# PrinterInterface

#### DataInterface

+loadManager() : ArrayList<Manager>

+saveManager(managerArray ArrayList<Manager>)

+getManager() : ArrayList<Manager>

+loadEMployee() : ArrayList<Employeer>

+saveEmployee(employeeArray ArrayList<Employee>)

+getEmployee() : ArrayList<Employeer>

#### ServerInterface

+loadAdmin() : ArrayList<Admin>

+saveAdmin(adminArray ArrayList<Adminr>)

+getAdmin() : ArrayList<Admin>

+loadCustomer() : ArrayList<Customer>

+saveCustomer(customerArray : ArrayList<Customer>)

+getCustomer() : ArrayList<CUstomerr>

#### AdminView

-btnLogoutActionPerformed (evt : java.awt.event.ActionEvent)

-btnAddActionPerformed (evt : java.awt.event.ActionEvent)

-btnModActionPerformed (evt : java.awt.event.ActionEvent)

-btnDelActionPerformed (evt : java.awt.event.ActionEvent)

#### ManagerView

-btnLogoutActionPerformed (evt : java.awt.event.ActionEvent)

-btnAddActionPerformed (evt : java.awt.event.ActionEvent)

-htnModActionPerformed (evt : iava.awt.event.ActionEvent)

-btnDelActionPerformed (evt : java.awt.event.ActionEvent)

# EmployeeView

-btnLogoutActionPerformed (evt : java.awt.event.ActionEvent)

-btnAddActionPerformed (evt : java.awt.event.ActionEvent)

-btnModActionPerformed

(evt : java.awt.event.ActionEvent)

-btnDelActionPerformed (evt : java.awt.event.ActionEvent)

#### InformationView

loadedFields : boolean

+InformationView() -clearFields() -hasInfo() -customerSetfields() -managerSetFields() -employeeSetFields()

-btnEnterActionPerformed (evt : java.awt.event.ActionEvent)

-btnClearActionPerformed (evt : java.awt.event.ActionEvent)

## LoginView

+public LoginView()

-btnExitActionPerformed (evt : java.awt.event.ActionEvent)

-btnEnterActionPerformed (evt : java.awt.event.ActionEventt)

#### CustomerMod

+arldCustomer( firstname : String, +addCustomer( firstname : String, lastname : String, email : String, username : String, password : String) : boolean

+removeCustome( username : String)

+findCustomer(username : String) : customer

+modCustomer( firstname : String, lastname : String, email : String, username : String, password : String) :

#### EmployeeMod

+addEmployee( firstname : String, lastname : String, email : String, username : String, password : String) : boolean

+removeEmployee( username : String)

+findEmployee( username : String) :

+modEmployee firstname : String, lastname : String, email : String, username : String, password : String)

#### ManagerMod

+addManager( firstname : String, lastname : String, email : String, username : String, password : String) : boolean

removeManager(username : String)

+findManager( username : String) : manager

+modManager( firstname : String, lastname : String, email : String, username : String, password : String)

# ManagerController

+MakeManagerGUI()

# EmployeeController

+MakeEmployeeGUI()

#### LoginController

+UserInput() +MakeLogin()

#### AdminController

+MakeAdminGUI()

#### Admin

-username : String -password : String

+getUsername() : String +setUsername( username : String) +getPassword() : String +setPassword( password : String)

#### Customer

-UUID: String -firstname: String -lastname: String -email: String: String -username: String -password: String -Archived: boolean

+getID() : String
+setID()
+skarchived() : boolean
+skarchived() : boolean
+setArchived() : Archived : boolean)
+getFirstname() : String
+getEmail() : String
+getEmail() : String)
+getEmail() : String)
+getUsername() : String)
+getUsername() : String)
+getUsername() : String)
+getPassword() : String
+setPassword() : String)
+toString() : String)

#### Employee

-UUID : String -firstname : String -lastname : String email : String username : String -password : String -Archived : boolea

+active : boolean
+getID() : String
+setID()
+isArchived() : boolean
+getFirstname() : String
+setLastname(lastname : String)
+getEmail() : String
+setEmail( email : String)
+setUsername( : String)
+setUsername( username : String)
+setUsername( username : String)
+setPassword() : String
+setUsername( username : String)
+setUsername( username : String)
+setUsername( username : String)
+setUsername( username : String)
+setDrassword() : String)
+toString() : String)

Manager

# IRMAmainController

+getChoice() : InformationSelection

+setWindowStatus( status : boolean)

+MakeInfoView()

#### Authentication

+valdateInput( user : String, pass : String) : loginEnum

+testForManager( user : String, pass String) : boolean

+testForEmployee( user : String, pass : String) : boolean

+testForCustomer( user : String, pass : String) : boolean

+testForAdmin( user : String, pass : String) : boolean

### UUldentifier

+aetUUID() : Strina

#### HashPassword

+HashPassword() +encryption(Password : String) : String +decryption(Password : String) : String +Hashed( hashed : String) : String +deHashed( dehashed : String) : String

#### Restriction

+hasLength( data : CharSequence) :

+hasSymbol( data : CharSequence) : boolean

+hasUpperCase( data : CharSequence) : boolean

+hasLowerCase( data : CharSequence) boolean