Design Documentation

The design is documented by question 3 on the final exam. The lengths of some fields in the Profile table were modified to support encryption, which is now enabled.

User Documentation

Once a user has logged in, said user is shown a menu appropriate to their user type:

Login	bob
Password	•••••
	Submit Reset

Management Menu

Welcome, *bob*

Profile
| View | Edit | New |

Inventory
| View | Add | Remove |

Transaction
| Management | Create |

Log Out

Click one of the menu items to the left to get started.

Internal users are shown the Maintenance menu, where they can perform all operations:

Main Menu

Welcome, *bob*

Profile
View / Edit

Inventory
View

Transaction
Create

Log Out

However, normal users see a reduced functionality menu, like this:

Click one of the menu items to the left to get started.

All users can do things like:

View Inventory

Management Menu

Welcome, *bob*

Profile		
View	Edit	New

Inventory		
View	Add	Remove

Transaction	
Management	Create

Log Out

Inventory			
ID	Publisher ID	Title	Stock
1	7889	book title	23
2	7889	the sequel to the book	23

Create Transaction

Management Menu

Welcome, *bob*

Profile		
View	Edit	New

Inventory		
View	Add	Remove

Transaction	
Management	Create

Log Out

Create Transaction	
Publication ID	7889
Title	book title
Quantity	5
	Submit

… And edit their own profile information.

Management users can do much more: they have access to all Profile, Inventory, and Transaction functions. Some of these are shown below.

Management Menu

Welcome, *bob*

Profile		
View	Edit	New

Inventory		
View	Add	Remove

Transaction	
Management	Create

Log Out

Add Inventory	
Publisher ID	12345
Title	my book
Stock	100
	Submit

Management Menu

Welcome, *bob*

Profile		
View	Edit	New

Inventory		
View	Add	Remove

Transaction	
Management	Create

Log Out

Select a User ID to view
41 ⌄
41
42
46
47

… and then after selecting a user ID, the administrator would see the following:

Management Menu

Welcome, *bob*

Profile		
View	Edit	New

Inventory		
View	Add	Remove

Transaction	
Management	Create

Log Out

Name	Mark
Address	790 Ave
Organization	BOEING
Login ID	MARK34

Management Menu

Welcome, *bob*

Profile

| View | Edit | New |

Inventory

| View | Add | Remove |

Transaction

| Management | Create |

| Log Out |

Select a Transaction

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& Select an action

| Approve | Reject |

Finally, when an error occurs for any user, the message is displayed to the right of the main menu like all other data:

Management Menu

Welcome, *bob*

Profile		
View	Edit	New

Inventory		
View	Add	Remove

Transaction	
Management	Create

Log Out

Could not add profile due to error:

EJB Exception:; nested exception is: java.rmi.RemoteException: Data Access Error: ; nested exception is: java.lang.IllegalArgumentException: Username and password must be between 6 and 15 characte...