Introduction

Esemka Commerce IT Software Solutions for Business

EsemkaCommerce is an ecommerce application that makes buying and selling transactions easier for customers. Customers can see the products being sold along with the available stock. Admin can also manage product data that you want to sell.

Contents

In this test project there are some files and usable resources:

1. EsemkaCommerce TP.pdf (Test project file)

2. EsemkaCommerce Demo (Wireframe demo folder)

3. EsemkaCommerce_Style (Style folder)

4. EsemkaCommerce_DB.sql (Microsoft SQL Server database file)

Project Description & Tasks

When developing the project, ensure all the deliverables meet the general requirements provided by the project designers:

- Project Criteria:
 - o The project name should be "DESKTOP [XX]", where XX is your PC number.
 - Time management is a crucial factor for the success of this project. So, manage your time wisely and submit all your works on time.
- Application User Interface:
 - o Use the style guide provided consistently in the entire project.
 - o The application wireframe is already provided by the UI designer.
 - You are allowed to modify the application interfaces as long as it doesn't interfere the business and application flow.
 - The scoring will be focused on the features of the application.
 - Please provide scrollbar when the content doesn't fit into the container.
- Validation and Error Messages:
 - The application must runs well with a proper validation and shows a useful error messages to the user.
 - Analyze the required validation(s) that is/are needed in the application. This is one of the scoring criteria for your analytical skills for the project.
 - o Any specific validation will be given in the project description.

Instructions for Competitors

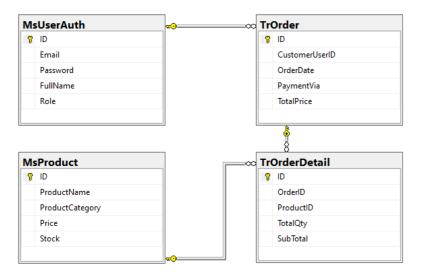
1. Import the Database

Import the database from the ".sql" files that already given to you. This will be the only database that you will be working on. You are **prohibited** to change any schema on the database.

2. Develop the application and submit the project

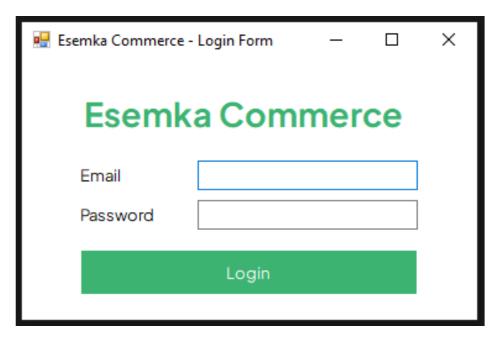
Develop the desktop application based on the description in the next section. And submit all your projects to the jury.

Entity Relationship Diagram



To make it easier for you to understand the database structure, Database Designers from EsemkaCommerce has provided you an Entity-Relationship Diagram (ERD). This diagram will explain the concept and representation of the data model that is used in the database.

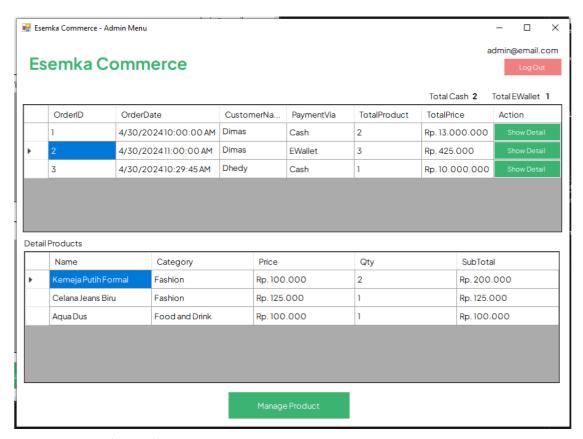
1. Login Form



This is the first form that will be used by the user to login to the application.

- Users can login to the application by filling their email and password.
 - If the combination exists in the database, check the Role. Then if role is Admin screen
 will be directed to Admin Main Form but if role is Customer screen will be directed to
 Customer Main Form
 - o If the **combination doesn't exists** in the database, **let the user know**.
- Validate all field with shown message.

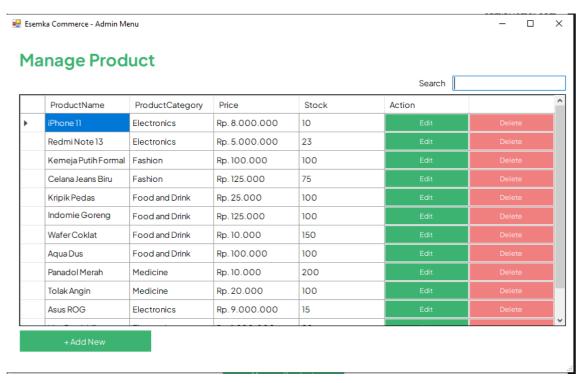
2. Admin Main Form



This is the main form of Admin. Admin can view the ordered transaction list, Manage Product (View, Add, Edit, Delete) and logout from the application.

- Show the Admin Email.
- Show the Total Order with Payment Cash & EWallet.
- Display the Order Data list
 - o Total Price must shown with Rupiah Separator format (Rp.XXX.XXX)
 - When user clicks on the Show Detail button, the Details Order data will be shown by selected Order ID.
 - Product Price and SubTotal must shown with Rupiah Separator format (Rp.XXX.XXX)
- When user clicks on the Manage Product button, the Manage Product Form will be shown.
- When user **clicks** on the **Logout** button, the **Admin Main Form** is closed then **Login Form** will be shown.

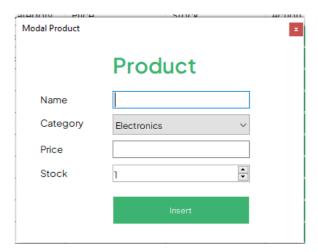
3. Manage Product



This form will be used for View, Add, Edit, Delete, Search the Product Data.

- Display the **Product Data** list.
 - Product Price must shown with Rupiah Separator format (Rp.XXX.XXX)
 - O When user clicks on the Edit button, the Modal Product will be shown by selected Product
 - When user clicks on the Delete button, show message "Are you sure for delete this Product?" and if user click OK the Product will be deleted on database then the Product Data list refreshed.
- When user clicks on the Manage Product button, the Manage Product Form will be shown.

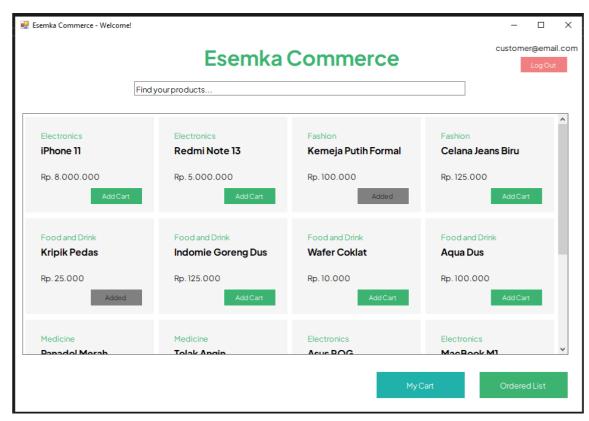
4. Modal Product



This form will be used to add or edit **Product**. User must be click **New Data** or **Edit** on **Manage Product** form.

- When user open **Modal Product** from **Product Data** list on **Manage Product** form, field will be filled by selected **Product**
- When user open Modal Product from Add New on Manage Product form, all field will be empty.
- The Product Category data with (Electronics, Fashion, Food and Drink, Medicine).
- When user clicks on the Save (Insert / Update) button, Validate it with:
 - o All field cannot be **Empty**.
 - Name must be 5 25 characters.
 - o Price only accept number.
 - O Stock must be minimum 1 and maximum 1000.
- When user **Validate** is correct:
 - Show message "Completed Save Data!" then Direct users back to their Manage Product.
 - Data will be saved to database.
 - O Close the **Modal Product** after the data is saved to database.

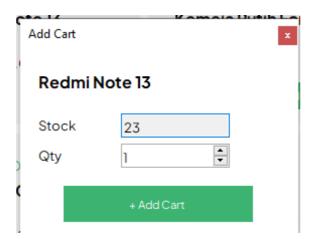
5. Customer Main Form



This is the main form of Customer. Customer can order Product (add to cart), view list of cart, view list of ordered product and logout from the application.

- Show the Customer Email.
- Display the Product Data list that made by the admin.
 - o **Product Price** must shown with **Rupiah Separator** format (Rp.XXX.XXX)
 - When user clicks on the Add Cart button, the Modal Add Cart will be shown by selected Product.
 - When **Product** has been added, **Add Cart** button will be show **"Added"** and **disabled**.
- Display the list of Product based on Product Name or Product Category when user typing in Search Box
- When user **clicks** on the **My Cart** button, the **My Cart Form** will be shown.
- When user clicks on the Ordered List button, the Order List Form will be shown.
- When user **clicks** on the **Logout** button, the **Customer Main Form** is closed then **Login Form** will be shown.

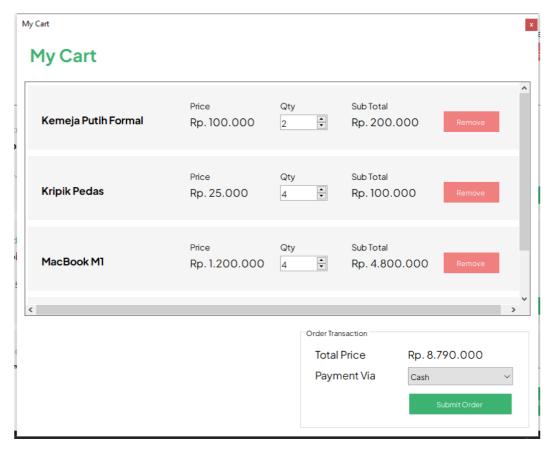
6. Modal Add Cart



This form will be used to add **Product** to **My Cart**.

- When user open **Modal Add Cart** from **Product Data** list on **Customer Main Form** form, field will be filled by selected **Product**
- When user clicks on the +Add To Cart button, Validate it with:
 - O Qty cannot be higher than Stock.
- When user Validate is correct :
 - o Data will be added to **global variable** (for list at **My Cart Form).**
 - O Close the Modal Add Cart and refresh the Product Data list.

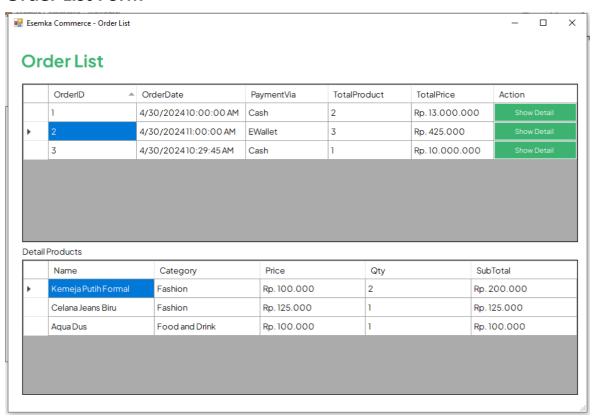
7. My Cart Form



This form will be used to submit **Order** from **Cart** list.

- When user open My Cart Form, Cart Data list will be filled by list of Added Product from Customer Main Form.
 - When user clicks on the Remove button, shown message "Are you sure for remove this product?" and if user click OK the Cart will be removed then the Cart Data list, Product Data list on Customer Main Form refreshed and Total Price will be calculate.
 - When user change the **Qty**, validate **Qty** cannot be higher than **Stock.** If **Validate** is correct **Total Price** will be calculate.
- Show the Total Price with Sum of SubTotal from Cart Data list.
- Show the Payment Via with ("Cash", "EWallet").
- When user clicks on the Submit Order button, Validate it with:
 - Cart Data list cannot be empty.
- When user **Validate** is correct:
 - O Show message "Order Completed!" then Direct users back to their Customer Main Form.
 - o Stock of Product on Order Data will be deduct based on Total Qty submited.
 - O Data will be saved to database.
 - O Close the My Cart Form after the data is saved to database.

8. Order List Form



This form will be used to view Ordered Data.

- Display the Order Data list
 - o **Total Price** must shown with **Rupiah Separator** format (Rp.XXX.XXX)
 - When user clicks on the Show Detail button, the Details Order data will be shown by selected Order ID.
 - o **Product Price** and **SubTotal** must shown with **Rupiah Separator** format (Rp.XXX.XXX)