# Log in

## 1.1 Class diagram



## 1.2 Class explanation

### 1.2.1 IUserdetailService Interface

**Attributes**

None

**Operations**

*SelectByUsername (string username)*

Check and select the correct username provided

**Parameters and Return**

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Username | string | User ID |
| return | UserdetailInfo | User information |

### 1.2.2 UserDetailService Class

**Attributes**

None

**Operations**

*SelectByUsername (string username)*

Check and select the correct username provided

**Parameters and Return**

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Username | string | User ID |
| return | UserdetailInfo | User information |

### 1.2.3 UserDetailTFM Class

**Attributes**

None

**Operations**

*SelectByUsername (string username)*

Check and select the correct username provided

**Parameters and Return**

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Username | string | User ID |
| return | UserdetailInfo | User information |

### 1.2.4 LoginCtrl Class

**Attributes**

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Type | Visibility | Description |
| IUserdetailService | IUserdetailService | Private |  |

**Operations**

*Login(string username,string password)*

Check and select the correct username and password provided

**Parameters and Return**

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Username | string | User ID |
| Password | string | Password to validate |
| return | UserdetailInfo | User Information |

### 1.2.5 FunctionLib Class

**Attributes**

None

**Operations**

*EncodePassword (string password)*

Encrypt the password user types.

**Parameters and Return**

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Password | string | Password to validate |

## 1.3 Class Sequence

# 

# Switch User

## 2.1 Class diagram



## 2.2 Class explanation

### 2.2.1 IUserdetailService Interface

**Attributes**

None

**Operations**

*SelectByUsername (string username)*

Check and select the correct username provided

**Parameters and Return**

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Username | string | User ID |
| return | UserdetailInfo | User information |

### 2.2.2 UserDetailService Class

**Attributes**

None

**Operations**

*SelectByUsername (string username)*

Check and select the correct username provided

**Parameters and Return**

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Username | string | User ID |
| return | UserdetailInfo | User information |

### 2.2.3 UserDetailTFM Class

**Attributes**

None

**Operations**

*SelectByUsername (string username)*

Check and select the correct username provided

**Parameters and Return**

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Username | string | User ID |
| return | UserdetailInfo | User information |

### 2.2.4 LoginCtrl Class

**Attributes**

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Type | Visibility | Description |
| IUserdetailService | IUserdetailService | Private |  |

**Operations**

*Login(string username,string password)*

Check and select the correct username and password provided

**Parameters and Return**

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Username | string | User ID |
| Password | string | Password to validate |
| return | UserdetailInfo | User Information |

### 2.2.5 FunctionLib Class

**Attributes**

None

**Operations**

*EncodePassword (string password)*

Encrypt the password user types.

**Parameters and Return**

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Password | string | Password to validate |

## 2.3 Class Sequence



# 3.View Help

## 3.1 Class Diagram

## 

## 3.2 Class Explanation

### 3.2.1 ILoadChmFile Interface

**Attributes**

None

**Operations**

*LoadChmFile()*

Load Chm File

**Parameters and Return**

None

### 3.2.2 LoadChmFile Class

*LoadChmFile()*

Load Chm File

**Parameters and Return**

None

### 3.2.3 HelpDisplayCtrl Class

**Attributes**

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Type | Visibility | Description |
| ILoadChmFile | ILoadChmFile | Private | Load Chm File |

**Operations**

*ViewHelp()*

View the help form

**Parameters and Return**

None

### 3.2.4 frmPNRSView Class

**Attributes**

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Type | Visibility | Description |
| helpDisplayCtrl | HelpDisplayCtrl | Private | Call operation in HelpDisplayCtrl form |

**Operations**

*toolStripSearch\_Click(EventArgs e, object o)*

Catch toolStripSearch\_Click event

**Parameters and Return**

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| e | *EventArgs* |  |
| o | object |  |

### 2.2.5 FunctionLib Class

**Attributes**

None

**Operations**

*EncodePassword (string password)*

Encrypt the password user types.

**Parameters and Return**

|  |  |  |
| --- | --- | --- |
| Parameter | Type | Description |
| Password | string | Password to validate |

## 3.3 Class Sequence

