

Asset Management System

OOM mini project



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A java based project on Asset management system

AIM: Develop an web based interface for College Asset management system

Content: UML diagrams:-Use Case diagram, Class diagram, CRC diagram(s), illustrating the design of your program

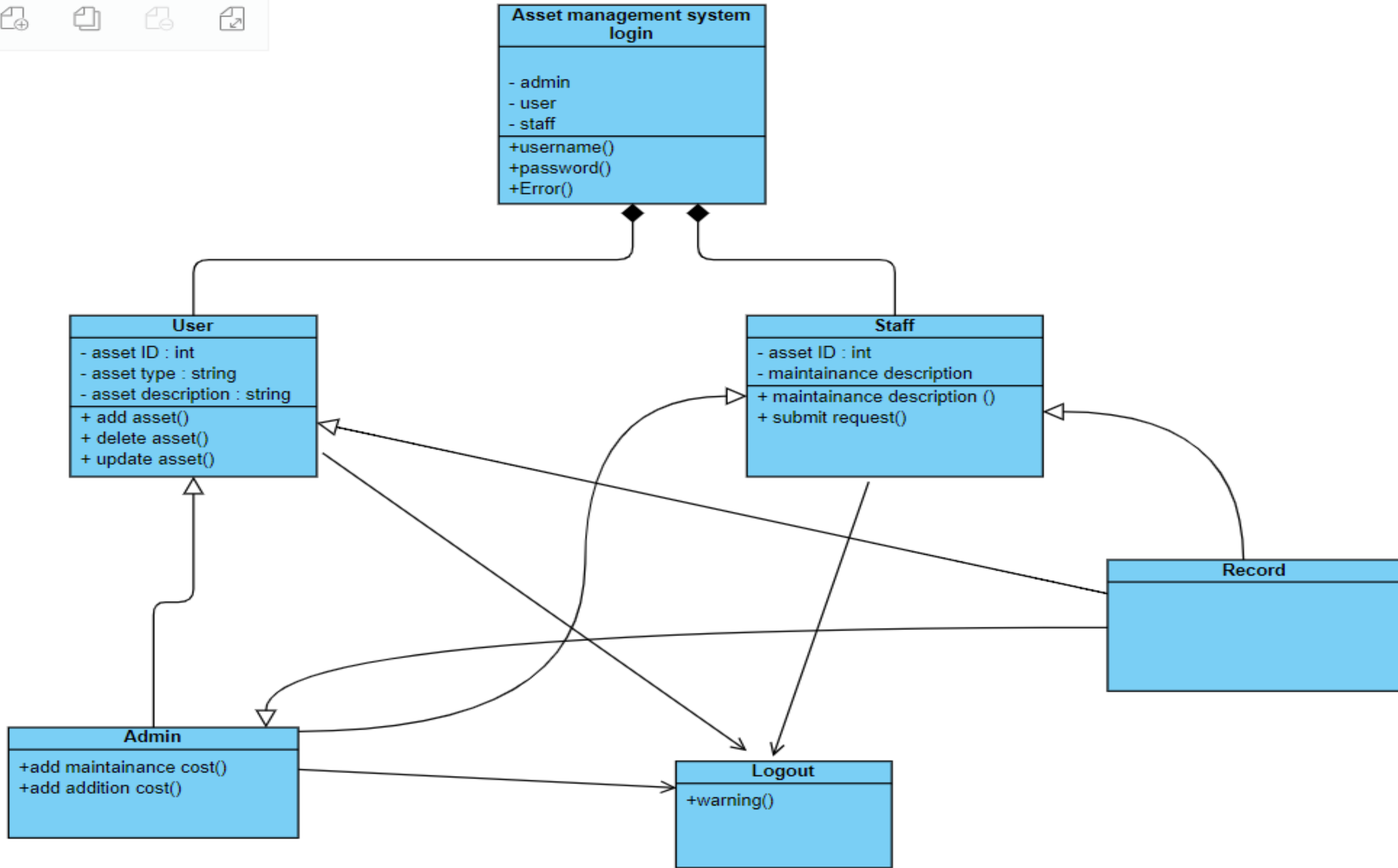
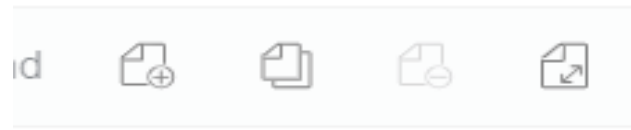
USE CASE DIAGRAM

A UML use case diagram is the primary form of system/software requirements for a new software program underdeveloped. A key concept of use case modeling is that it helps us design a system from the end user's perspective. It is an effective technique for communicating system behavior in the user's terms by specifying all externally visible system behavior.



CLASS DIAGRAM

The class diagrams are widely used in the modeling of object oriented systems because they are the only UML diagrams, which can be mapped directly with object-oriented languages. Class diagram shows a collection of classes, interfaces, associations, collaborations, and constraints. It is also known as a structural diagram.



CRC DIAGRAM

Class-responsibility-collaboration (CRC) cards are a brainstorming tool used in the design of object-oriented software. To create a CRC card, you can begin by writing out a scenario which identifies the major actors and actions which the actors do. Only write out actions and actors specific to that particular scenario. Nouns should turn into the classes of the card, verbs typically turn into the responsibilities of the card, and collaborators are the other cards with which the card will be interacting.

Asset Management System	
Responsibilities:	Collaborations:
<ul style="list-style-type: none"> - Manage GUI components - Handle button actions - Add, edit, and delete assets - Manage file system interactions 	<ul style="list-style-type: none"> - J Button (add Button, edit Button, Delete Button, logout Button, View Data Button) - J Label (title Label, asset ID Label, Asset Type Label, asset Description Label) - J Text Field (asset ID <u>Text Field</u>, Asset Type Text Field) - J Text Area (asset Description Text Area) - J Check Box (checkbox) - Map<String, String> asset Map - List<String> asset List

Staff Maintenance System	
Responsibilities:	Collaborations:
<ul style="list-style-type: none"> - Manage GUI components and layout - Handle button actions and user interactions - Submit maintenance requests - View file data - Update file with maintenance details - Open login page upon logout - Show success and error dialogs 	<ul style="list-style-type: none"> - J Label (title Label, asset ID Label, Maintenance Details Label) - J Text Field (asset ID Text Field) - J Text Area (maintenance Details Text Area) - J Button (submit Button, view Data Button, Logout Button) - Map<String, String> maintenance Map - File (assetData.txt) - Scanner, StringBuilder, J Scroll Pane - J Option Pane (for dialogs) - Logout App (mentioned, details not provided)

Admin Management System	
Responsibilities:	Collaborations:
<ul style="list-style-type: none"> - asset Title Label: J Label - asset ID Label: J Label - asset Type Label: J Label - asset Description Label: J Label - asset ID Text Field: J Text Field - asset Type Text Field: J Text Field - asset Description Text Area: J Text Area - add Button: J Button - edit Button: J Button - delete Button: J Button - duplicate Checkbox: J Check Box - maintenance Title Label: J Label - maintenance Asset ID Label: J Label - maintenance Details Label: J Label - maintenance Asset ID Text Field: J Text Field - maintenance Details Text Area: J Text Area - submit Maintenance Status Button: J Button - logout Button: J Button - view File Data Button: J Button - asset Map: Map<String, String> - asset List: List<String> - maintenance Map: Map<String, String> 	<ul style="list-style-type: none"> + action Performed (Action Event): void + Substring Checker (String): boolean + show Maintenance Status Options (String, String): void + update the File (String, String, String): void + write Updates <u>To</u> File (String): void + display File Data (): void + write To File (String): void + delete File (String): void + update File (String, String, String): void + show Success Message (String): void + show Error Message (String): void + show Maintenance Due Message (): void

Logout App

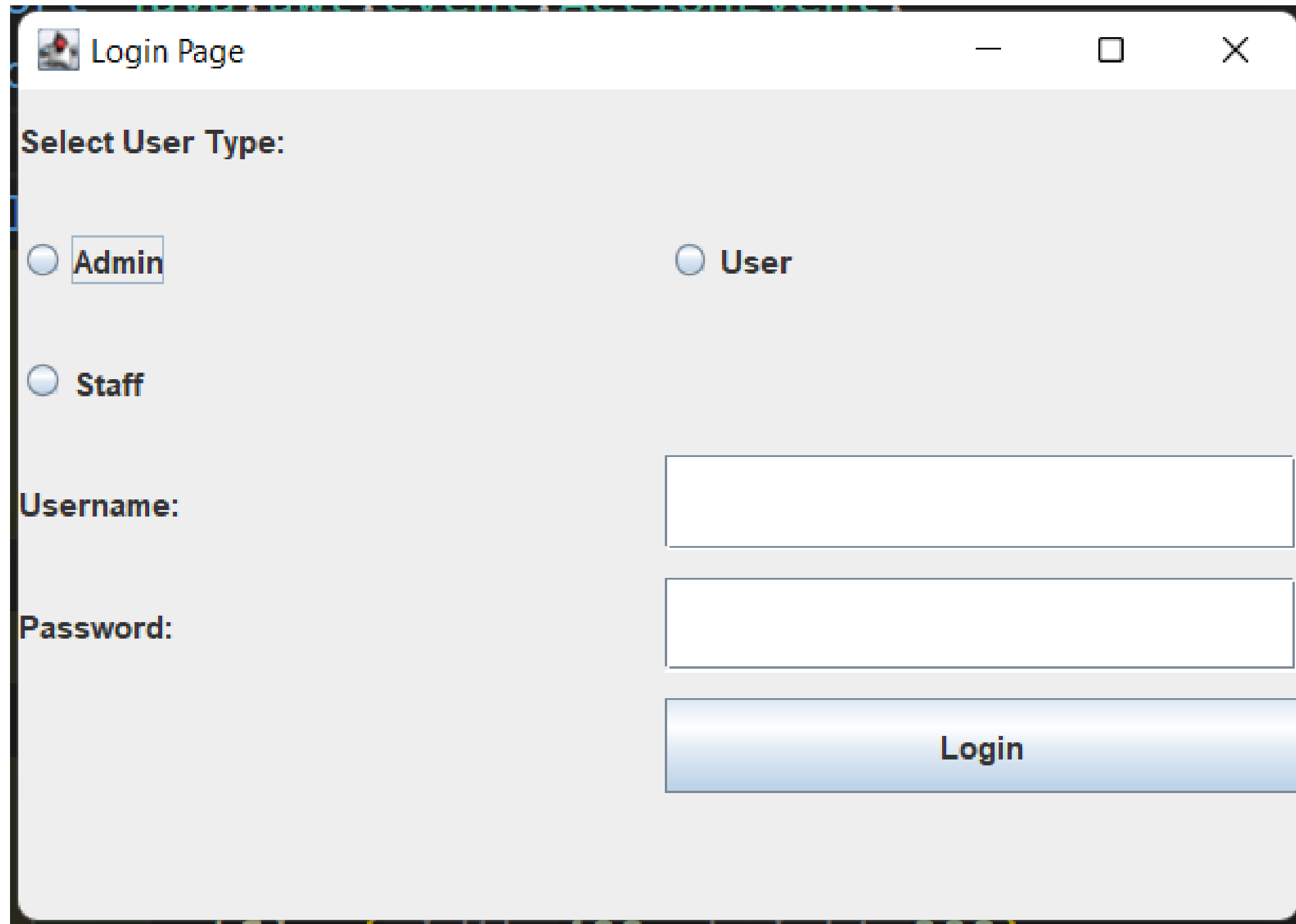
Responsibilities:

- Handle logout process

Collaborations:

None

Login Page :




The image shows a screenshot of a web application window titled "Login Page". The window has a standard Windows-style title bar with minimize, maximize, and close buttons. The main content area is light gray and contains the following elements:

- Select User Type:** A label followed by three radio button options: "Admin", "User", and "Staff". The "Admin" option is selected, indicated by a blue highlight box around the text.
- Username:** A label followed by a white text input field.
- Password:** A label followed by a white text input field.
- Login:** A blue button with a gradient and a white border, centered below the input fields.

Logout Page:



User Interface:

 Dashboard - User

College Asset Management System

Logout

Asset ID:

Asset Type:

Asset Description:

Add Asset

Edit Asset

Delete Asset

☒ Check for duplicates before adding

View File Data

Staff Interface:

Dashboard - Staff

Staff Maintenance System

Logout

Asset ID:

Maintenance Details:

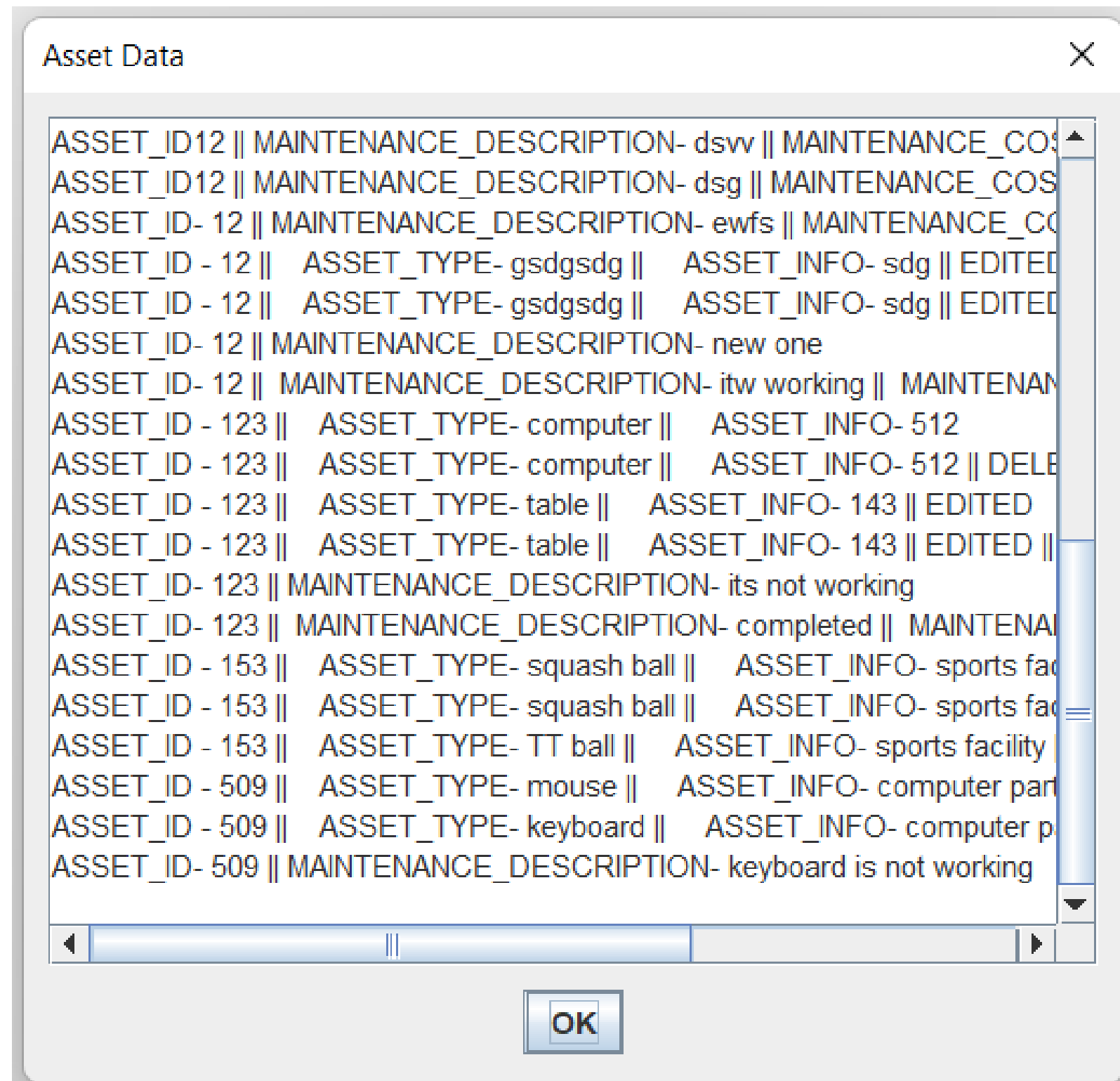
Submit Maintenance Request

View File Data

Admin Interface:

The image shows a web application interface with two main sections: 'Asset Management System' and 'Staff Maintenance System'. The 'Asset Management System' section has input fields for 'Asset ID', 'Asset Type', and 'Asset Description', followed by buttons for 'Add Asset', 'Delete Asset', and 'Edit Asset'. There is also a checkbox for 'Check for duplicates before adding'. The 'Staff Maintenance System' section has input fields for 'Asset ID' and 'Maintenance Details', followed by a 'Submit Maintenance Status' button. The bottom of the screen shows a Windows taskbar with various icons and a system tray area with a 'Logout' button, a 'View File Data' button, and a notification area showing weather and date.

Record of all the operations:



**Thank
You**