FPT ACADEMY INTERNATIONAL

FPT – APTECH COMPUTER EDUCATION

# KeyKiosk

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**Semester:** *II*

**Batch No:** *T5.2306.E1*

**Group No:** *01*

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***Month**: 04 **Year**: 2024*

This is to certify that

**Mr.** **NGUYỄN TIẾN ĐẠT**

**Mr.** **NGUYỄN THANH HẬU**

**Mr.** **PHẠM TUYÊN**

**Mr.** **NGUYỄN HOÀNG THÁI**

Have successfully Designed & Developed

# KEYKIOSK

Submitted by:

**Mr. LE THANH NHAN**

Date Of Issue:

Authorized Signature:

# Content

Content

Acknowledge

Synopsis

Review1 1-6

Review2 8-17

Review3 ..... 19-38

Testting Document .....39

Final Checklist .....40

Tasksheet .....41

# Acknowledge

As we understand that the Project is a step-by- step learning environment that closely simulates the class-room and Lab based learning environment into actual implementation. It is a project implementation at your fingertips!! An electronic, live juncture on the machine that allows you to.

- ✓ Practice step by step i.e. laddered approach.
- ✓ Build a larger more robust application.
- ✓ Usage of certain utilities in applications designed by the user.
- ✓ Single program to unified code leading to a complete application.
- ✓ Learn implementation of concepts in a phased manner.
- ✓ Enhance skills and add value.
- ✓ Work on real life projects.
- ✓ Give a real life scenario and help to create applications more complicated and useful.
- ✓ Mentoring through email support.

We would like to send a great thank you to our professor and other students for the adorable support during the time in the project.

Beside several mistakes we had made in the project, we hope to have more opportunities to widen our knowledge in the web developing world.

We also thank you so much for your information and the “demo” project from India APTECH to help us get more reality experience in this project. Since we have gained more experience from this project, we will not stop learning anything as much as we can to be more successful in the future.

Your Sincerely,

Team Group 01.

# Synopsis

The Objective of this program we aim is to give a sample project to work on real life projects. These applications help us build a larger more robust application.

The objective is not to teach us front-end or back-end technology but to provide us with a real life scenario and help us create basic applications using the tools.

Hence, we can revise the chapters before we start with the project.

This project is meant for students like us who have completed the module of Semester II, as well as special subjects those are Java and C#. These programs should be done in the Lab sessions with assistance of the faculty if required.

The website (in this project) is a world that brings everything about the software account into your experience.

It is very essential for us that will have a clear understanding of the subject. We think we should go through the project and solve the assignments as per requirements given.

# Review 01

# Problem Definition

In the era of digital transformation, the landscape of online entertainment and service platforms has expanded significantly, leading to a growing demand for account-based transactions. This trend has sparked interest in developing software solutions to facilitate the buying and selling of accounts across various platforms such as Netflix, Spotify, Zoom, and even AI chat services like ChatGPT.

The problem at hand revolves around creating a software solution, termed "KeyKiosk," designed to facilitate the exchange of accounts securely and efficiently.

This entails developing a JavaFX-based application that provides users with a platform to trade accounts for various online services.

Based on the need stated in the Project Overall, we design an application that will

provide the key features and functionalities as the followings:

The Module of Admin and Client:

1. Admin:

- ✓ Account Management (Managing system account statistics).
- ✓ Member Management (Customer management).
- ✓ Area Management (Employee operating area).
- ✓ Product Management (Managing products).
- ✓ SoftwareAccount(Software account management).
- ✓ SoftwareLicenseKey(Activation key management).
- ✓ Orders(Manage orders).
- ✓ Dashboard(Sales statistics).

2. Seller:

- ✓ Login/Register.
- ✓ Products.
- ✓ Add Member (Customer)
- ✓ Create Orders.
- ✓ DepositHistory.
- ✓ ViewOrderHistory(Order History).
- ✓ Logout.

# Customer Requirements Specifications

## I. CRS/Requirements Specifications

**Seller Undertaken:**

1. List of inputs to the system
   - *Register customer data.*
   - *Product data.*
   - *Order data.*
2. List of outputs expected from the system
   - *Processing customer data registration.*
   - *Processing product data.*
   - *Search products from the database by category, product type...*
   - *Processing customer orders.*
3. Overview of processes involved in the system
   - *Notification of customer information registration results.*
   - *Display product information.*
   - *Notify the order of results.*
   - *Results of adding new product.*

**Admin/Project Undertaken:**

1. List of inputs to the system
   - *Account role data.*
2. List of outputs expected from the system
   - *Processing data and accounts*
3. Overview of processes involved in the system
   - *Employee account role information.*

**Hardware and software required for implementing the project**

| | **Prepared by (Student)** | **Approved by (Faculty)** |
|---|---|---|
| | **Project Group No**:01 | LE THANH NHAN |
| **Signature** | | |
| **Date** | | |

1. *Operating system: Windows 10 higher.*
2. *Hardware: CPU core with RAM 2 Gigabytes or more.*
3. *Unicode fonts: Arial, Tahoma, Lucida Console, Times New Roman, etc.*
4. *Other requirements: Active internet connection*

# II. CRS/Customer Acceptance Criteria

| S.No | Customer's Acceptance Criteria |
|---|---|
| 1 | Given Administrator: |
| 2 | + When managing accounts, then they can view, add, edit, delete an account from the list |
| 3 | + When managing product categories, then they can view, add, edit, delete a product category from the list |
| 4 | + When managing product types, then they can view, add, edit, delete a product type from the list |
| 5 | + When managing products, then they can view, add, edit, delete a product from the list |
| 6 | + When managing software activation keys, then they can view, add, edit, delete an activation key from the list |
| 7 | + When managing banking transactions, then they can view, add, edit, delete a banking transaction from the list |
| 8 | + When managing the dashboard, then they can view sales statistics |
| 9 | Given Customer: |
| 10 | + When adding products to the cart, then they can add selected products to their shopping cart |

# III. Project Plan

1. Project Details

+ 1. Project Details
  Name of the Client: KeyKiosk

+ Date of Project Plan:
  13/04/2024

+ Project Vision/Objectives: Keykiosk
  To modernize Keykiosk operations, enhancing efficiency in internal management and external transactions. Keykiosk requires a Desktop Application to oversee staff accounts with specific roles and manage customer lists along with their orders.

+ Scope:
  The Desktop application for Keykiosk includes all necessary algorithms and data to provide administrators with specific roles access to the list of customers and products. Additionally, it also features functionality for placing orders to purchase products through the application. This encompasses complex data related to other data sources.

+ Our understanding of the client organization:
  KeyKiosk is one of the leading businesses in Asia. Their field of operation includes trading and supplying a variety of online accounts across multiple platforms. These services are utilized not only by individual users but also by other organizations in the process of creating and managing accounts.

+ Project Organization with Responsibilities and Authorities:
  - *Project Team Leader (PTL)*

2. Project Initiation/Requirement Documents
   - *Design Documentation*
   - *Installation Guide*
   - *User Guide*

3. Deliverables
   - *Design Documentation*
   - *Installation Guide*
   - *User Guide (include of maintenance Manual)*
   - *Source Code*

4. Project Dependencies
   - *New technology by JavaFX*

5. Major Project Milestones
   - *Review 01*
   - *Review 02*
   - *Review 03*

6. Quality Plan

+ Review Activities:
   - *Review meeting*
   - *Development meeting*

+ Testing Activities:
   - *Final meeting*

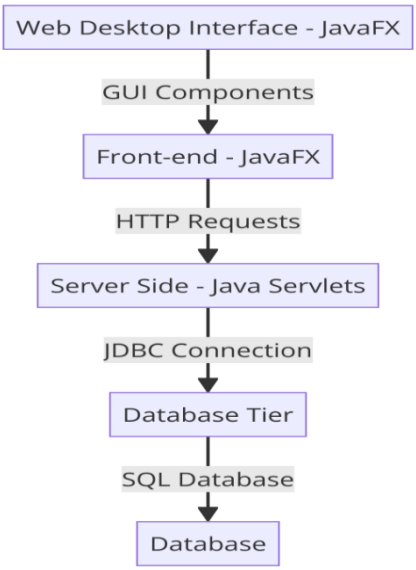
+ Backup and recovery strategies:
+ Review Activities:
   - *Review meeting*
   - *Development meeting*

+ Testing Activities:
   - *Final meeting*

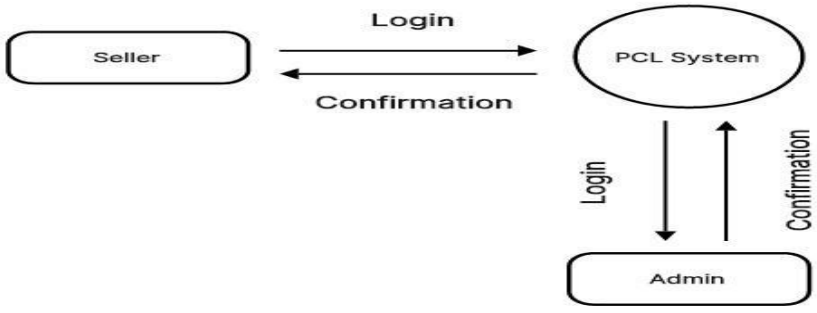
# Review 02

# Architecture and design of the Application

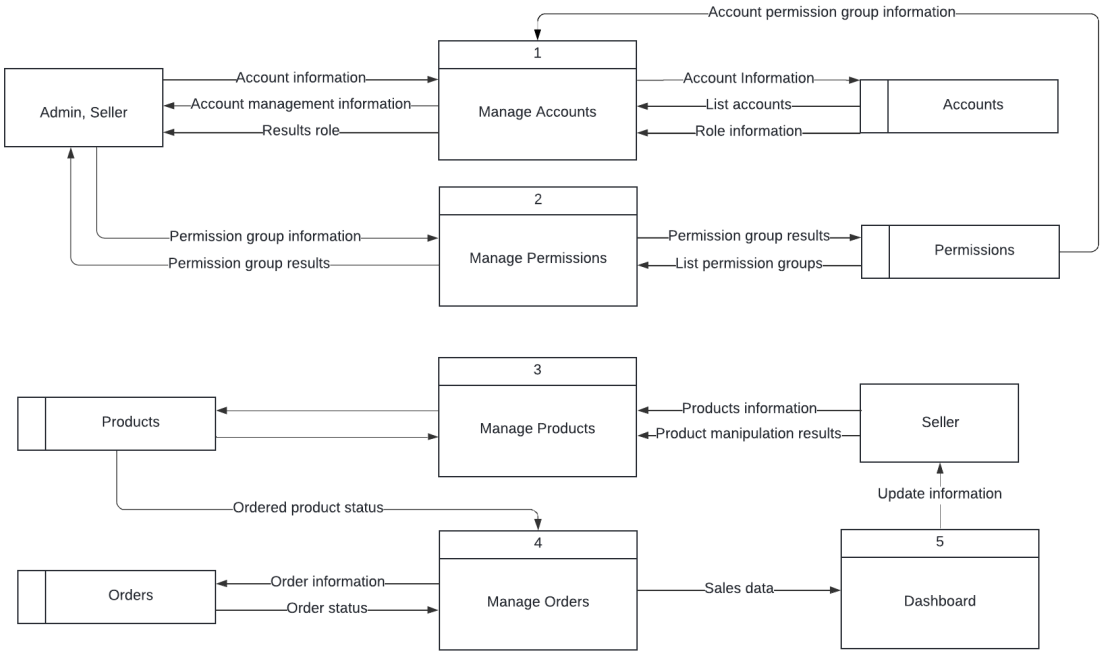
## I. Application Architecture

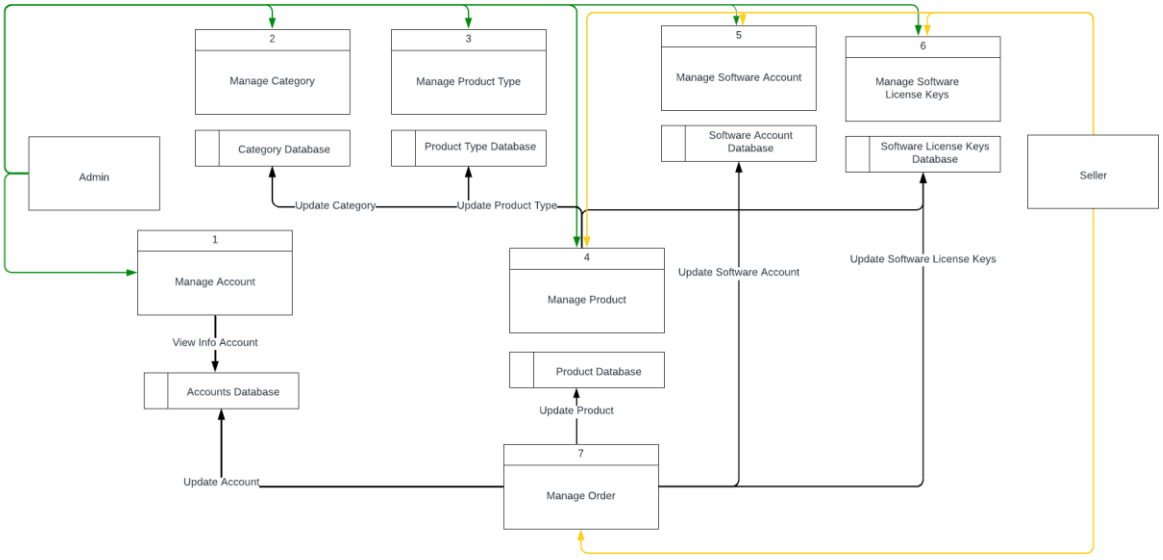



## II. Data Flow Diagram



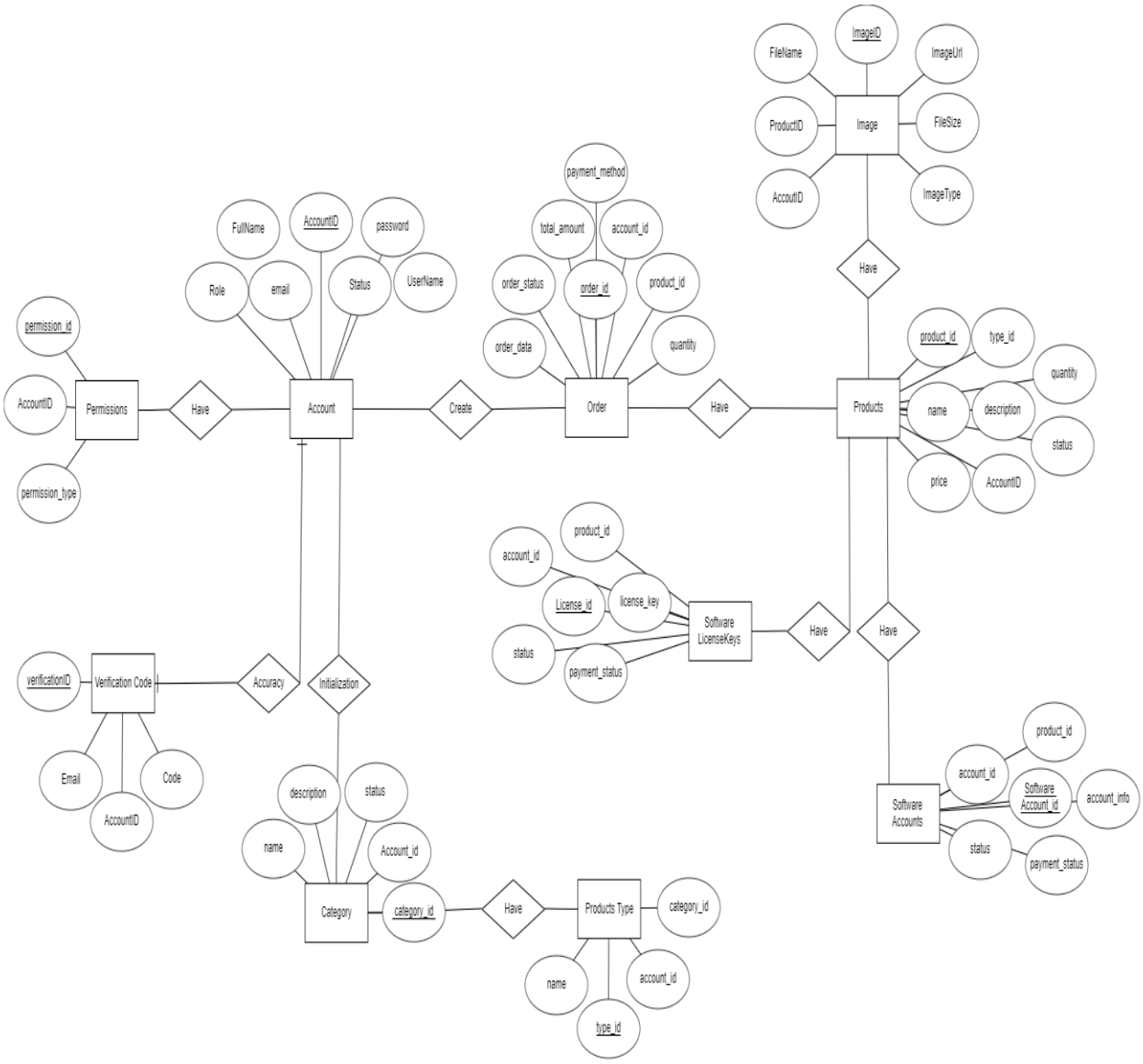

Level 0


Account permission group information
1
Admin, Seller
Account information
Account management information
Results role
Manage Accounts
Account Information
List accounts
Role information
Accounts
2
Permission group information
Permission group results
Manage Permissions
Permission group results
List permission groups
Permissions
3
Products
Manage Products
Products information
Product manipulation results
Seller
Update information
Ordered product status
4
Orders
Order information
Order status
Manage Orders
Sales data
5
Dashboard


2
Manage Category
3
Manage Product Type
5
Manage Software Account
6
Manage Software License Keys
Category Database
Product Type Database
Software Account Database
Software License Keys Database
Admin
Seller
Update Category
Update Product Type
1
Manage Account
4
Manage Product
Update Software Account
Update Software License Keys
View Info Account
Accounts Database
Product Database
Update Product
7
Update Account
Manage Order

# Entity Relationship Diagram

## I. ERD




| | Prepared by (Student) | Approved by (Faculty) |
|---|---|---|
| | **Project Group No**:01 | LE THANH NHAN |
| **Signature** | | |
| **Date** | | |

# Table Design

## I. Table Design

| Table: Accounts | | | | | |
|---|---|---|---|---|---|
| **#** | **Fields** | **Data type** | **Keys** | **Constrains** | **Description** |
| 1 | account_id | bigint | Primary key | Not null | Account ID |
| 2 | username | varchar(255) | | Not null, Unique | Username |
| 3 | password_hash | varchar(255) | | Not null | Password |
| 4 | email | varchar(255) | | Not null, Unique | Email address |
| 5 | full_name | varchar(255) | | Not null | Full name |
| 6 | role | enum | | Not null | Account role |
| 7 | status | enum | | Not null | Account status |
| | | | | | |
| **Table: Categories** | | | | | |
| **#** | **Fields** | **Data type** | **Keys** | **Constrains** | **Description** |
| 1 | category_id | bigint | Primary key | Not null | Category ID |
| 2 | account_id | bigint | Foreign key | Not null | Link to Accounts |
| 3 | name | varchar(255) | | Not null | Category name |
| 4 | description | text | | | Category description |
| 5 | status | enum | | Not null | Category status |
| | | | | | |
| **Table: ProductTypes** | | | | | |
| **#** | **Fields** | **Data type** | **Keys** | **Constrains** | **Description** |
| 1 | type_id | bigint | Primary key | Not null | Product type ID |
| 2 | account_id | bigint | Foreign key | Not null | Link to Accounts |
| 3 | category_id | bigint | Foreign key | Not null | Link to Categories |
| 4 | name | varchar(255) | | Not null | Product type name |

| Table: Products | | | | | |
|---|---|---|---|---|---|
| **#** | **Fields** | **Data type** | **Keys** | **Constrains** | **Description** |
| 1 | product_id | bigint | Primary key | Not null | Product ID |
| 2 | type_id | bigint | Foreign key | Not null | Link to ProductTypes |

| | | | | | |
|---|---|---|---|---|---|
| 3 | account_id | bigint | Foreign key | Not null | Link to Accounts |
| 4 | name | varchar(255) | | Not null | Product name |
| 5 | description | text | | | Product description |
| 6 | price | numeric(38, 2) | | Not null | Product price |
| 7 | quantity | int | | Not null | Quantity in stock |
| 8 | status | enum | | Not null | Product status |
| | | | | | |

**Table: SoftwareAccounts**

| # | Fields | Data type | Keys | Constrains | Description |
|---|---|---|---|---|---|
| 1 | software_account_id | bigint | Primary key | Not null | Software account ID |
| 2 | account_id | bigint | Foreign key | Not null | Linked to Accounts |
| 3 | product_id | bigint | Foreign key | Not null | Linked to Products |
| 4 | account_info | text | | Not null | Software account information |
| 5 | status | enum | | Not null | Account status |
| 6 | payment_status | enum | | Not null | Payment status |
| | | | | | |

**Table: SoftwareLicenseKeys**

| # | Fields | Data type | Keys | Constrains | Description |
|---|---|---|---|---|---|
| 1 | license_id | bigint | Primary key | Not null | License key ID |
| 2 | account_id | bigint | Foreign key | Not null | Link to Accounts |
| 3 | product_id | bigint | Foreign key | Not null | Link to Products |
| 4 | license_key | text | | Not null | License key value |
| 5 | status | enum | | Not null | License key status |
| 6 | payment_status | enum | | Not null | Payment status |
| | | | | | |

**Table: Orders**

| # | Fields | Data type | Keys | Constrains | Description |
|---|---|---|---|---|---|
| 1 | order_id | bigint | Primary key | Not null | Order ID |
| 2 | account_id | bigint | Foreign key | Not null | Link to Accounts |
| 3 | product_id | bigint | Foreign key | Not null | Link to Products |
| 4 | quantity | int | | Not null | Quantity product |
| 5 | payment_method | enum | | Not null | Method of payment |
| 6 | total_amount | numeric(38, 2) | | Not null | Total amount |
| 7 | order_status | enum | | Not null | Order status |

| | | | | | |
|---|---|---|---|---|---|
| 8 | order_data | datetime | | Not null | Oder date and time |
| | | | | | |

**Table: Images**

| # | Fields | Data type | Keys | Constrains | Description |
|---|---|---|---|---|---|
| 1 | image_id | bigint | Primary key | Not null | Image ID |
| 2 | category_id | bigint | Foreign key | Not null | Photo uploader Linked to Categories |
| 3 | product_id | bigint | Foreign key | Not null | Photo uploader Linked to Products |
| 4 | account_id | bigint | Foreign key | Not null | Photo uploader Linked to Accounts |
| 5 | image_url | varchar(255) | | | URL where the image is stored |
| 6 | image_type | Enum | | Not null | Type of the image |
| 7 | file_name | varchar(100) | | | Original file name of the image |
| 8 | file_size | varchar(255) | | | Size of the image file in bytes |
| | | | | | |

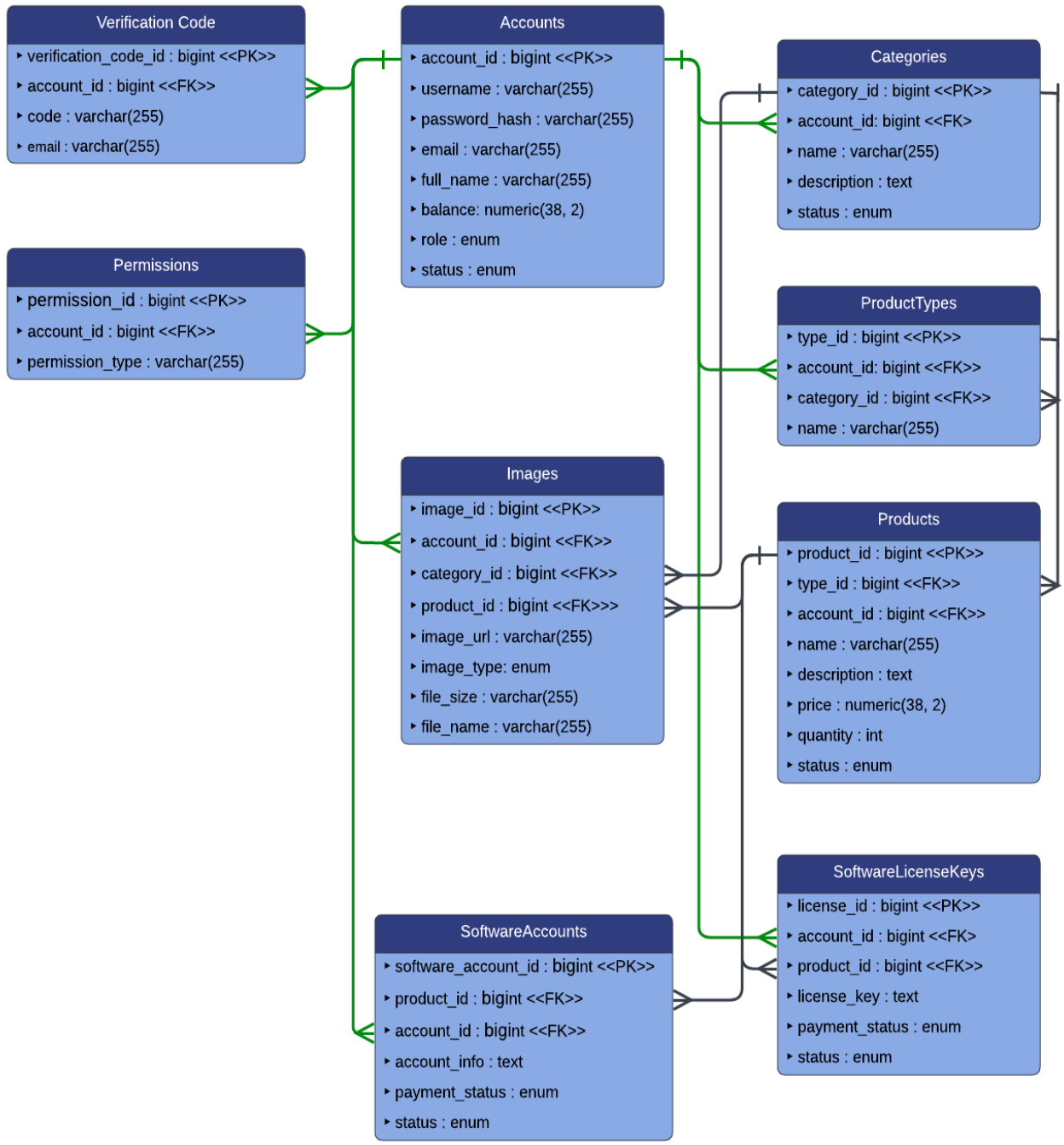
**Table: Verification Code**

| # | Fields | Data type | Keys | Constrains | Description |
|---|---|---|---|---|---|
| 1 | verification_code_id | bigint | Primary key | Not null | Verification Code ID |
| 2 | account_id | bigint | Foreign key | Not null | Link to Accounts |
| 3 | code | varchar(255) | | | Verification Code |
| 4 | email | varchar(255) | | Not null | Email |

**Table: Permissions**

| Fields | Data type | Keys | Constrains | Description |
|---|---|---|---|---|
| permission_id | bigint | Primary key | Not null | Permission ID |
| account_id | bigint | Foreign key | Not null | Link to Accounts |
| permission_type | varchar(255) | | | Type of rights managed |

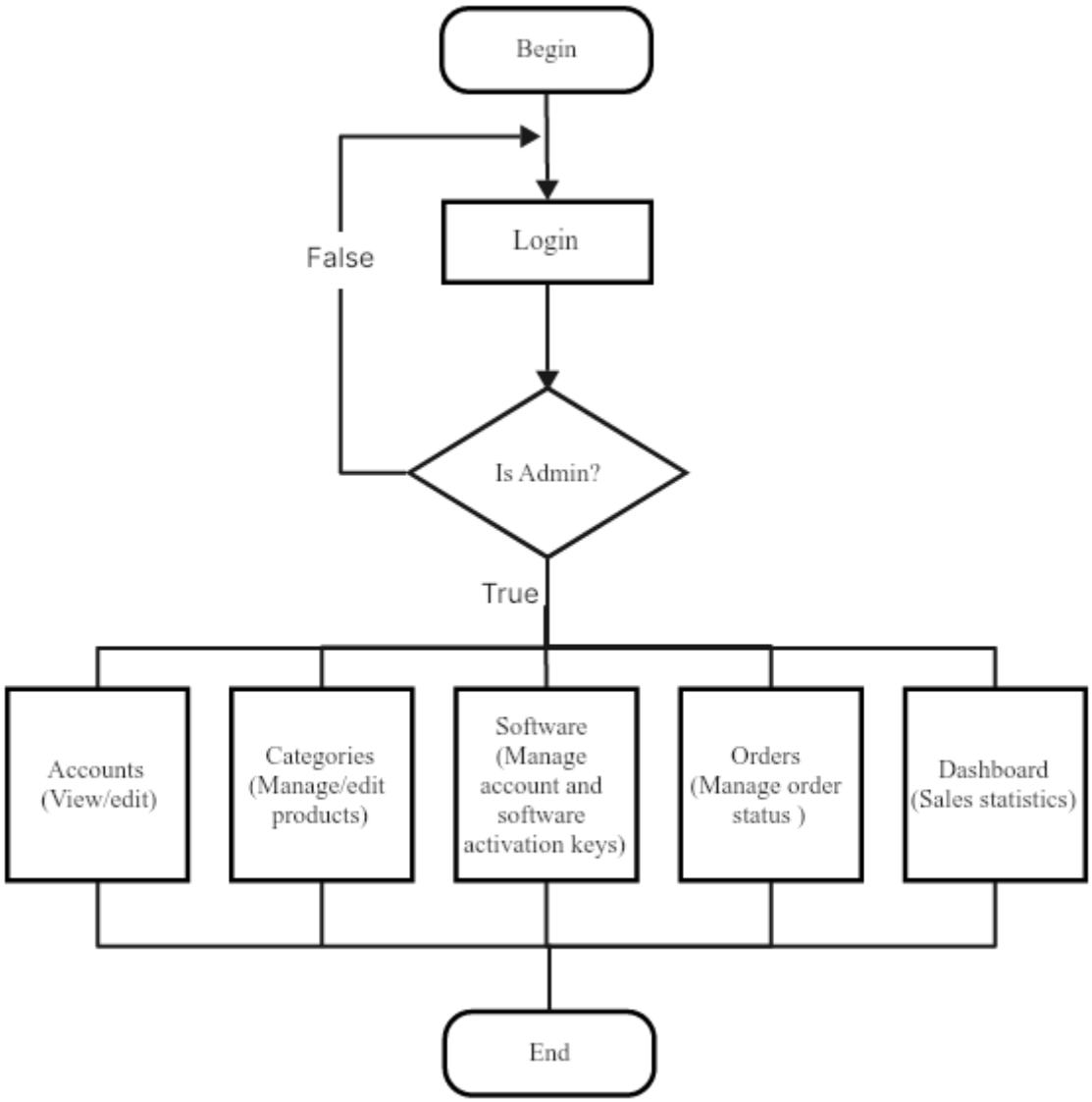
## II. Relationship Diagram



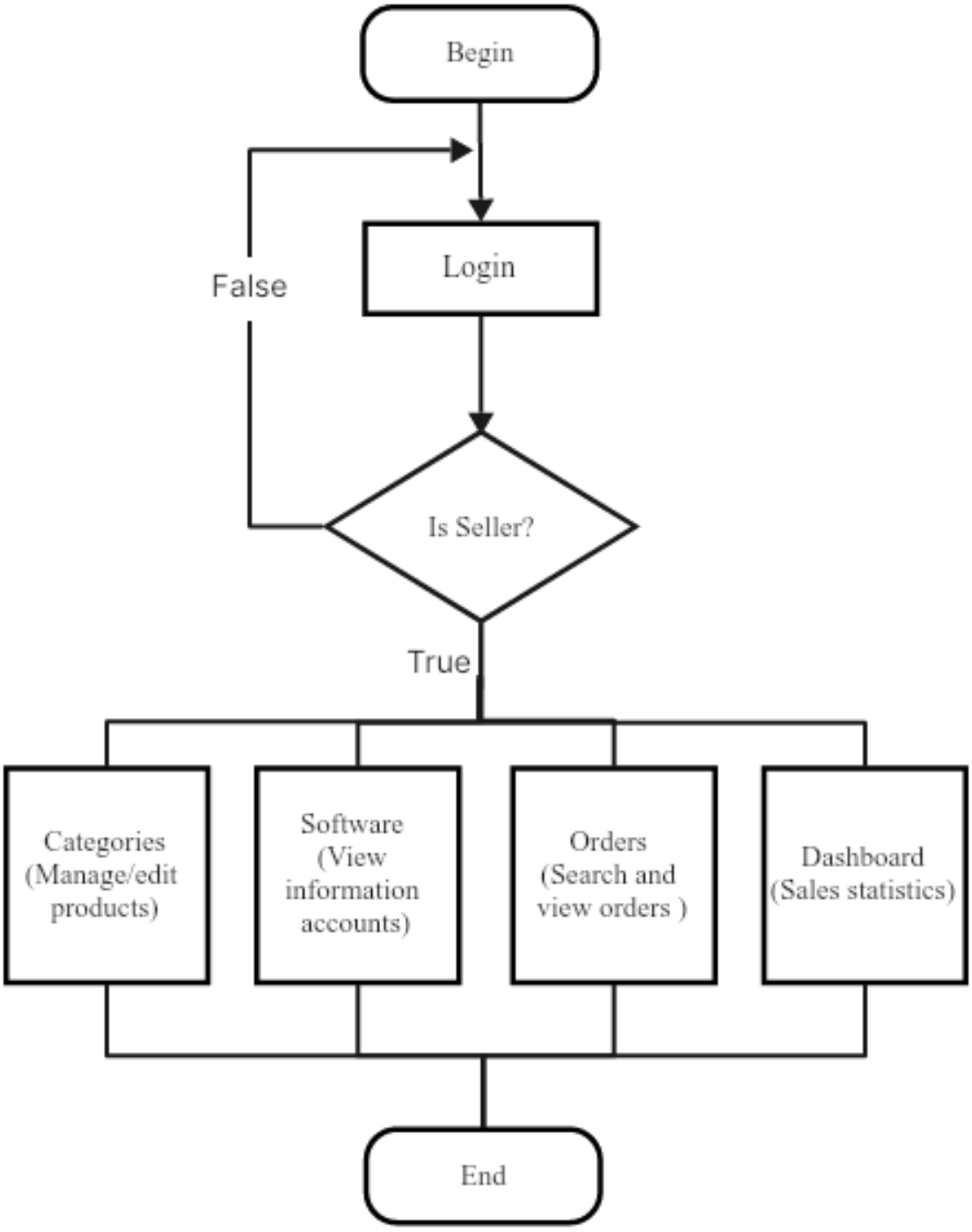

| | **Prepared by (Student)** | **Approved by (Faculty)** |
|---|---|---|
| | **Project Group No**:01 | LE THANH NHAN |
| **Signature** | | |
| **Date** | | |

# Algorithm

## I. Admin



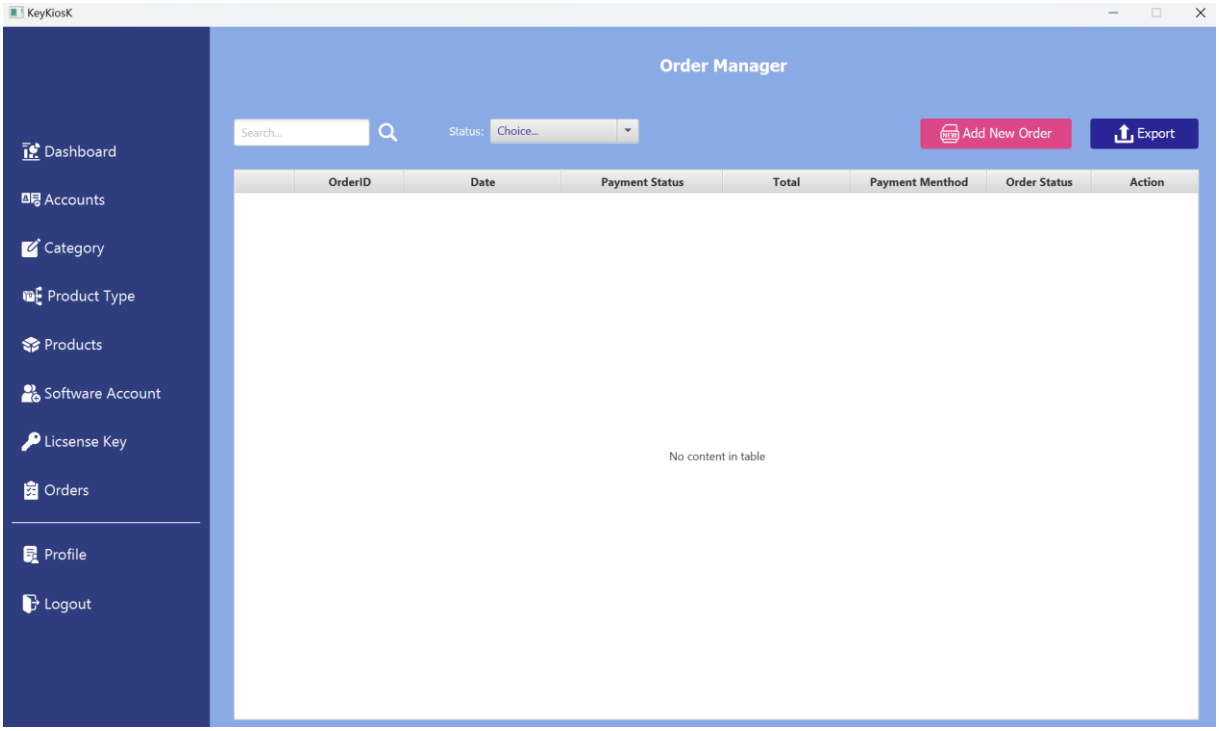
## II. Seller


Begin
Login
False
Is Seller?
True
Categories (Manage/edit products)
Software (View information accounts)
Orders (Search and view orders )
Dashboard (Sales statistics)
End

# Review 03

# Screen shots

## I. Order



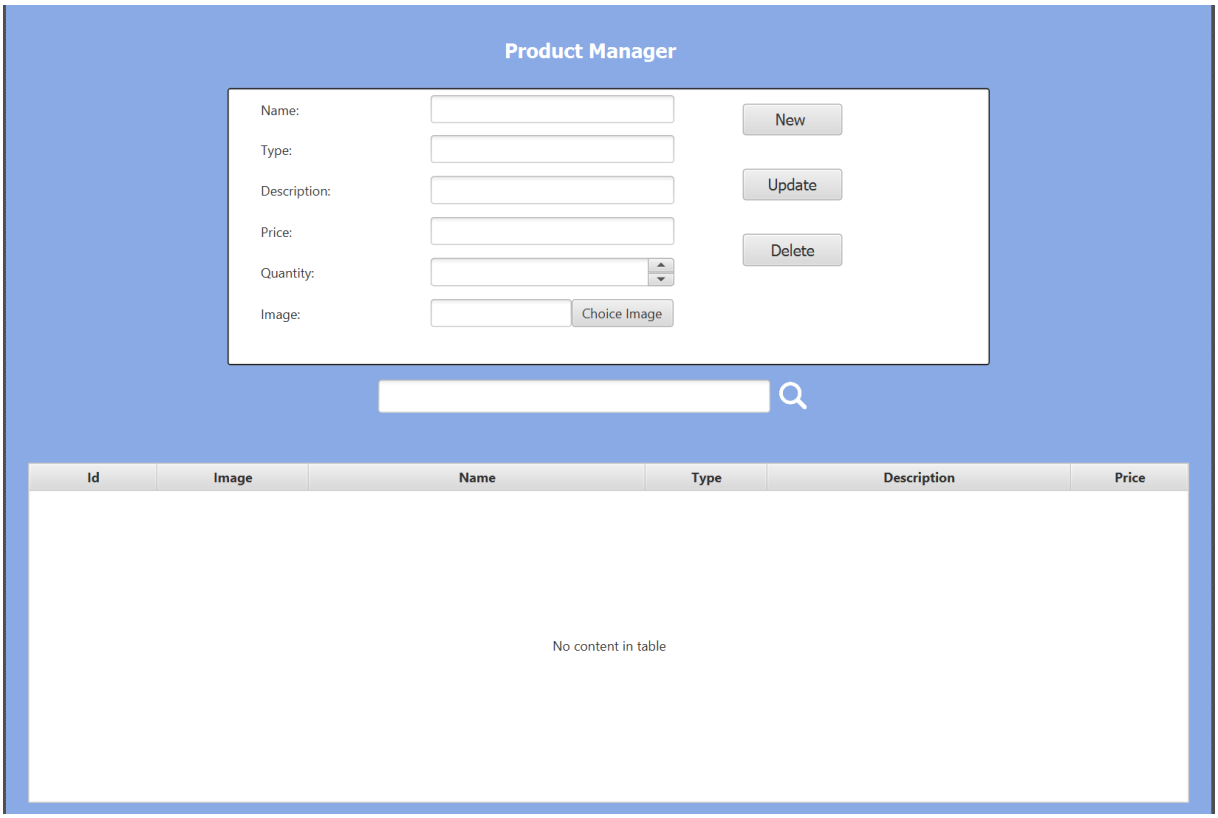

**Description** : This page allows users to view invoices, add new invoices, edit invoices, delete invoices, and also export invoices.

**From** : This page can be opened from any tab within the app.

**To** :This page can navigate to any tab.

| Properties | Value |
|---|---|
| Document theme and color scheme | Management of account and software sales |
| Form - Background color | Tahoma - #8AAAE5 |
| Title - Font Size | 16px |
| Title - Font Color | #FFFFFF |
| Title - Font Style | Bold |
| Title - Alignment | Centered |
| Background color of Controls on the form | #2F3C7E, #DB4787, #292594 |
| Foreground color of Controls on the form | #2F3C7E |
| Control Caption -- Font size | 16px |
| Control Caption - Font Color | #2F3C7E |
| Control Caption - Font Style | Bold |
| Control caption and controls - Alignment | Centered |
| Command button - Alignment | Centered |

## II. Products



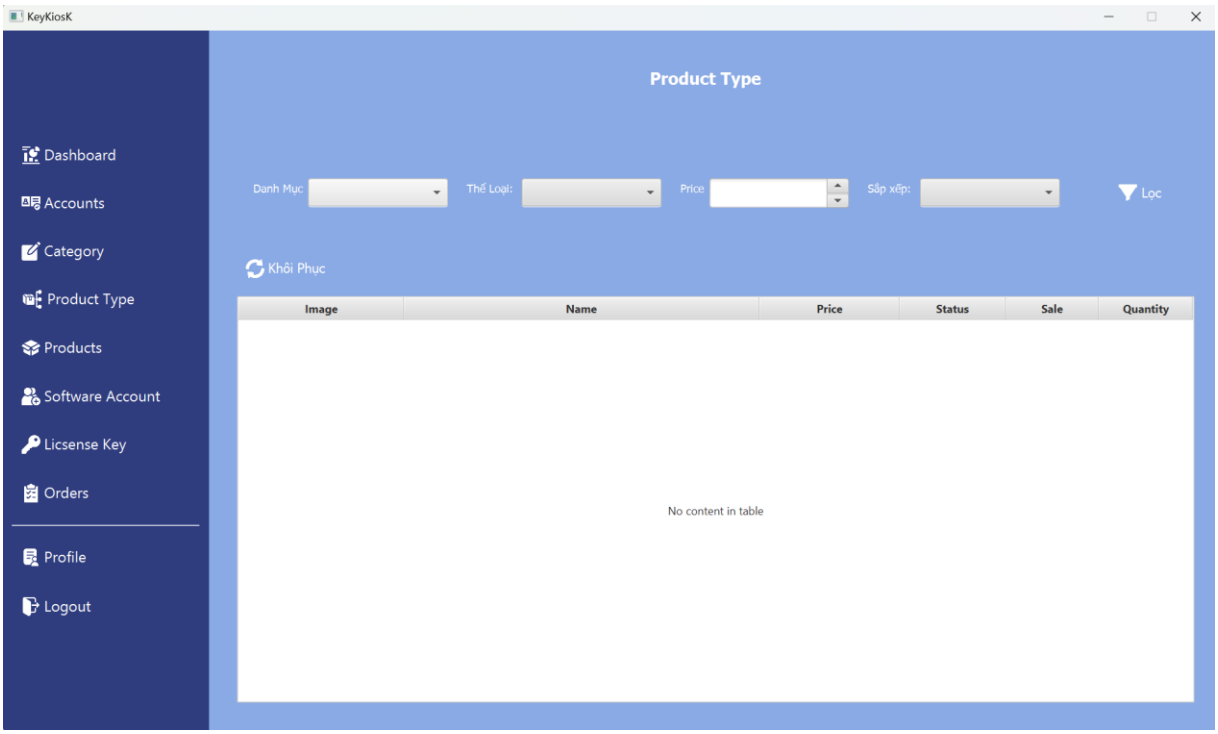

**Description** : This page allows viewing the entire list of products and enables additional actions such as viewing more details, editing, and deleting all products.

**From** : This page can be opened from any tab within the app.

**To** : This page can navigate to any tab.

| Properties | Value |
|---|---|
| Document theme and color scheme | Management of account and software sales |
| Form - Background color | Tahoma - #8AAAE5 |
| Title - Font Size | 16px |
| Title - Font Color | #FFFFFF |
| Title - Font Style | Bold |
| Title - Alignment | Centered |
| Background color of Controls on the form | #2F3C7E |
| Foreground color of Controls on the form | #2F3C7E |
| Control Caption -- Font size | 16px |
| Control Caption - Font Color | #2F3C7E |
| Control Caption - Font Style | Bold |
| Control caption and controls - Alignment | Centered |
| Command button - Alignment | Centered |

## III. Product Type



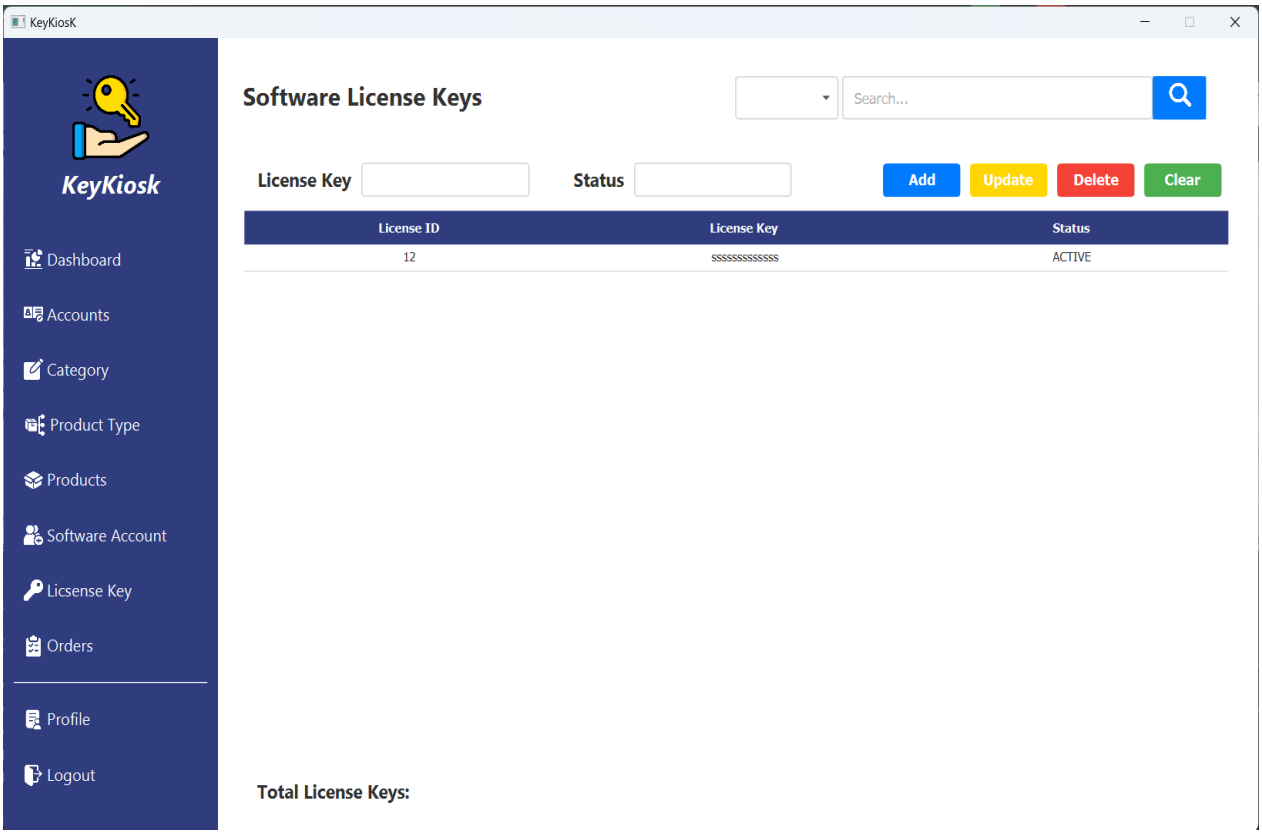

**Description** : This page enables viewing all products, as well as searching and sorting products by their product type.

**From** : This page can be opened from any tab within the app.

**To** : This page can navigate to any tab.

| Properties | Value |
|---|---|
| Document theme and color scheme | Management of account and software sales |
| Form - Background color | Tahoma - #8AAAE5 |
| Title - Font Size | 16px |
| Title - Font Color | #FFFFFF |
| Title - Font Style | Bold |
| Title - Alignment | Centered |
| Background color of Controls on the form | #2F3C7E |
| Foreground color of Controls on the form | #2F3C7E |
| Control Caption -- Font size | 16px |
| Control Caption - Font Color | #2F3C7E |
| Control Caption - Font Style | Bold |
| Control caption and controls - Alignment | Centered |
| Command button - Alignment | Centered |

## IV. Software License Keys



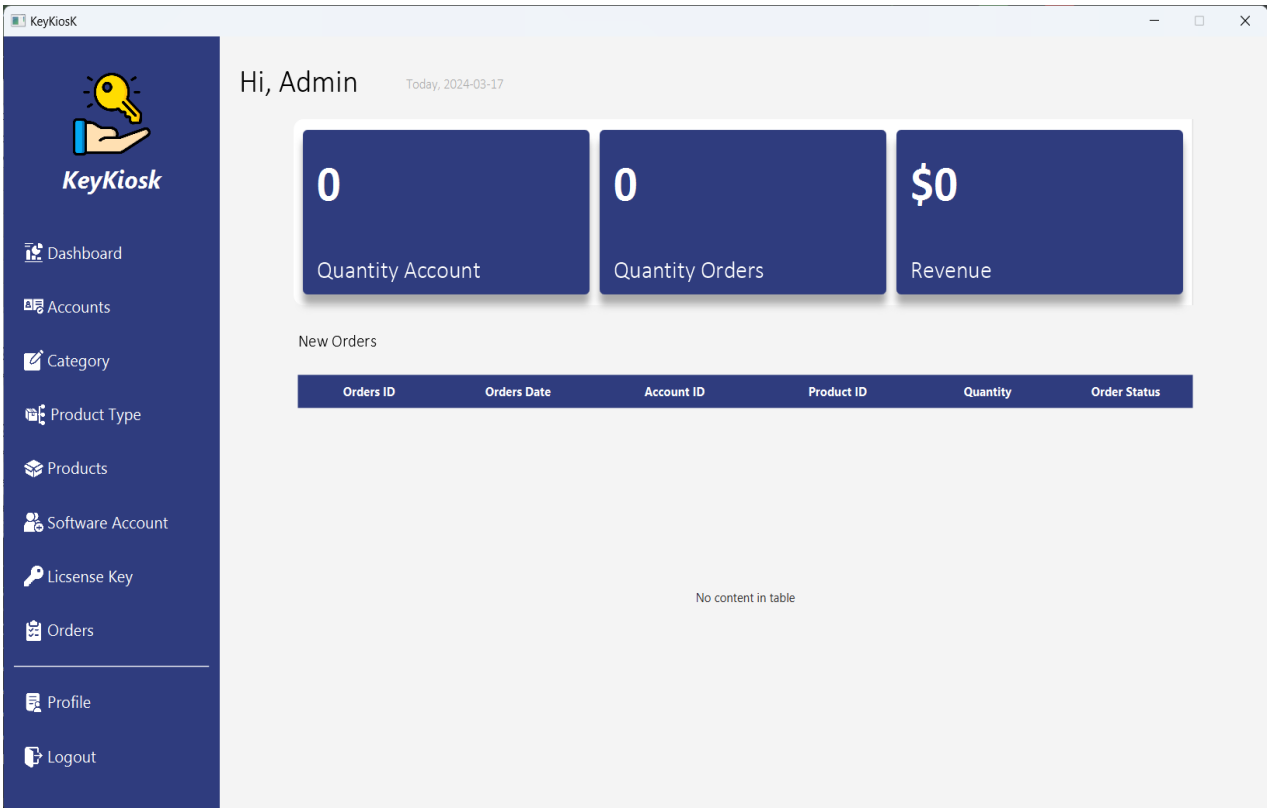

**Description** : Software License Keys page, This page manage information about software activation keys added by the seller.

**From** : This page can be opened from any tab within the app.

**To** : This page can navigate to any tab.

| Properties | Value |
|---|---|
| Document theme and color scheme | Software License Keys # 17131E |
| Form - Background color | Family System - # FFFFFF |
| Title - Font Size | 24px |
| Title - Font Color | # 2F3C7E |
| Title - Font Style | Bold |
| Title - Alignment | Centered |
| Background color of Controls on the form | #2F3C7E |
| Foreground color of Controls on the form | #2F3C7E |
| Control Caption -- Font size | 16px |
| Control Caption - Font Color | #2F3C7E |
| Control Caption - Font Style | Bold |
| Control caption and controls - Alignment | Centered |
| Command button - Alignment | Centered |

## V. Dashboard.



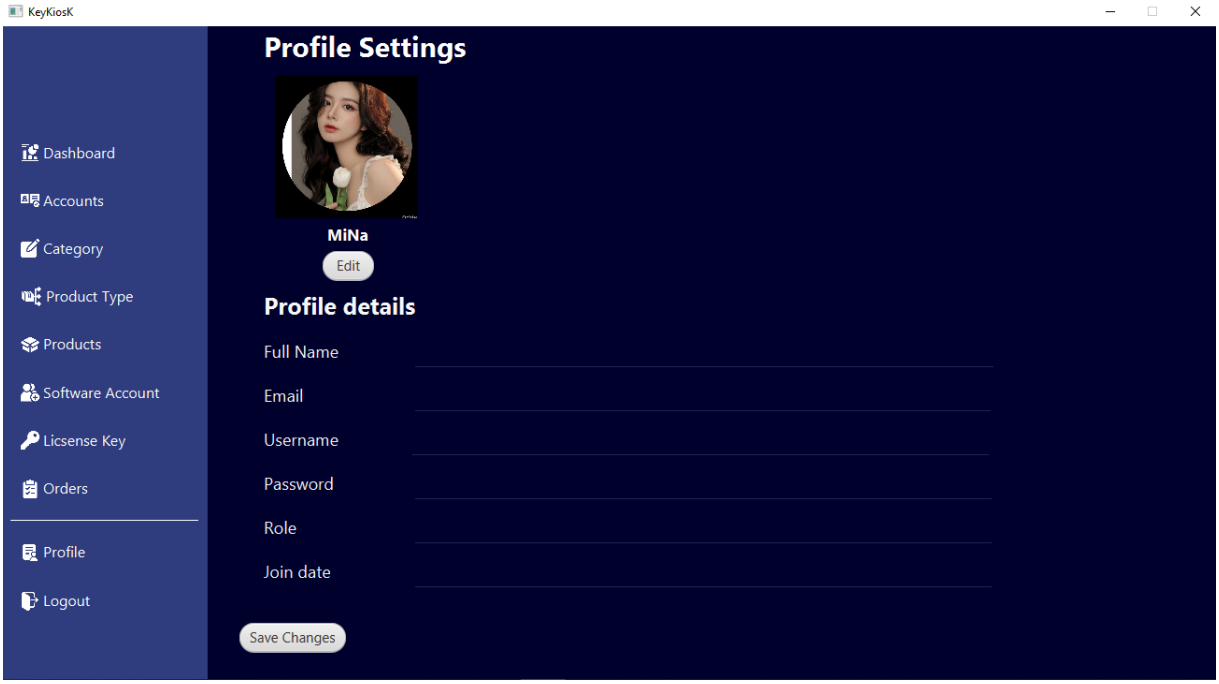

**Description** : Dashboard page, This page online store management

**From** : This page can be opened from any tab within the app.

**To** : This page can navigate to any tab

| Properties | Value |
|---|---|
| Document theme and color scheme | Dashboard # 17131E |
| Form - Background color | Family System - # FFFFFF |
| Title - Font Size | 24px |
| Title - Font Color | # 2F3C7E |
| Title - Font Style | Bold |
| Title - Alignment | Centered |
| Background color of Controls on the form | #2F3C7E |
| Foreground color of Controls on the form | #2F3C7E |
| Control Caption -- Font size | 16px |
| Control Caption - Font Color | #2F3C7E |
| Control Caption - Font Style | Bold |
| Control caption and controls - Alignment | Centered |
| Command button - Alignment | Centered |

## VI. Profile



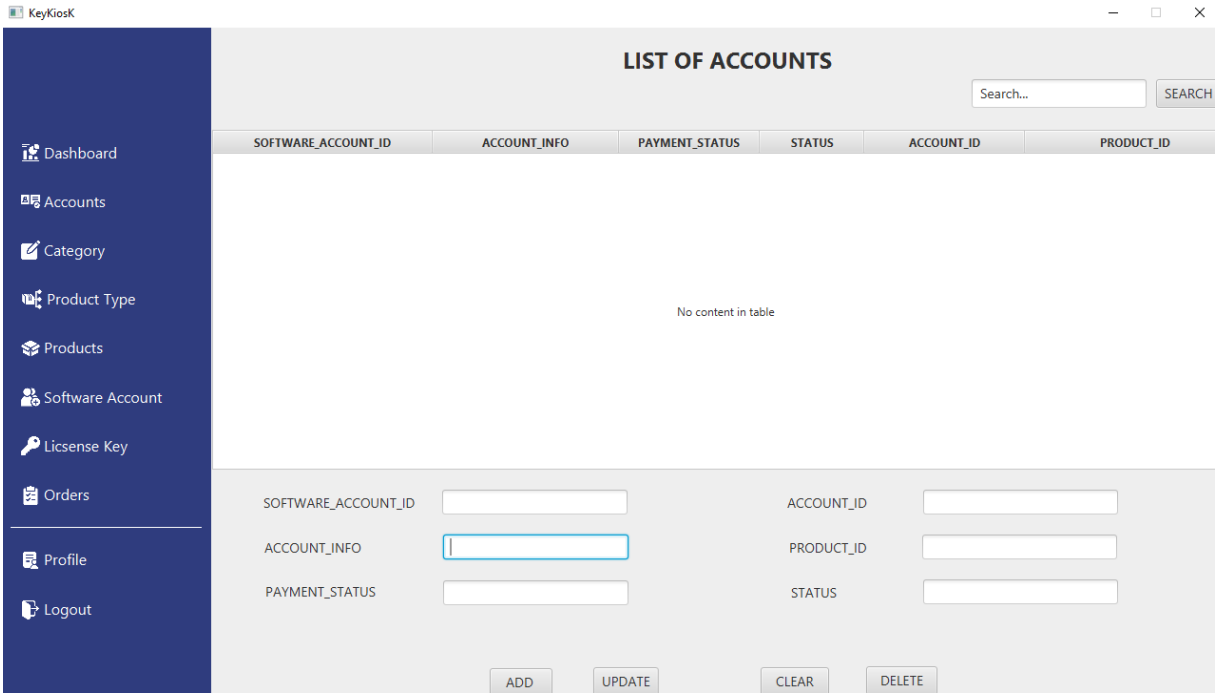

**Description:** This page listed allows users to view and update their personal information, including changing their password.

**From:** This page can be opened from any tab within the app.

**To:** This page can navigate to any tab.

| Properties | Value |
|---|---|
| Document theme and color scheme | Profile |
| Form - Background color | Tahoma -#f8f7f7 |
| Title - Font Size | 50px |
| Title - Font Color | #f8f7f7 |
| Title - Font Style | Bold |
| Title - Alignment | Center-LEFT |
| Background color of Controls on the form | #2F3C7E |
| Foreground color of Controls on the form | #2F3C7E |
| Control Caption -- Font size | 15px |
| Control Caption - Font Color | #000000 |
| Control Caption - Font Style | Bold |
| Control caption and controls - Alignment | Center-LEFT |
| Command button - Alignment | Center-LEFT |

## VII. Software Account




**Description:** This page listed allows users to view and update their personal information, including changing their password.

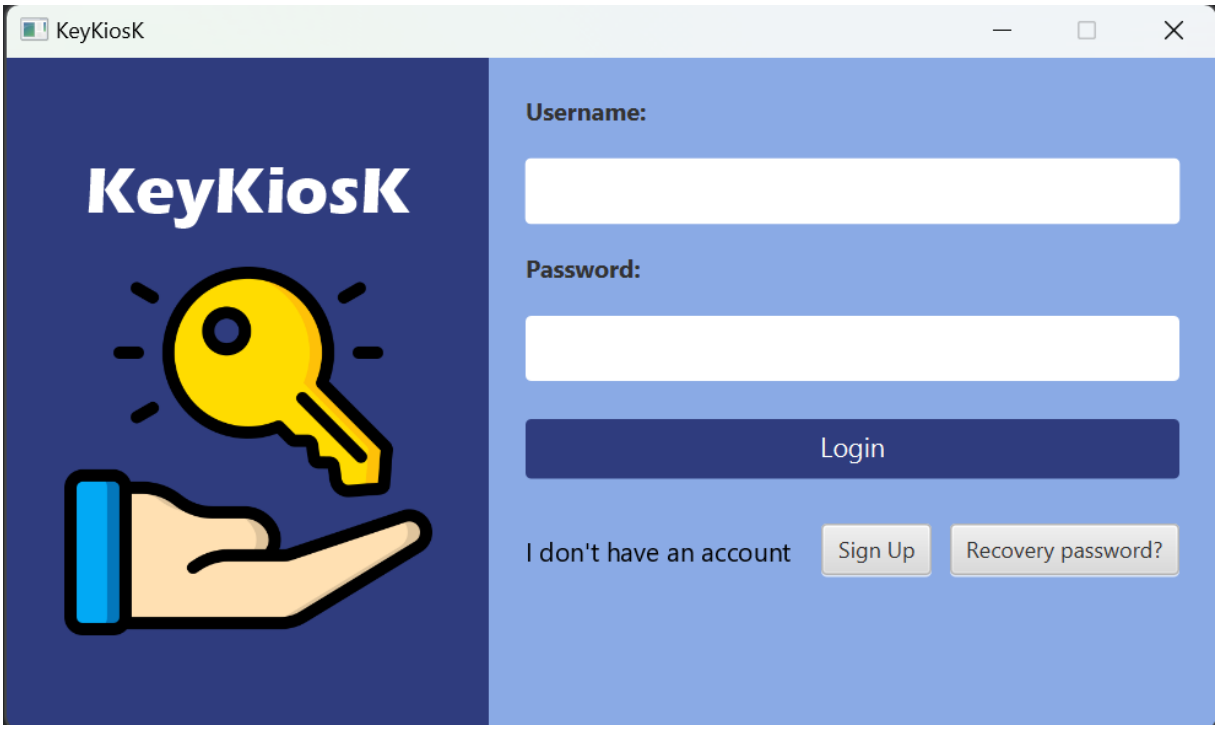
**From**: This page can be opened from any tab within the app.

**To**: This page can navigate to any tab.

| Properties | Value |
|---|---|
| Document theme and color scheme | Software Account |

| | |
|---|---|
| Form - Background color | Tahoma - #282525 |
| Title - Font Size | 30px |
| Title - Font Color | #282525 |
| Title - Font Style | Bold |
| Title - Alignment | Center-LEFT |
| Background color of Controls on the form | #2F3C7E |
| Foreground color of Controls on the form | #2F3C7E |
| Control Caption -- Font size | 14px |
| Control Caption - Font Color | #2F3C7E |
| Control Caption - Font Style | Bold |
| Control caption and controls - Alignment | Center-LEFT |
| Command button - Alignment | Center-LEFT |

## VIII. Login



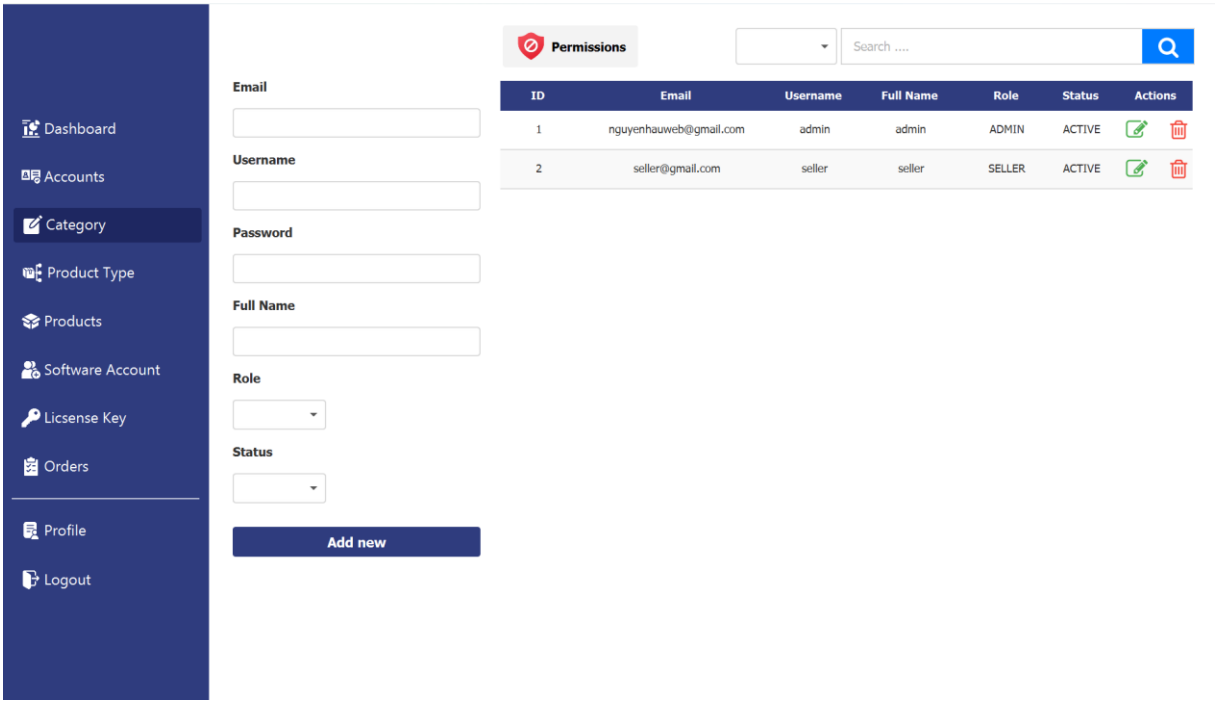

**Description:** This page appears upon launching the application. Its purpose is to authenticate the user's identity and permissions through a username and password.

**From:** This page can be opened from any tab within the app.

**To:** This page can navigate to any tab.

| | |
|---|---|
| Document theme and color scheme | Login #2F3C7E |
| Form - Background color | #FFFFFF |
| Title - Font Size | 1.2em |
| Title - Font Color | #FFFFFF, #000000 |
| Title - Font Style | Bold |
| Title - Alignment | Centered Left |
| Background color of Controls on the form | #FFFFFF |
| Foreground color of Controls on the form | #FFFFFF |
| Control Caption -- Font size | 1.2em |
| Control Caption - Font Color | #000000 |
| Control Caption - Font Style | Bold |
| Control caption and controls - Alignment | Centered Left |
| Command button - Alignment | Centered |

## IX. Account




**Description:** This page is used to manage accounts and is accessible only to administrators.

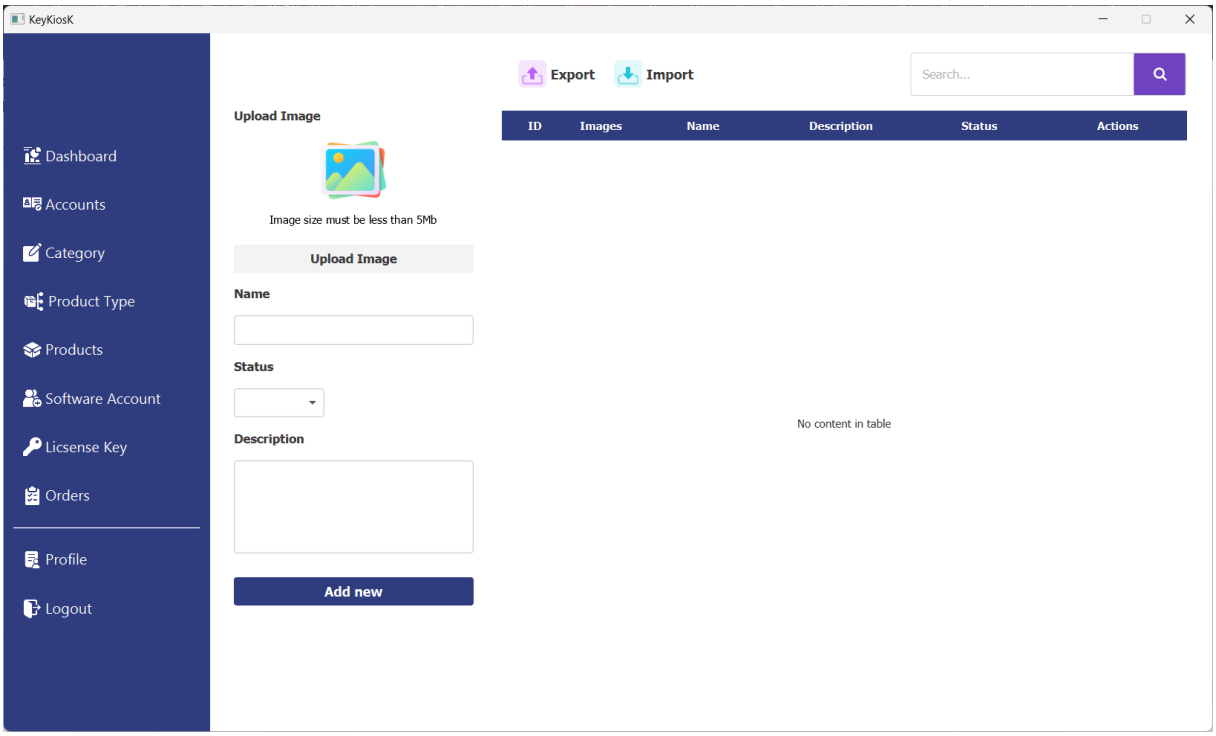
**From:** This page can be accessed from any tab within the app.

**To:** This page can navigate to any tab

| Properties | Value |
|---|---|

| | |
|---|---|
| Document theme and color scheme | Manage account #2F3C7E |
| Form - Background color | #FFFFFF |
| Title - Font Size | #2F3C7E |
| Title - Font Color | 1.2em |
| Title - Font Style | #FFFFFF |
| Title - Alignment | Bold |
| Background color of Controls on the form | Centered Left |
| Foreground color of Controls on the form | #FFFFFF |
| Control Caption -- Font size | #FFFFFF |
| Control Caption - Font Color | 1.2em |
| Control Caption - Font Style | #3b3b3b |
| Control caption and controls - Alignment | Bold |
| Command button - Alignment | Centered Left |

## X. Category




**Description:** This page is used to manage product categories.

**From:** This page can be accessed from any tab within the app.

**To:** This page can navigate to any tab

| Properties | Value |
|---|---|
| Document theme and color scheme | Manage categories #2F3C7E |
| Form - Background color | #FFFFFF |
| Form - Border olor | #2F3C7E |
| Title - Font Size | 1.2em |
| Title - Font Color | #FFFFFF |
| Title - Font Style | Bold |
| Title - Alignment | Centered Left |
| Background color of Controls on the form | #FFFFFF |
| Foreground color of Controls on the form | #FFFFFF |
| Control Caption -- Font size | 1.2em |
| Control Caption - Font Color | #3b3b3b |
| Control Caption - Font Style | Bold |
| Control caption and controls - Alignment | Centered Left |
| Command button - Alignment | Centered |

# Testing document

| Sr.No | Features Tested | Remarks |
|---|---|---|
| 1 | Login Functionality | Passed: Users can successfully log in with valid credentials. |
| 2 | Viewing Products | Passed: Users can view a list of existing products without any issues. |
| 3 | Adding a New Product | Passed: Users can add new products to the inventory without any issues. |
| 4 | Adding a New Product | Passed: Users can edit the details of existing products without any issues. |
| 5 | Deleting a Product | Passed: Users can delete products from the inventory as expected. |
| 6 | Search Functionality | Passed: The search feature returns accurate results as expected. |
| 7 | Sorting Products | Passed: Users can sort the products based on different criteria (e.g., name, price) successfully. |
| 8 | Filtering Products | Passed: Users can filter products based on specific criteria (e.g., category, availability) without any issues. |
| 9 | Exporting Products | Passed: The exporting feature functions properly and exports products in the desired format. |
| 10 | User Permissions | Passed: User permissions are properly enforced, restricting access to certain features based on user roles. |
| 11 | Image Upload | Passed: Users can upload product images without any issues. |
| 12 | Product Categories | Passed: Products are organized into categories as expected. |
| 13 | Data Validation | Passed: Data validation checks have been improved, minimizing the risk of input errors. |
| 14 | Performance Testing | Passed: The user interface is intuitive and easy to navigate. |
| 15 | | |

# Final checklist

| Sr.No | Aspected Tested | Suggestion/ Remarks |
|---|---|---|
| 1 | Are all the users able to view the images and links? | Yes |
| 2 | Have all the views, modules and controllers been properly integrated and is the site function as a single page application? | Yes |
| 3 | Are the GUI content devoid of spelling mistakes? | No |
| 4 | Is the application user-friendly? | Yes |
| 5 | Is the Website launching correctly in all popular browsers? | Yes |
| 6 | Are all the forms validated with proper criteria? | Yes |
| 7 | Do all text links lead to the appropriate website? | Yes |
| 8 | Do all image links lead to the appropriate website? | Yes |
| 9 | Are all the images and links clearly visible on the page? | Yes |
| 10 | Does the Web page work properly in all the tested browsers? | Yes |
| 11 | Does the Web page take too long to be loaded fully? | No |
| 12 | Is the navigation sequences correct through all the Web pages on the site? | Yes |
| 13 | Is the JavaScript code working as expected in all click events? | Yes |

| No | Member | Contents | | Table Name | Activity Plan | Date of Preparation of Activity Plan | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Planed Start Date | Actual Start Date | Actual Days | Status |
| 1 | **Nguyễn Tiến Đạt** | Admin | *Product Manager* | Products, Order, Product Type | 13/04/2024 | 13/04/2024 | 5 | OK |
| 2 | | | *Order Manager* | | 13/04/2024 | 13/04/2024 | 5 | OK |
| 3 | | | *Product Type Manager* | | 13/04/2024 | 13/04/2024 | 5 | OK |
| 4 | | Seller | *Product* | | 13/04/2023 | 13/04/2024 | 5 | OK |
| 5 | | | *Product Type* | | 13/04/2023 | 13/04/2024 | 5 | OK |
| 6 | | | *Order* | | 13/04/2024 | 13/04/2024 | 5 | OK |
| 1 | **Nguyễn Thanh Hậu** | Admin | *Account management* | Account, Login, Category | 13/04/2023 | 13/04/2024 | 5 | OK |
| 2 | | | *Category* | | 13/04/2023 | 13/04/2024 | 5 | OK |
| 4 | | Seller | *Login* | | 13/04/2023 | 13/04/2024 | 5 | OK |
| 5 | | | *Category* | | 13/04/2023 | 13/04/2024 | 5 | OK |
| 1 | **Phạm Tuyên** | Admin | *Software Account* | Software Account, Profile | 13/04/2023 | 13/04/2024 | 5 | OK |
| 2 | | | *Profile* | | 13/04/2023 | 13/04/2024 | 5 | OK |
| 3 | | Seller | *Software Account* | | 13/04/2023 | 13/04/2024 | 5 | OK |
| 4 | | | *Profile* | | 13/04/2023 | 13/04/2024 | 5 | OK |
| 1 | **Nguyễn Hoàng Thái** | Admin | *Software LicenseKeys* | LiscenseKeys, Dashboard | 13/04/2023 | 13/04/2024 | 5 | OK |
| 2 | | | *Dashboard* | | 13/04/2023 | 13/04/2024 | 5 | OK |
| 3 | | Seller | *Software LiscenseKeys* | | 13/04/2023 | 13/04/2024 | 5 | OK |
| 4 | | | *Dashboard* | | 13/04/2023 | 13/04/2024 | 5 | OK |

| | Prepared by (Student) | Approved by (Faculty) |
|---|---|---|
| | **Project Group No**:01 | LE THANH NHAN |
| **Signature** | | |
| **Date** | | |