



**Faculty of Computers &
Informatics**



Benha University

Salla App

Computer Science Departement,

Project Team

- 1- Ahmed Mohammed Saeed Mohammed.
- 2- Adham Ashraf Ebrahim Elganzoury.
- 3- Ahmed Mohammed Kassem Mohammed.
- 4- Eslam Hamdy Ragab Abdullah.
- 5- Ayat Ashraf Mohammed Esmail
- 6- Alaa Abdelmaqsoud Mohammed Zahra.
- 7- Mona Mohammed Hamdy Gomaa.
- 8- Manar Hamada Elsayed Mahrous.

Under Supervision of

Dr. Amr Nagy
Eng. Gamal Essam
Eng. Mohammed Ebrahim
Eng. Hossam Fares

Introduction

Welcome to a transformative shopping experience brought to you by our **Salla** Mobile Application. In an era defined by digital innovation and evolving consumer needs, our application stands at the forefront of revolutionizing how you shop and engage with products and services. Inspired by industry leaders like Amazon, we've crafted an app that seamlessly blends the convenience of e-commerce with the familiar, user-friendly experience of a physical marketplace.

We've developed an unparalleled online shopping experience to redefine the way you discover, explore, and purchase your favorite products. Get ready for a journey that combines cutting-edge technology with user-friendly design, all tailored to meet your shopping needs.

As technology continues to shape the way we live, our mobile application serves as your gateway to a world of limitless possibilities. Whether you're a discerning shopper seeking a diverse array of products or an aspiring entrepreneur eager to showcase your offerings, our application is designed to meet your every expectation.

Objective

Our App purpose is to provide our customers with quality products and the app invites all individuals who love shopping in any form to be a part of them online.

Objective of our app:

Innovation at Every Click: Embrace the future of online shopping with Sala App, where innovation and convenience converge.

Anywhere, Anytime Shopping: Whether you're at home or on the go, Salla is accessible on your preferred device, bringing the store to your fingertips.

Efficient and Personalized Shopping: We strive to enhance the efficiency of your shopping experience through smart features such as smart shopping lists, and real-time inventory updates. Tailoring the app to your preferences, we aim to make each visit efficient and enjoyable.

Security and Trust: Building upon the trust established by renowned retailers, we prioritize the security of your transactions and personal information. Our robust security measures ensure a safe environment for conducting transactions, building a foundation of trust between users and our app.

Requirements

Functional Requirements

Functional requirements are the primary requirements that are to be fulfilled by the Website. Their fulfillment allows the user to use the Website. Define what a product must do, what its features and functions are. The proposed system provides features for different types of users. The following subsections illustrate functional requirements to be fulfilled by the proposed system.

1.1 Register

- After filling in the required data, the Visitor can register himself/herself in our proposed app.

1.2 Login

- Admin/Member will be able to Login into the system with his unique username and password.

1.3 Display product catalog

- Display a well-organized product catalog with categories and subcategories.
- Provide detailed product information, including images, descriptions, prices, and specifications.

1.4 Search and Navigate

- Implement search functionality with filters.
- Enable users to browse products easily through intuitive navigation.

1.5 Add/Edit/Delete Cart

- Allow users to add, edit, and remove products from their shopping carts.
- Display the total order amount and itemized details in the cart.

1.6 Add/ Delete WishList

- Add and delete favorite products.

1.7 view recently List viewed

- Allow users to view their last viewed Products history.

1.8 Manage Account

- Allow users to update their profiles and manage account settings.
- Provide a password recovery mechanism.

Non Functional Requirements

2.1 Usability

- The interface is designed to be user friendly.
- Rapid move inside the app.
- App available 24 hours.

2.2 Efficiency

- The app should handle the load without degradation of service.
- The app shall support an arbitrary number of active requests, that is, no requests shall be lost under any circumstances.

2.3 Performance

- The app responds fast to orders from more than one user.

2.4 Scalability

- The app can handle a maximum number of users, terminals, transaction without performance degradation (Capacity).

2.5 Security

- Visitors have viewed the app without any details of it.
- Admin only person must access the app.
- Sign up the process include a password.
- Prevent data Manipulation.

Our App Screens (15) :

- **Users App**

1- Sign up

2- Login

3- Forget Password

4- Home Screen

5- Search

6- Product Details

7- Cart

8- Profile

9- Wishlist

10- Placed Orders

11- Viewed Recently

- **Admin App**

12- Dashboard Screen

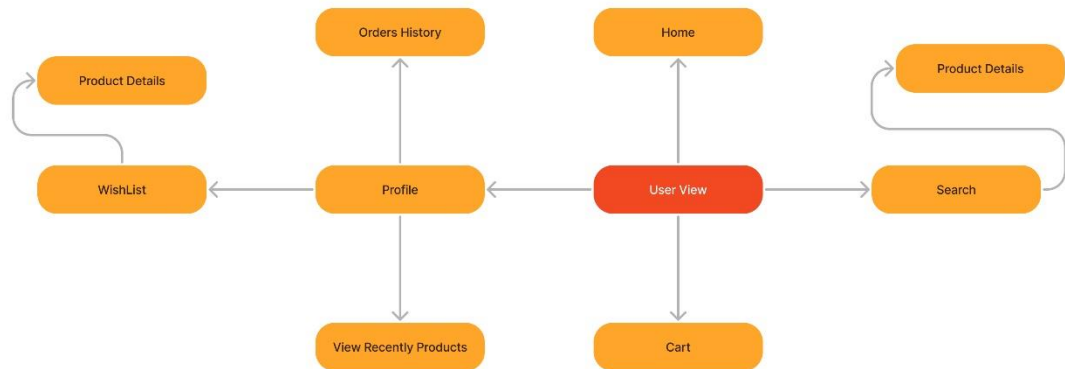
13- Add Product

14- Edit Product

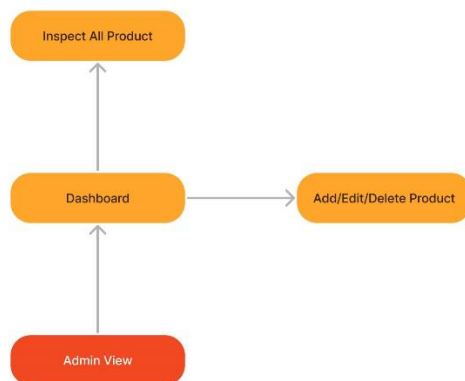
15- Inspect Products

Site Map

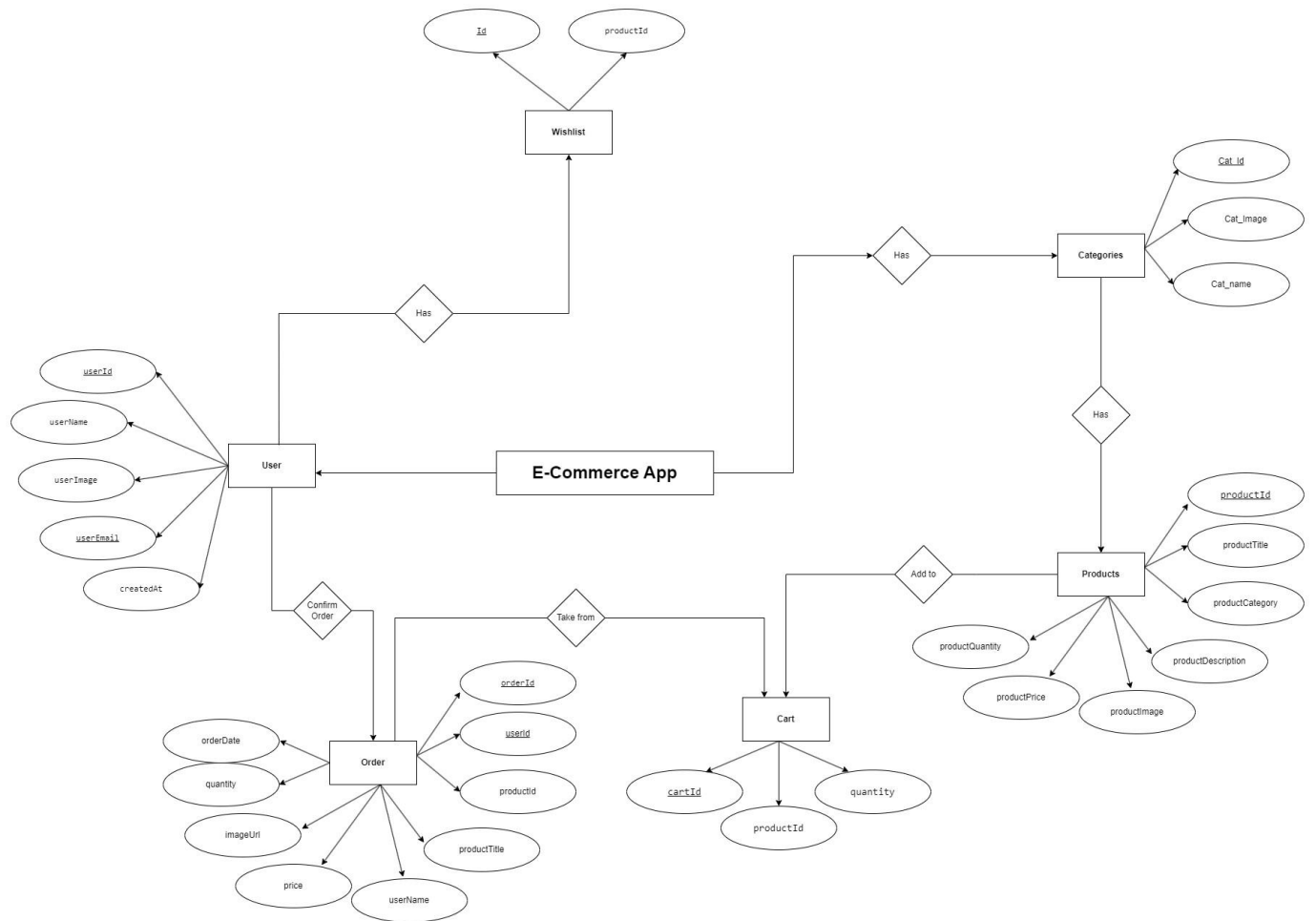
- User Site Map



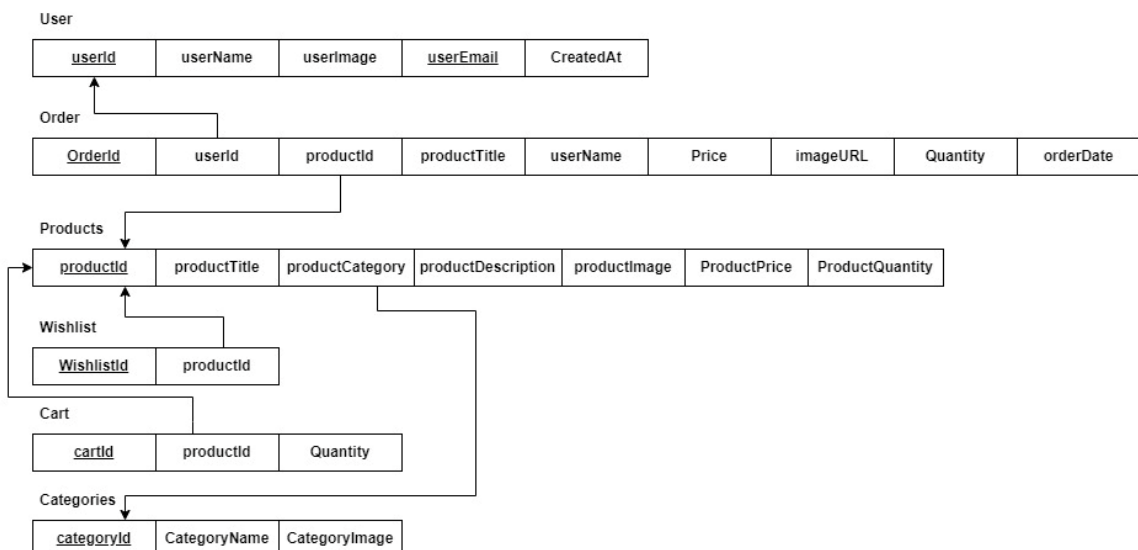
- Admin Site Map



ERD (Entity relationship diagram)

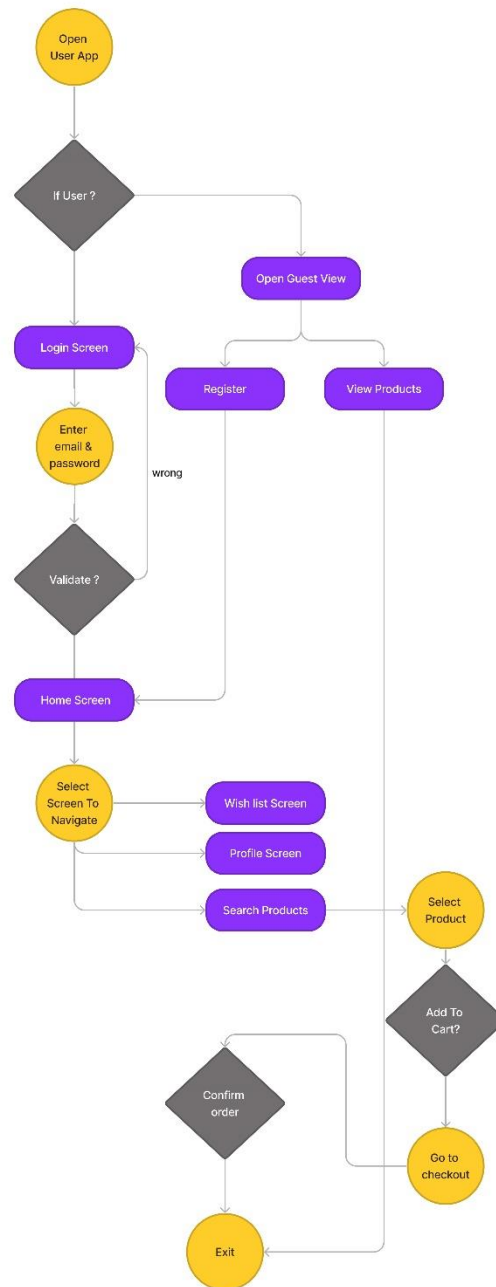


Database Mapping

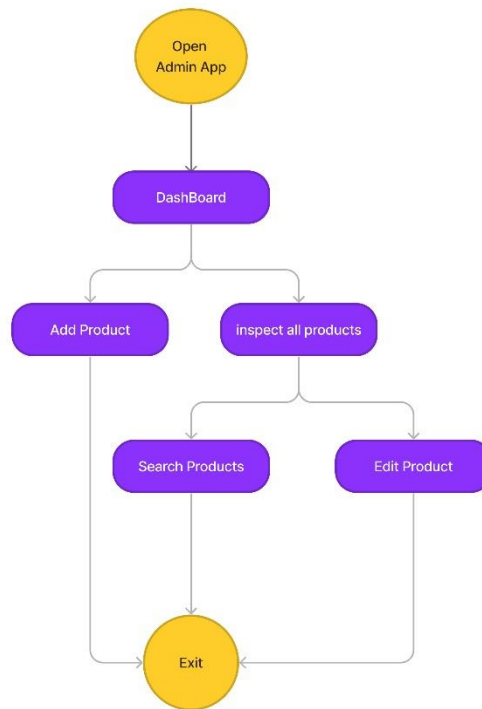


Flow Diagram

- User flow



- Admin flow



Packages Used

- **card_swiper: ^3.0.1**
description: A Flutter package for creating card swipers with various customization options.
- **cloud_firestore: ^4.12.0**
description: Flutter plugin for Cloud Firestore, a flexible, scalable NoSQL cloud database.
- **cupertino_icons: ^1.0.2**
description: Default icons for Flutter based on the Cupertino design language.
- **dynamic_height_grid_view: ^0.0.4**
description: A Flutter package for creating a grid view with dynamic item heights.
- **fancy_shimmer_image: ^2.0.3**
description: An image loading widget with a shimmer effect for Flutter applications.
- **firebase_auth: ^4.12.0**
description: Flutter plugin for Firebase Authentication, supporting email & password, Google Sign-In, etc.
- **firebase_core: ^2.14.0**
description: Flutter plugin for Firebase Core, required for Firebase services integration.
- **firebase_storage: ^11.4.0**
description: Flutter plugin for Firebase Cloud Storage, providing access to upload and download files.
- **flutter_iconly: ^1.0.2**
description: A package that provides a set of high-quality icons for Flutter applications.
- **fluttertoast: ^8.2.4**
description: Flutter package for showing toast notifications in your app.
- **google_sign_in: ^6.1.5**
description: Flutter plugin for Google Sign-In, allowing users to sign in with their Google accounts.
- **image_picker: ^1.0.4**
description: Flutter plugin for picking images from the device's gallery or camera.
- **ionicons: ^0.2.2**
description: Flutter package that includes the Ionicons icon set for use in your app.
- **provider: ^6.1.1**
description: A simple and effective state management solution for Flutter applications.
- **shared_preferences: ^2.2.2**
description: Flutter plugin for reading and writing simple key-value pairs using shared preferences.
- **shimmer: ^3.0.0**
description: Flutter package for adding shimmering effects to various UI components.