19).HowtocloneJahezfooddeliveryapp.FrescoFud.https://www.frescofud.com/blog/post/how-to-clone-jahez-food-delivery-app