

## Design for class “User”

<<entity>> User	
- name : string - userID : int - userRole : string - email : string - phoneNumber : string - password : string	
+ createUser() : void + resetPassword(newPassword : string) : void + setRole(role : string) : void + updateRole(role : string) : void	

	Name	Data Type	Default value	Description
1	name	string		The name of the user
2	userID	int		A unique identifier for the user
3	userRole	string		The role of the user
4	email	string		The email address of the user
5	phoneNumber	string		The phone number of the user
6	password	string		The password for the user's account

Table 1. Example of attribute design

	Name	Return Type	Description
1	createUser		Creates a new user with provided attributes
2	setRole		Sets the role of the user
3	resetPassword		Resets the user's password
4	updateRole		Updates the user's role

Table 2. Example of operation design

### Method

```
// Method to create a user
public void createUser(String name, String role, String email, String
phoneNumber, String password) {
    this.name = name;
    this.userRole = role;
    this.email = email;
```

```

        this.phoneNumber = phoneNumber;
        this.password = password;
        System.out.println("User created successfully.");
    }

    // Method to set user role
    public void setRole(String role) {
        this.userRole = role;
        System.out.println("Role set to " + role);
    }

    // Method to reset user password
    public void resetPassword(String newPassword) {
        this.password = newPassword;
        System.out.println("Password reset successfully.");
    }

    // Method to update user role
    public void updateRole(String role) {
        this.userRole = role;
        System.out.println("User role updated to " + role);
    }
}

```

### How to use parameters / attributes

```

private String name;
private int userID;
private String userRole;
private String email;
private String phoneNumber;
private String password;

// Constructor
public User(String name, String userRole, String email, String phoneNumber,
String password) {
    this.name = name;
    this.userRole = userRole;
    this.email = email;
    this.phoneNumber = phoneNumber;
    this.password = password;
}

```

## Design for class “UserManagementScreen”

<<boundary>> <b>UserManagementScreen</b>	
+ requestToCreateUser() : void + sendFailMessage() : void + sendSuccessfulMessage() : void	

	Name	Return Type	Description
1	requestToCreateUser		Requests the creation of a new user
2	sendFailMessage		Sends a failure message in case of errors
3	sendSuccessfulMessage		Sends a success message when user creation succeeds

**Table 2. Example of operation design**

## Method

```

public void requestToCreateUser() {
    System.out.println("Request to create a new user...");
    // Logic to collect user input and send it to controller
}

// Method to send failure message
public void sendFailMessage() {
    System.out.println("User creation failed. Please try again.");
}

// Method to send success message
public void sendSuccessfulMessage() {
    System.out.println("User created successfully!");
}

```

## Design for class “CreateUserController”

<<control>> <b>CreateUserController</b>	
+ sendInformation() : void + checkInformation() : void + requestToCreateUser() : void	

	Name	Return Type	Description
1	sendInformation		Sends the information related to user creation
2	checkInformation		Checks the information entered by the user
3	requestToCreateUser		Requests the creation of a user after verification

**Table 2. Example of operation design**





## Method

```
// Method to send user information to be processed
public void sendInformation(User user) {
    System.out.println("Sending user information to create user...");
    // Logic to send information to the User class for processing
}

// Method to check the information provided by the user
public void checkInformation(String name, String email, String phoneNumber,
String password) {
    if (name.isEmpty() || email.isEmpty() || phoneNumber.isEmpty() ||
password.isEmpty()) {
        System.out.println("All fields are required.");
    } else {
        System.out.println("User information is valid.");
    }
}

// Method to request user creation
public void requestToCreateUser(User user) {
    // Validate the information before passing to createUser
    checkInformation(user.getName(), user.getEmail(), user.getPhoneNumber(),
user.getPassword());
    sendInformation(user);
}
```

## Design for class “InformationForm”

	<<boundary>>	
	<b>InformationForm</b>	
+ createUserInfoForm() : void		
+ fillTheForm(name : string, role : string, email : string, phoneNumber : string, pasword : string) : void		

	Name	Return Type	Description
1	<b>createUserInfoForm</b>		<b>Creates the user information form</b>
2	<b>fillTheForm</b>		<b>Fills the information form with user data</b>

**Table 2. Example of operation design**

### Parameter

Name	Default Value	Description
<b>name</b>		<b>The name of the user</b>
<b>role</b>		<b>The role of the user</b>
<b>email</b>		<b>The email address of the user</b>
<b>phoneNumber</b>		<b>The phone number of the user</b>
<b>password</b>		<b>The password for the user's account</b>

### Method

```

public void createUserInfoForm() {
    System.out.println("Creating user information form...");
    // Logic to create the form (e.g., GUI, console input)
}

// Method to fill out the form with user data
public void fillTheForm(String name, String email, String phoneNumber, String
password) {
    System.out.println("Filling the form with user data...");
    // Logic to set the values in the form (could be filling in a GUI or console-based
inputs)
    System.out.println("User Name: " + name);
    System.out.println("Email: " + email);
    System.out.println("Phone Number: " + phoneNumber);
    System.out.println("Password: " + password);
}

```

### How to use parameters / attributes

```

private String name;
private int userID;
private String userRole;
private String email;
private String phoneNumber;
private String password;

```