

## PROCESS

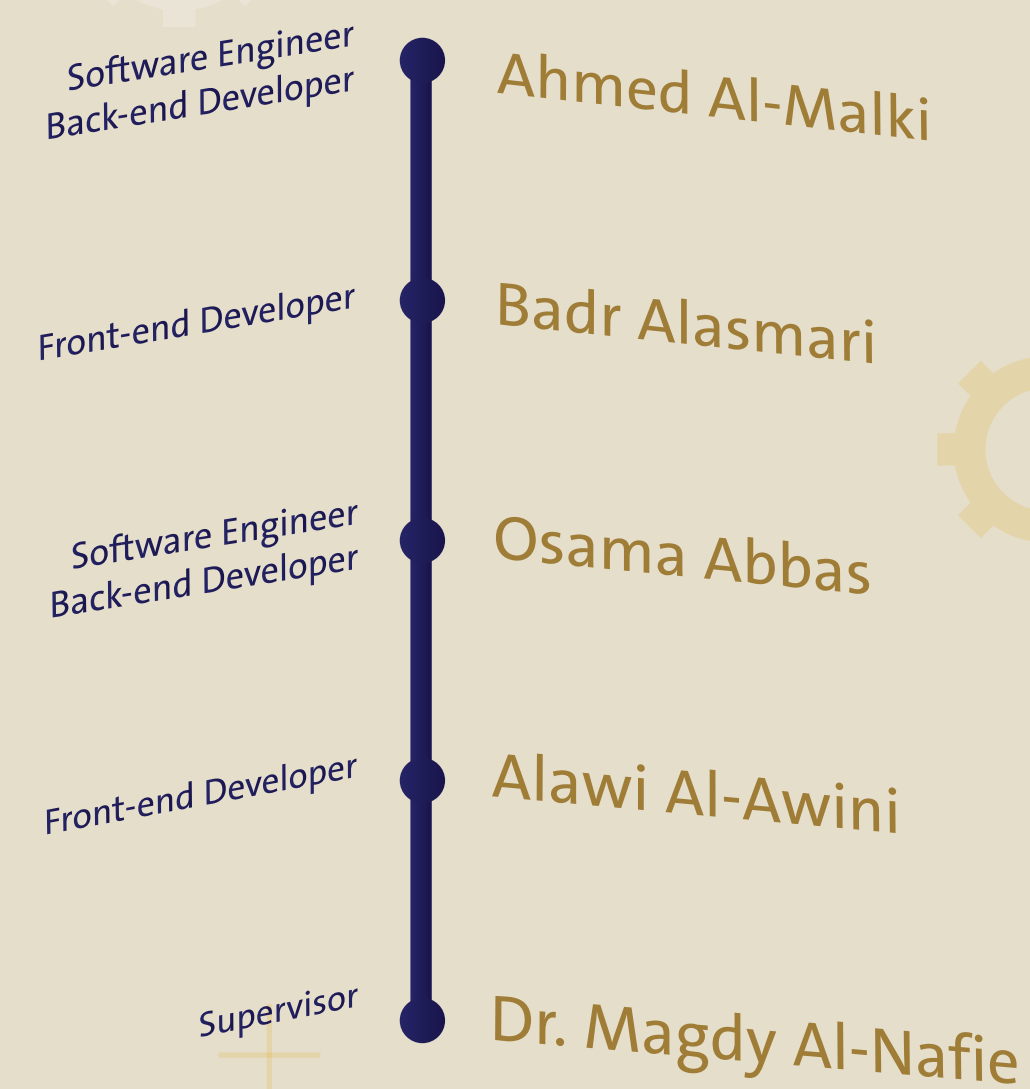


# المجمع | Almujmma

It Brings You A Lot

A Unified Platform Connecting Key Local Markets for Seamless Household Shopping

## TEAM

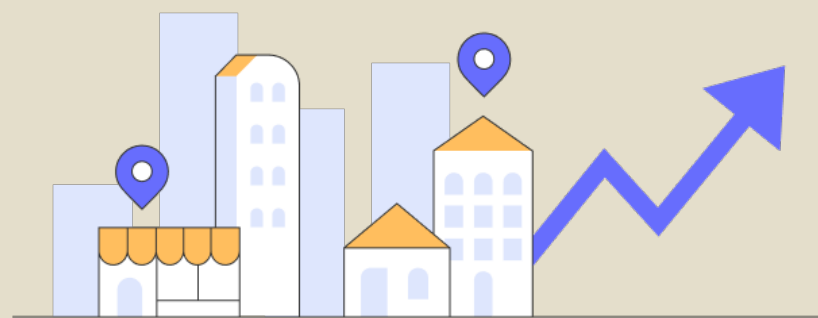


## Background

1 Al-Mujamma is a unified e-commerce platform designed to streamline online shopping by integrating multiple supermarkets and household stores into a single, user-friendly system.

The platform allows customers to browse products, compare prices, and place orders efficiently.

A key feature is the introduction of "Items Collectors"—in-store personnel who facilitate order preparation for delivery or self-pickup, enhancing speed and convenience.



As of 2024, there were over 41,100 markets in Saudi Arabia, only a handful of them have online platforms



## System Architecture

3 Client-Server architecture

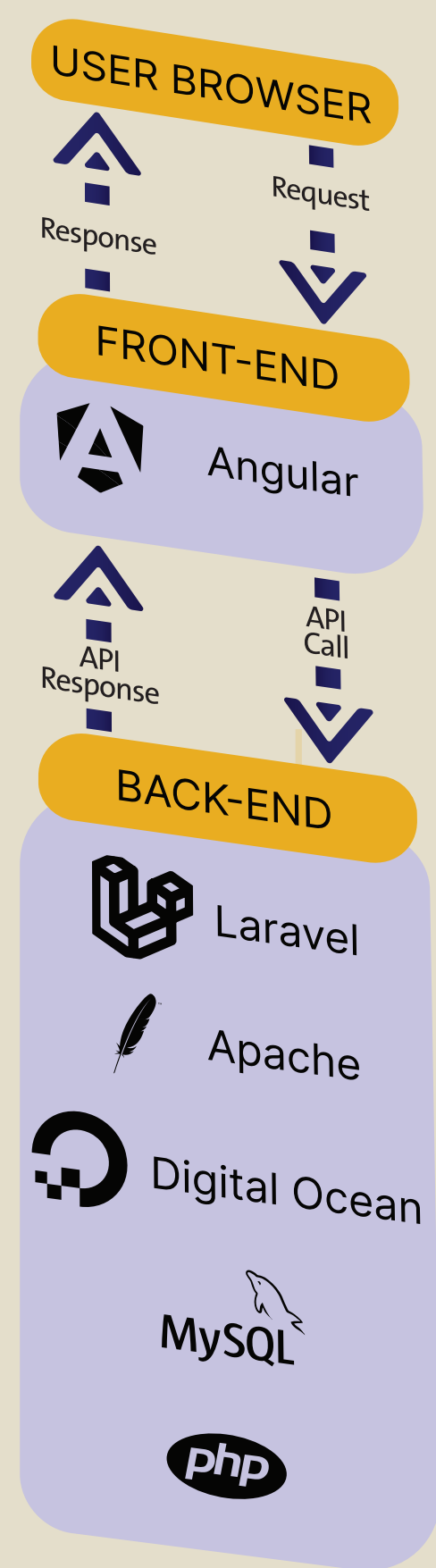
Angular (frontend) manages the UI and user interactions.

Laravel (backend) serves as the API, handling business logic and database operations.

Communication between frontend and backend occurs via RESTful APIs.

Layered (N-Tier) architecture

An evolution of the MVC pattern, ensuring clean, scalable code and easier debugging.



Controllers: Manage requests and responses, calling services.

Services & Action classes: Contain business logic, with Action classes focusing on single tasks.

The backend system includes 283 services, with around 150 being Action classes.

Models: Define database tables, attributes, and relationships using Laravel's Eloquent ORM.

## Methods

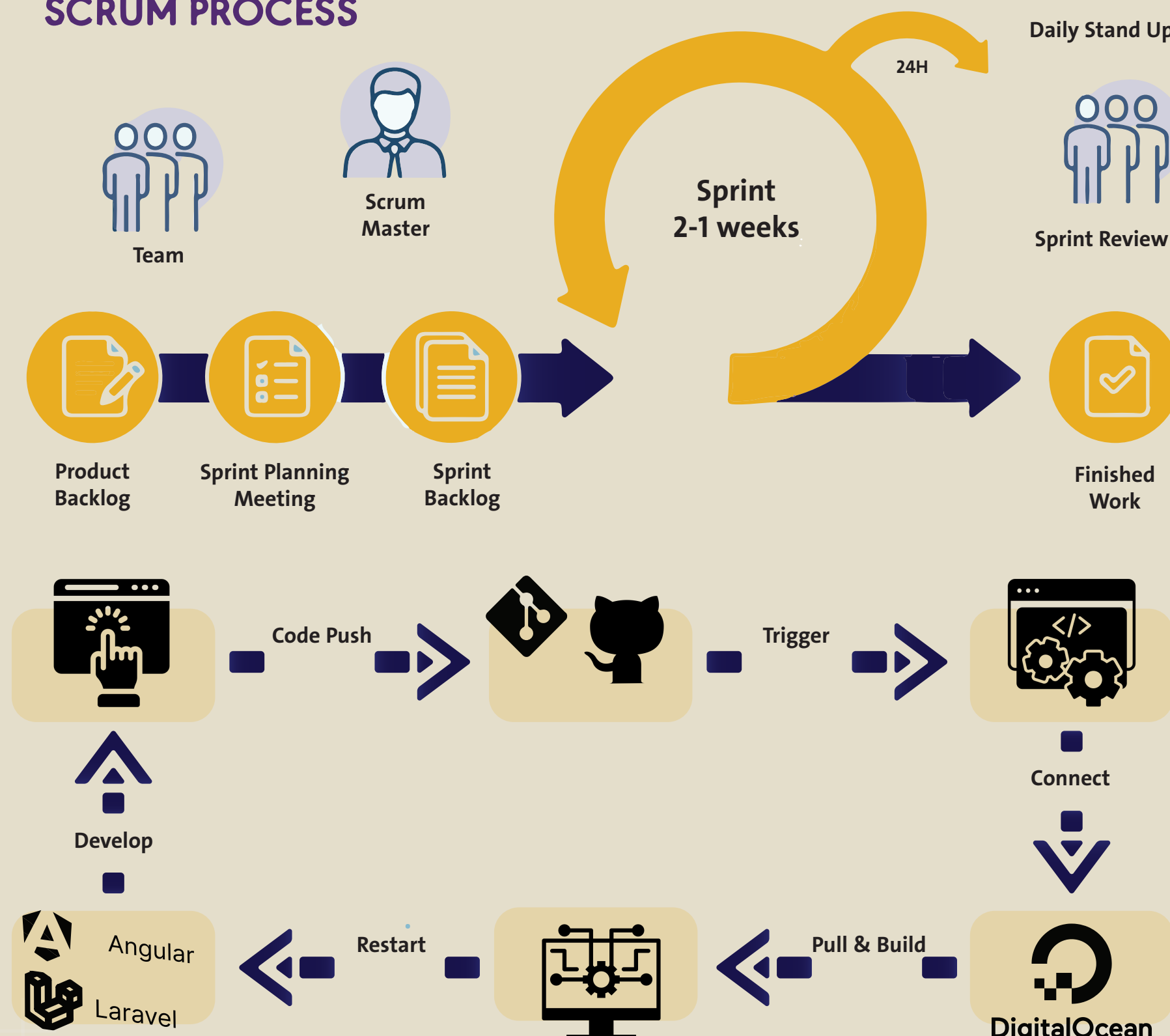
2 Utilized a modified Scrum Agile frame-work for web platform development.

Leveraged Scrum's flexibility, iterative approach, and cross-functional team collaboration

Employed Git and GitHub as essential version control tools.

Utilized GitHub's advanced features, in clouding GitHub Actions, for Continuous integration and Continuous Deployment (CI/CD).

### SCRUM PROCESS



## Conclusion

4 Al-Mujamma is poised to revolutionize the online shopping experience by integrating multiple markets, improving operational efficiency, and offering customers greater flexibility in their purchasing decisions. By leveraging modern technology and innovative features, the platform enhances convenience for both consumers and vendors, fostering a seamless and scalable e-commerce ecosystem.

