

BC_PUN_2_Team 1

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E-Asset Management



Project OBJECTIVES

E-Asset Management system is a web-based application to keep track of several assets that can be borrowed, their availability, their current location, the current borrower and the asset history.

Assets include Laptops, Books, Mobiles and Devices. (Extensible to add more)

- Asset Tracking
- Borrowing & Availability
- Current Borrower
- Asset History
- Asset Reports

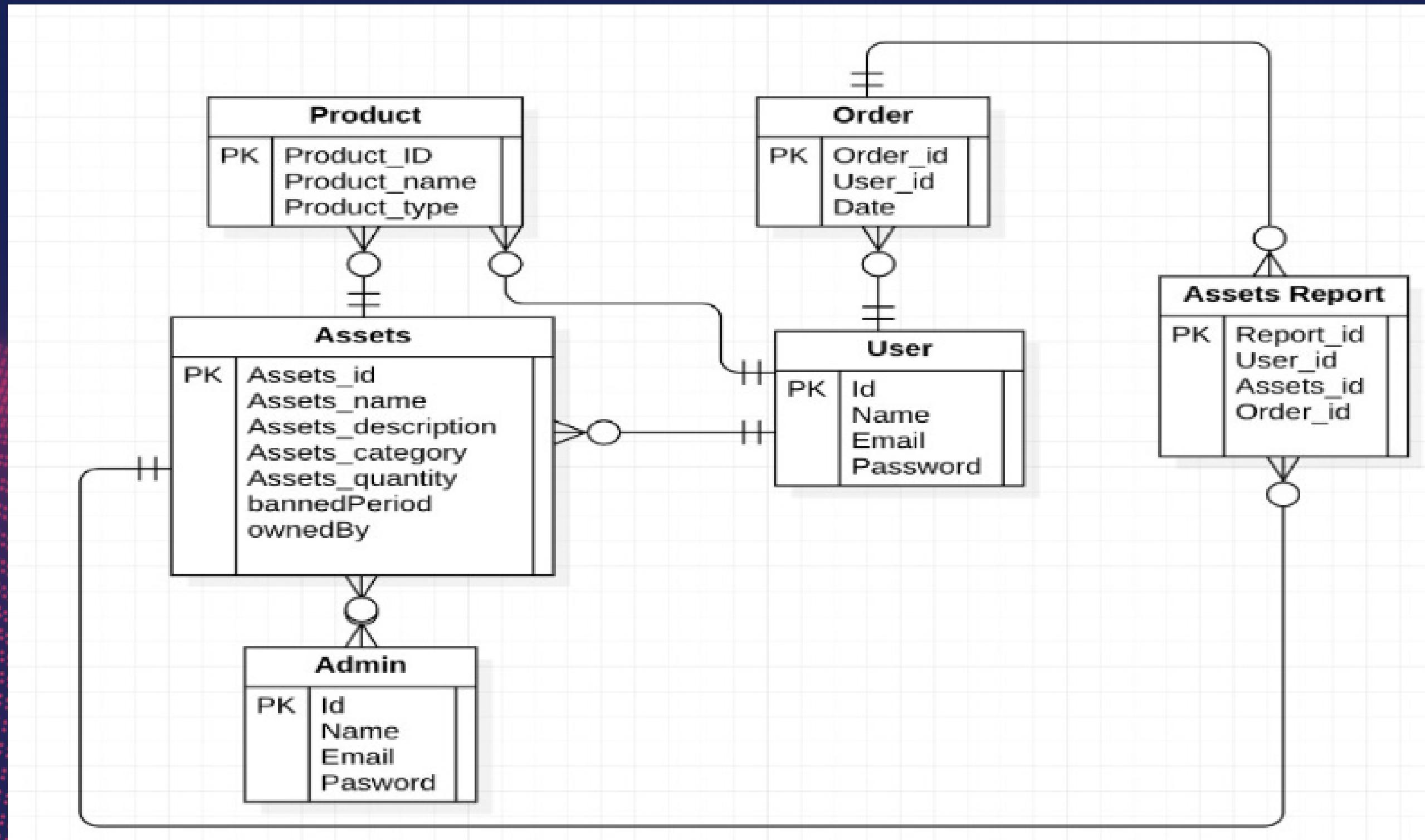
Package Structure : Module SplitUp.

Backend :

```
.gitignore
Backend
|-- src
|   |-- main
|   |   |-- com
|   |       |-- Application.java
|   |       |-- sentinels
|   |           |-- dao
|   |               |-- AssetDAO.java
|   |               |-- AssetDAOImpl.java
|   |               |-- AssetInventoryDAO.java
|   |               |-- AssetInventoryDAOImpl.java
|   |               |-- UserDao.java
|   |               |-- UserDaoImpl.java
|   |       |-- db
|   |           |-- DataSourceConnectionFactory.java
|   |       |-- exceptions
|   |           |-- AssetAlreadyExistsException.java
|   |           |-- AssetNotFoundException.java
|   |           |-- AssetUnavailableException.java
|   |           |-- AuthenticationException.java
|   |           |-- UserAlreadyExistsException.java
|   |           |-- UserNotFoundException.java
|   |       |-- model
|   |           |-- Asset.java
|   |           |-- AssetInventory.java
|   |           |-- Category.java
|   |           |-- Role.java
|   |           |-- Status.java
|   |           |-- User.java
|   |       |-- service
|   |           |-- AdminService.java
|   |           |-- AdminServiceImpl.java
|   |           |-- UserImportService.java
|   |           |-- UserService.java
|   |           |-- UserServiceImpl.java
|   |       |-- util
|   |           |-- Databaseutil.java
|   |-- resources
|       |-- db.properties
```

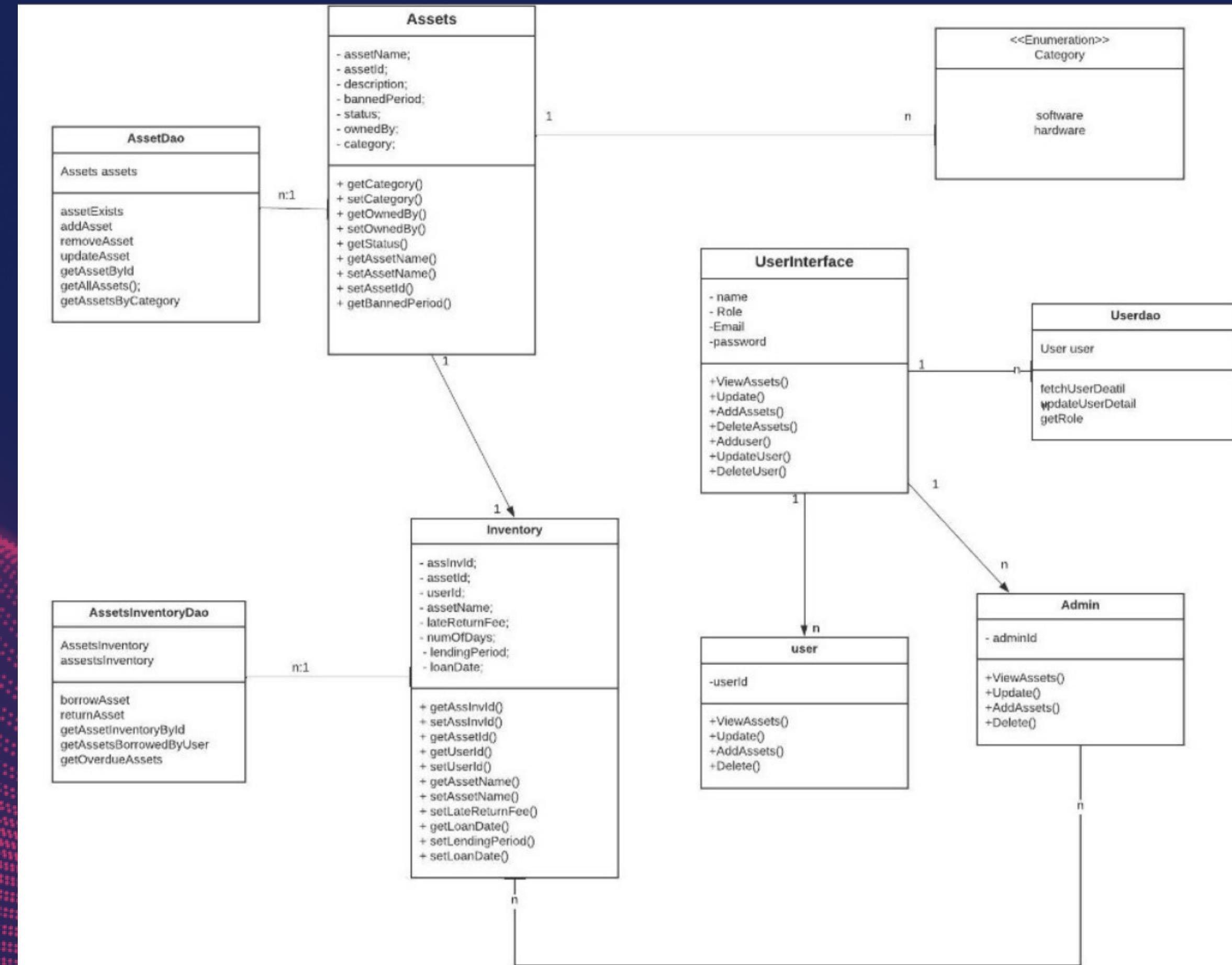
UML Diagrams :

ER Diagram



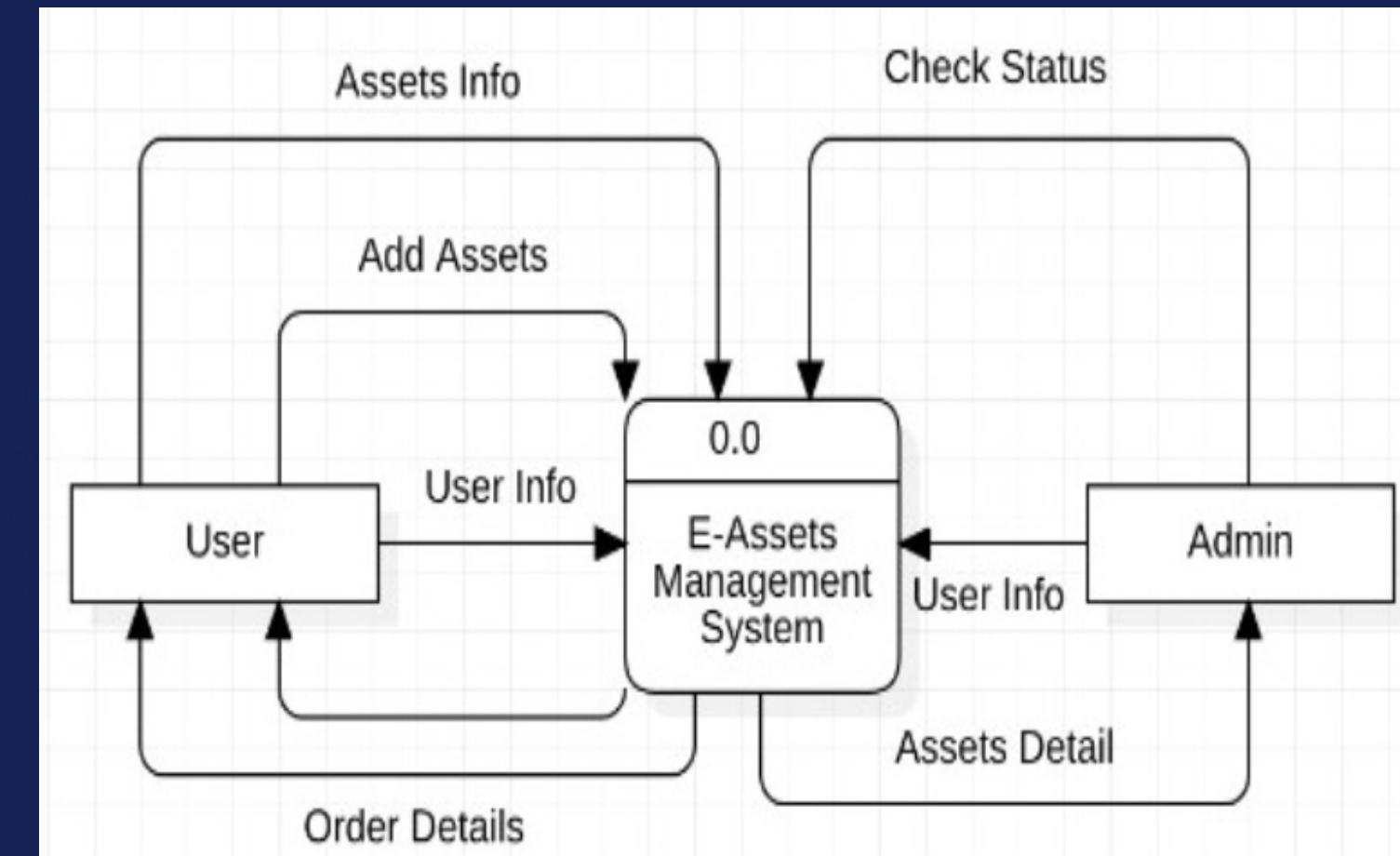
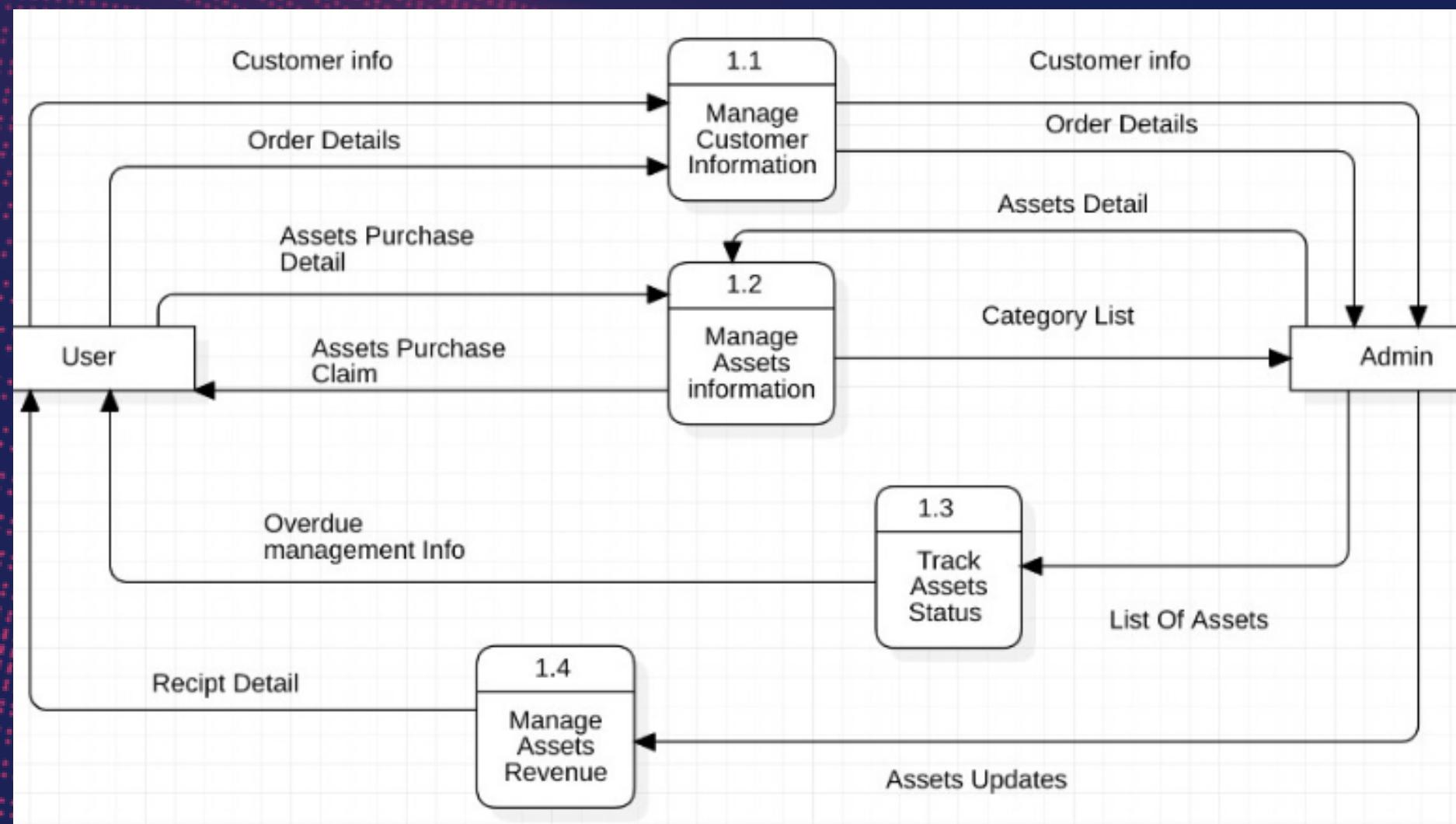
UML Diagrams :

Class Diagram



UML Diagrams :

DataFlow Diagram



Technologies WORKED ON

FRONT-END

HTML



CSS



BACK-END

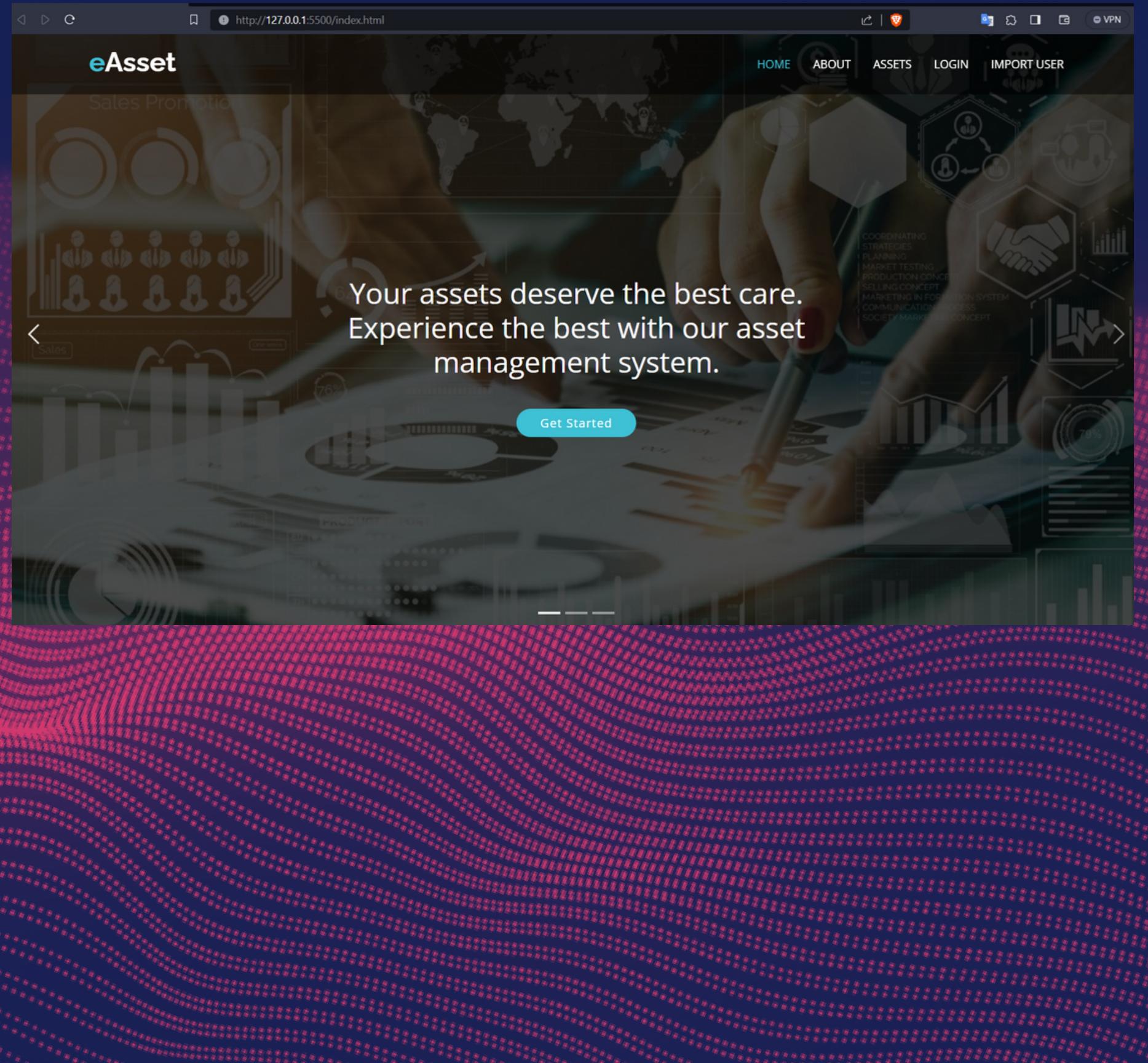


Java™

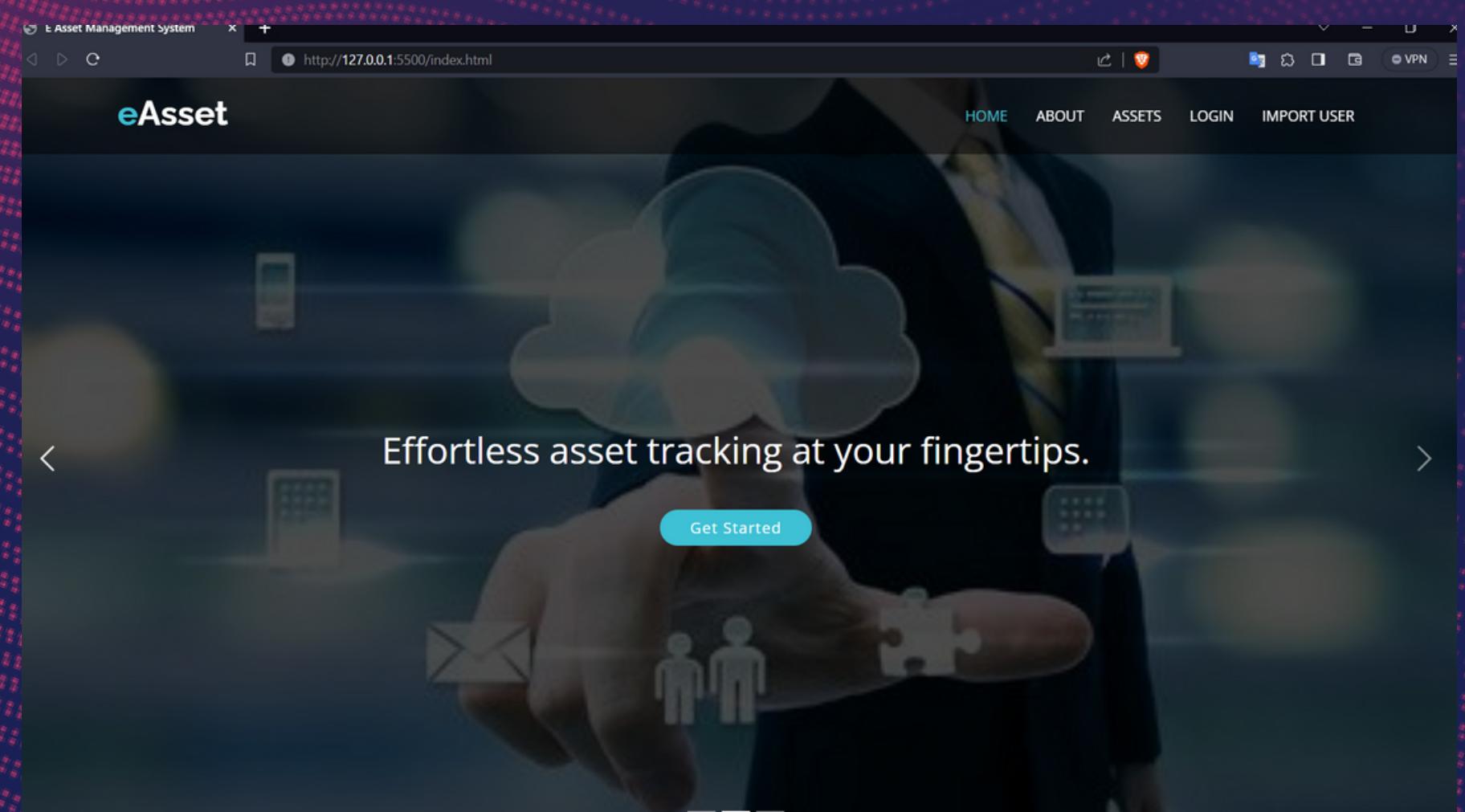


MySQL™

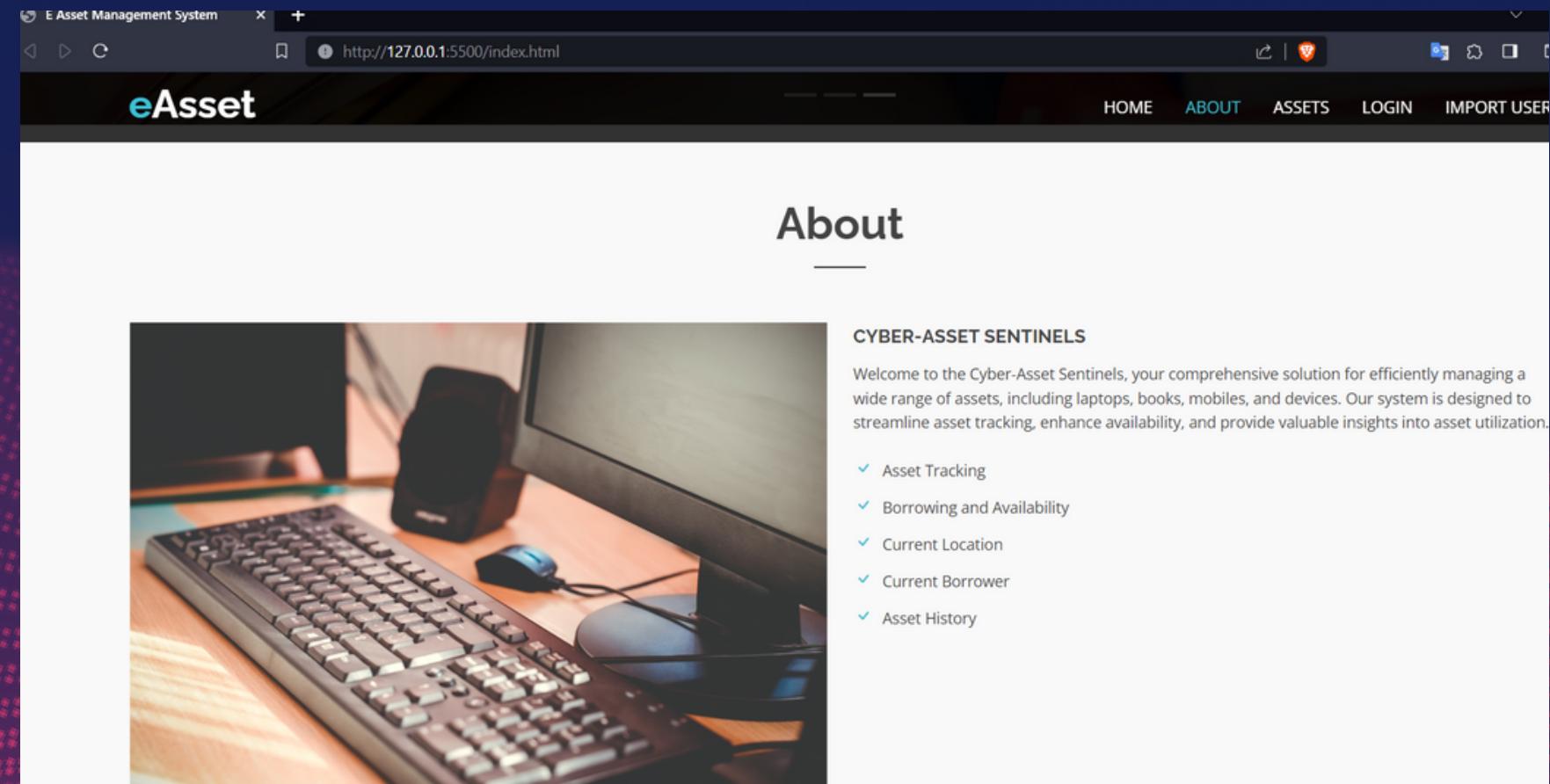
FrontEnd Screen Shots:



Common HomeScreen



Frontend Screen Shots:



Common HomeScreen & Import User Functionality.

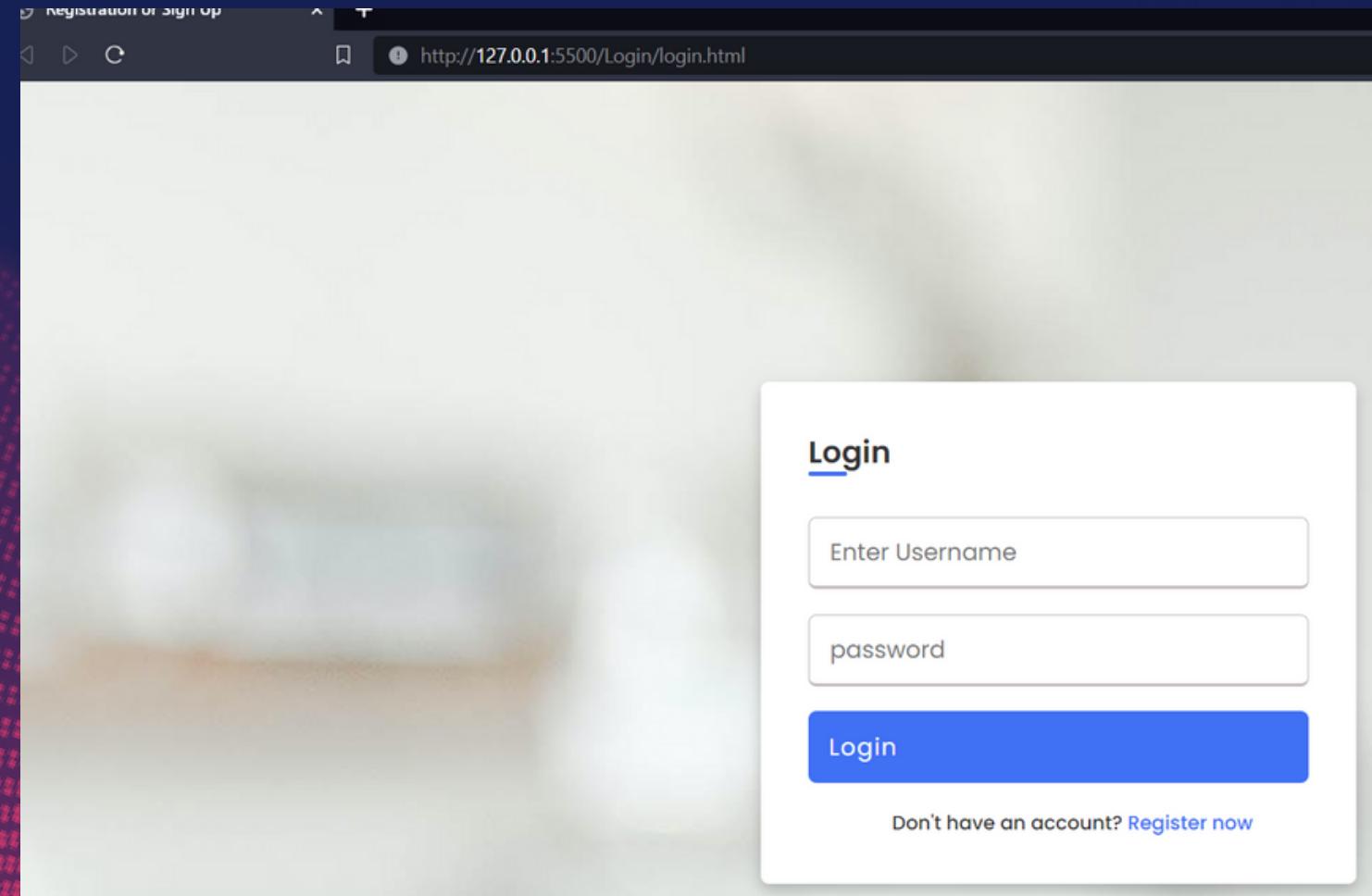
A screenshot of a web browser window titled "E_AssetManagement". The URL in the address bar is "http://127.0.0.1:5500/import%20user/importUser.html". The page has a header "Import User" and a main section with a file input field labeled "Upload JSON or XML File". Below the input field are two blue buttons: "Choose File" and "Upload File".

Upload JSON or XML File

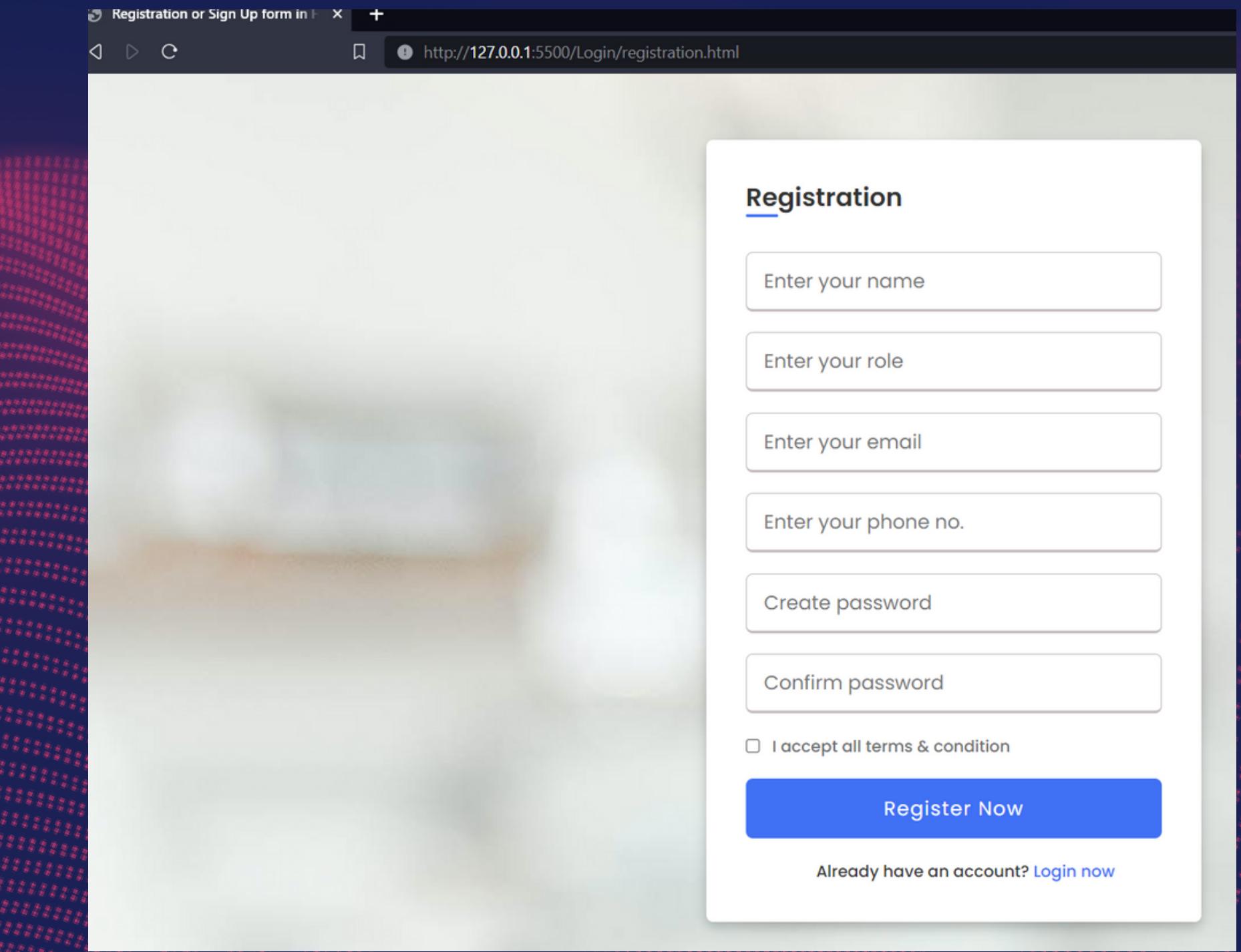
Choose File

Upload File

Frontend Screen Shots:



A screenshot of a web browser window showing the login form. The title bar says "Registration or Sign Up". The URL in the address bar is "http://127.0.0.1:5500/Login/login.html". The form is titled "Login" and contains two input fields: "Enter Username" and "password". Below the fields is a blue "Login" button. At the bottom of the form, there is a link "Don't have an account? [Register now](#)".



A screenshot of a web browser window showing the registration form. The title bar says "Registration or Sign Up form in F". The URL in the address bar is "http://127.0.0.1:5500/Login/registration.html". The form is titled "Registration" and contains seven input fields: "Enter your name", "Enter your role", "Enter your email", "Enter your phone no.", "Create password", and "Confirm password". Below the fields is a checkbox "I accept all terms & condition" and a blue "Register Now" button. At the bottom of the form, there is a link "Already have an account? [Login now](#)".

**Login & Registration
Page**

Frontend Screen Shots:

The screenshot shows the Admin Dashboard of the E_AssetManagement application. The dashboard features a dark blue header with the title "E_AssetManagement" and a sub-header "Dashboard". The top right corner shows a user profile for "admin" with a notification count of 3.

The left sidebar, titled "Action List", contains the following menu items:

- Dashboard
- Asset
- Asset Status
- Asset-History
- Manage User
- Category
- Status
- Settings

The main content area includes several key statistics:

- Category: 4
- Total Assets: 300
- Total Users: 100
- OverDue Assets: 54

A central module titled "Something From the Team" displays a large logo of a stylized letter "E" with leaves, and a welcome message from the "Sentinels Founder Team".

To the right, a chart titled "Assets Handled" shows the percentage completion for different asset types:

Asset Type	Percentage
Mobile	73%
Laptop	62%
Books	54%
Devices	82%
Other	48%

Admin DashBoard.

Frontend Screen Shots:

The screenshot shows a web browser window with the URL <http://127.0.0.1:5500/Admin%20and%20user/admin.html#>. The page title is "Admin". The main content is a "User confirmation" list with four items, each with a user profile picture, name, message, and timestamp. A "Read More" button is at the bottom.

User	Action	Timestamp
Herman Beck	Has returned the asset	12 min ago
John Smith	Has an asset Overdue.	12 min ago
John Smith	Has returned the asset.	12 min ago
John Smith	Has returned the asset.	12 min ago

Action List

- Dashboard ▾
- Asset
- Asset Status ▾
- Asset History
- Manage User ▾
- Category
- Status
- Settings

User confirmation

Herman Beck
Has returned the asset
12 min ago

John Smith
Has an asset Overdue.
12 min ago

John Smith
Has returned the asset.
12 min ago

John Smith
Has returned the asset.
12 min ago

[Read More](#)

Admin DashBoard.

Frontend Screen Shots:

The screenshot shows the User Dashboard of the E_AssetManagement application. The dashboard features a dark blue header with the title "E_AssetManagement" and a sub-header "User". The main content area is titled "Dashboard" and includes four summary cards: "Borrowed Assets" (3), "Due Date" (11 sept 2023), "Fine Issued" (none), and "OverDue Assets" (1). Below these are two expandable sections: "Asset Name" (List of issued Assets/due date) and "Messages". The "Asset Name" section shows a search bar with "Search for assets..." and a "Search" button, listing "Laptop" (23rd September 2023) and "Mobile" (2nd October 2023). The "Messages" section lists two messages from "Admin": "You have one Asset OverDue" (12 min ago) and "Discover from the variety options" (13 min ago). The left sidebar, titled "List", contains links: My Assets, Borrow Asset, Return Asset, Asset History, Manage Profile, and Settings. The top right corner shows a user profile "user" with notifications (2) and a "Log Out" link.

User DashBoard.

Frontend Screen Shots:

The screenshot shows a web browser window for the 'eAsset Asset Management System' at <http://127.0.0.1:5500/index.html>. The page has a dark blue header with the 'eAsset' logo and navigation links for HOME, ABOUT, ASSETS (which is highlighted in blue), LOGIN, and IMPORT USER. The main content area features a large title 'Our Assets' with three sections: 'Laptops', 'Mobiles', and 'Books', each with an icon and a brief description. Below these is another section titled 'Devices' with a description. A red banner at the bottom reads 'User Borrow Menu.'

Our Assets



Laptops

Take control of your laptop fleet with our system. Monitor laptop locations, usage, and maintenance, ensuring your team always has the tools they need to succeed.



Mobiles

Effortlessly track and manage your mobile devices. From smartphones to tablets, our system ensures complete control over your mobile assets, optimizing their usage and maintenance.



Books

Organize and preserve your book inventory with ease. Our system simplifies book management, so you can focus on what matters: knowledge sharing and growth.



Devices

From specialized equipment to everyday devices, our system keeps your assets in check. Gain real-time insights into device status, location, and history for smarter asset management.

User Borrow Menu.

CONCLUSION

CyberAsset Sentinels Product represents the powerful and versatile solution for efficient asset management as well as for tracking. With focus of providing clear visibility into asset availability, location, borrower's information and historical data.