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| RUP Analysis Model Report  for RAM  Issue 2.0  **Real-time Analytical Monitoring Application(RAM)** Team: SE-25/PT-7Team Members:Balasubramanian NarasimhanKaung Myat BoGao ZhiyuNay Lin Aung |
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|  |  |  |  |

Table of Contents

[ 1](#_Toc522468408)

[Team: SE-25/PT-7 1](#_Toc522468409)

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[Nay Lin Aung 1](#_Toc522468414)

[1 Analysis Objects 5](#_Toc522468415)

[1.1 LoginController 5](#_Toc522468416)

[1.2 viewEmployerDetailsScreen 5](#_Toc522468417)

[1.2.1 displayUserDetails() 5](#_Toc522468418)

[1.3 viewEmployerController 5](#_Toc522468419)

[1.3.1 viewEmployerDetailsByid() 5](#_Toc522468420)

[1.4 EmploymentDetails 5](#_Toc522468421)

[1.4.1 Attributes 5](#_Toc522468422)

[2 Use Case Realizations 6](#_Toc522468423)

[2.1 Forgot Password 6](#_Toc522468424)

[2.1.1 Class Diagram for Forgot Password 6](#_Toc522468425)

[2.1.2 Collaboration Diagram for Forgot Password 6](#_Toc522468426)

[2.2 Login 7](#_Toc522468427)

[2.2.1 Class Diagram for Login 7](#_Toc522468428)

[2.2.2 Collaboration Diagram for Login 7](#_Toc522468429)

[2.3 Maintain Persona 8](#_Toc522468430)

[2.3.1 Class Diagram for Maintain Persona 8](#_Toc522468431)

[2.3.2 Collaboration Diagram for Create Persona 8](#_Toc522468432)

[2.3.3 Collaboration Diagram for Update Persona 9](#_Toc522468433)

[2.4 Maintain Station 9](#_Toc522468434)

[2.4.1 Class Diagram for Maintain Station 9](#_Toc522468435)

[2.4.2 Collaboration Diagram for Create Station 10](#_Toc522468436)

[2.4.3 Collaboration Diagram for Modify Station 10](#_Toc522468437)

[2.4.4 Collaboration Diagram for Deactivate Station 11](#_Toc522468438)

[2.5 Maintain Station Config 11](#_Toc522468439)

[2.5.1 Config Class Diagram for Maintain Station 12](#_Toc522468440)

[2.5.2 Collaboration Diagram for Create Station Config 12](#_Toc522468441)

[2.5.3 Collaboration Diagram for Update Station Config 13](#_Toc522468442)

[2.5.4 Collaboration Diagram for Create Station Config 14](#_Toc522468443)

[2.6 Maintain Users 15](#_Toc522468444)

[2.6.1 Class Diagram for Maintain Users 15](#_Toc522468445)

[2.6.2 Collaboration Diagram for Create User 16](#_Toc522468446)

[2.6.3 Collaboration Diagram for Modify user 17](#_Toc522468447)

[2.6.4 Collaboration Diagram for Deactivate user 18](#_Toc522468448)

[2.7 Reset password 19](#_Toc522468449)

[2.7.1 Class Diagram for Reset password 19](#_Toc522468450)

[2.7.2 Collaboration Diagram for Reset password 19](#_Toc522468451)

[2.8 Process device data 20](#_Toc522468452)

[2.8.1 Class Diagram for Process device data 20](#_Toc522468453)

[2.8.2 Collaboration Diagram for Process device data 21](#_Toc522468454)

[2.9 Synchronize structured data 21](#_Toc522468455)

[2.9.1 Class Diagram for Synchronize structured data 21](#_Toc522468456)

[2.9.2 Collaboration Diagram for Synchronize structured data 22](#_Toc522468457)

[2.10 Transform station data 23](#_Toc522468458)

[2.10.1 Class Diagram for Transform station data 23](#_Toc522468459)

[2.10.2 Collaboration Diagram for Transform station data 24](#_Toc522468460)

[2.11 View/Select Persona 25](#_Toc522468461)

[2.11.1 Class Diagram for View/Select Persona 25](#_Toc522468462)

[2.11.2 Collaboration Diagram for View/Select Persona 26](#_Toc522468463)

[2.12 View/Select Station Config 27](#_Toc522468464)

[2.12.1 Class Diagram for View/Select Station Config 27](#_Toc522468465)

[2.12.2 Collaboration Diagram for View/Select Station Config 27](#_Toc522468466)

[2.13 View/Select Station(s) 28](#_Toc522468467)

[2.13.1 Class Diagram for View/Select Station(s) 29](#_Toc522468468)

[2.13.2 Collaboration Diagram for View/Select Station(s) 29](#_Toc522468469)

[2.14 View/Select User(s) 30](#_Toc522468470)

[2.14.1 Class Diagram for View/Select User(s) 30](#_Toc522468471)

[2.14.2 Collaboration Diagram for View/Select User(s) 31](#_Toc522468472)

# Analysis Objects

## LoginController

This control object handles the flows of the Authenticate Users use case.

#### evaluateAccessPrivilege()

Evaluates the access privileges of the user based on his/her assigned roles.

#### login()

Performs login for the user.

#### logout()

Performs logout for the user.

#### validateUserIdPassword()

Validates the user identifier and password.

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## viewEmployerDetailsScreen

This screen is to show the employment detais on the screen

### displayUserDetails()

To display employment details is selected on screen.

## viewEmployerController

This controller is for the get the employment action related class.

### viewEmployerDetailsByid()

To view employment details by providing userid .

## EmploymentDetails

The entity object represents a employment details for the presenter/prodcuer

### Attributes

**Attribute Name Type Documentation**

name String The name of the presenter/producuer

address String The address of the presenter/producuer

jointDate Date The date of the presenter/producuer joined

userid String The userid assigned to the presenter/producer

# Use Case Realization

## Forgot Password

### Class Diagram for Forgot Password



1. Forget password

### Collaboration Diagram for Forgot Password



1. Forget password

Main Workflow

1 'submit email' from ':System user' sent to ':ForgetPasswordScreen'.

1.1 'find user' from ':ForgetPasswordScreen' sent to ':UserList'.

1.2 'read user' from ':UserList' sent to ':User'.

1.3 'send reset password link' from ':ForgetPasswordScreen' sent to ':Email'.

1.4 'display message' from ':ForgetPasswordScreen' sent to ':ForgetPasswordScreen'.

2 'acknowledge' from ':System user' sent to ':ForgetPasswordScreen'.

## Login

### Class Diagram for Login



1. Login

### Collaboration Diagram for Login



1. Login

Main Workflow

1 'submit credentials' from ':System user' sent to ':LoginScreen'.

1.1 'find user' from ':LoginScreen' sent to ':UserList'.

1.2 'read user' from ':UserList' sent to ':User'.

1.3 'read persona' from ':LoginScreen' sent to ':Persona'.

1.4 'read role' from ':LoginScreen' sent to ':Role'.

1.5 'add online user' from ':LoginScreen' sent to ':OnlineUserList'.

1.6 'create' from ':LoginScreen' sent to ':OnlineUser'.

## Maintain Persona

### Class Diagram for Maintain Persona

### Collaboration Diagram for Create Persona



1. Create persona

Main Workflow

1 'submit persona info' from ':Admin' sent to ':PersonaScreen'.

1.1 'add persona' from ':PersonaScreen' sent to ':PersonaList'.

1.2 'read persona' from ':PersonaList' sent to ':Persona'.

1.3 'create' from ':PersonaScreen' sent to ':Persona'.

1.4 'display success' from ':PersonaScreen' sent to ':PersonaScreen'.

2 'acknowledge' from ':Admin' sent to ':PersonaScreen'.

2.1 'close screen' from ':PersonaScreen' sent to ':PersonaScreen'.

### Collaboration Diagram for Update Persona



1. Update persona

Main Workflow

1 'submit persona info' from ':Admin' sent to ':PersonaScreen'.

1.1 'update persona' from ':PersonaScreen' sent to ':Persona'.

1.2 'display success' from ':PersonaScreen' sent to ':PersonaScreen'.

2 'acknowledge' from ':Admin' sent to ':PersonaScreen'.

2.1 'close screen' from ':PersonaScreen' sent to ':PersonaScreen'.

## Maintain Station

### Class Diagram for Maintain Station



1. Maintain station

### Collaboration Diagram for Create Station



1. Create station

Main Workflow

1 'select station config' from ':Admin' sent to ':StationScreen'.

1.1 'select station config' from ':StationScreen' sent to ':StationConfigList'.

1.2 'read station config' from ':StationConfigList' sent to ':StationConfig'.

2 'submit station info' from ':Admin' sent to ':StationScreen'.

2.1 'add station' from ':StationScreen' sent to ':StationList'.

2.2 'create' from ':StationScreen' sent to ':Station'.

2.3 'display success' from ':StationScreen' sent to ':StationScreen'.

3 'acknowledge' from ':Admin' sent to ':StationScreen'.

3.1 'close screen' from ':StationScreen' sent to ':StationScreen'.

### Collaboration Diagram for Modify Station



1. Modify station

Main Workflow

1 'select group' from ':Admin' sent to ':StationScreen'.

1.1 'select station config' from ':StationScreen' sent to ':StationConfigList'.

1.2 'read station config' from ':StationConfigList' sent to ':StationConfig'.

2 'submit device info' from ':Admin' sent to ':StationScreen'.

2.1 'update station' from ':StationScreen' sent to ':Station'.

2.2 'display success' from ':StationScreen' sent to ':StationScreen'.

3 'acknowledge' from ':Admin' sent to ':StationScreen'.

3.1 'close screen' from ':StationScreen' sent to ':StationScreen'.

### Collaboration Diagram for Deactivate Station



1. Deactivate station

Main Workflow

1 'deactivate station' from ':Admin' sent to ':StationScreen'.

1.1 'display confirmation' from ':StationScreen' sent to ':StationScreen'.

2 'confirm' from ':Admin' sent to ':StationScreen'.

2.1 'deactivate' from ':StationScreen' sent to ':Station'.

2.2 'display success' from ':StationScreen' sent to ':StationScreen'.

3 'acknowledge' from ':Admin' sent to ':StationScreen'.

3.1 'close screen' from ':StationScreen' sent to ':StationScreen'.

## Maintain Station Config

### Config Class Diagram for Maintain Station



1. Maintain station config

### Collaboration Diagram for Create Station Config



1. Create station config

Main Workflow

1 'add data config' from ':Admin' sent to ':StationConfigScreen'.

1.1 'add data config' from ':StationConfigScreen' sent to ':DataConfigList'.

1.2 'create' from ':StationConfigScreen' sent to ':DataConfig'.

2 'add health config' from ':Admin' sent to ':StationConfigScreen'.

2.1 'add health config' from ':StationConfigScreen' sent to ':HealthConfigList'.

2.2 'create' from ':StationConfigScreen' sent to ':HealthConfig'.

3 'submit station config info' from ':Admin' sent to ':StationConfigScreen'.

3.1 'create' from ':StationConfigScreen' sent to ':StationConfig'.

3.2 'setHealthConfigList' from ':StationConfigScreen' sent to ':StationConfig'.

3.3 'setDataConfigList' from ':StationConfigScreen' sent to ':StationConfig'.

3.4 'add station config' from ':StationConfigScreen' sent to ':StationConfigList'.

3.5 'display success' from ':StationConfigScreen' sent to ':StationConfigScreen'.

4 'acknowledge' from ':Admin' sent to ':StationConfigScreen'.

4.1 'close screen' from ':StationConfigScreen' sent to ':StationConfigScreen'.

### Collaboration Diagram for Update Station Config



1. Update station config

Main Workflow

1 'add data config' from ':Admin' sent to ':StationConfigScreen'.

1.1 'create' from ':StationConfigScreen' sent to ':DataConfig'.

1.2 'add data config' from ':StationConfigScreen' sent to ':DataConfigList'.

2 'add health config' from ':Admin' sent to ':StationConfigScreen'.

2.1 'create' from ':StationConfigScreen' sent to ':HealthConfig'.

2.2 'add health config' from ':StationConfigScreen' sent to ':HealthConfigList'.

3 'submit station config info' from ':Admin' sent to ':StationConfigScreen'.

3.1 'update station config' from ':StationConfigScreen' sent to ':StationConfig'.

3.2 'display success' from ':StationConfigScreen' sent to ':StationConfigScreen'.

4 'acknowledge' from ':Admin' sent to ':StationConfigScreen'.

4.1 'close screen' from ':StationConfigScreen' sent to ':StationConfigScreen'.

### Collaboration Diagram for Create Station Config



1. Delete station config

Main Workflow

1 'delete station config' from ':Admin' sent to ':StationConfigScreen'.

1.1 'display confirmation' from ':StationConfigScreen' sent to ':StationConfigScreen'.

2 'confirm' from ':Admin' sent to ':StationConfigScreen'.

2.1 'delete' from ':StationConfigScreen' sent to ':StationConfig'.

2.2 'display success' from ':StationConfigScreen' sent to ':StationConfigScreen'.

3 'acknowledge' from ':Admin' sent to ':StationConfigScreen'.

3.1 'close screen' from ':StationConfigScreen' sent to ':StationConfigScreen'.

## Maintain Users

### Class Diagram for Maintain Users



1. Maintain users

### Collaboration Diagram for Create User



1. Create user

Main Workflow

1 'select role' from ':Admin' sent to ':UserScreen'.

1.1 'select role' from ':UserScreen' sent to ':RoleList'.

1.2 'read role' from ':RoleList' sent to ':Role'.

2 'select station' from ':Admin' sent to ':UserScreen'.

2.1 'select station' from ':UserScreen' sent to ''.

2.2 'read station' from '' sent to ''.

3 'select persona' from ':Admin' sent to ':UserScreen'.

3.1 'select persona' from ':UserScreen' sent to ':PersonaList'.

3.2 'read persona' from ':PersonaList' sent to ':Persona'.

4 'submit user info' from ':Admin' sent to ':UserScreen'.

4.1 'add user' from ':UserScreen' sent to ':UserList'.

4.2 'read user' from ':UserList' sent to ':User'.

4.3 'create' from ':UserScreen' sent to ':User'.

4.4 'display success' from ':UserScreen' sent to ':UserScreen'.

5 'acknowledge' from ':Admin' sent to ':UserScreen'.

5.1 'close screen' from ':UserScreen' sent to ':UserScreen'.

### Collaboration Diagram for Modify user



1. Modify user

Main Workflow

1 'select role' from ':Admin' sent to ':UserScreen'.

1.1 'select role' from ':UserScreen' sent to ':RoleList'.

1.2 'read role' from ':RoleList' sent to ':Role'.

1 'select role' from ':Admin' sent to ':UserScreen'.

1.1 'select role' from ':UserScreen' sent to ':RoleList'.

1.2 'read role' from ':RoleList' sent to ':Role'.

2 'select station' from ':Admin' sent to ':UserScreen'.

2.1 'select station' from ':UserScreen' sent to ''.

2.2 'read station' from '' sent to ''.

3 'select persona' from ':Admin' sent to ':UserScreen'.

3.1 'select persona' from ':UserScreen' sent to ':PersonaList'.

3.2 'read persona' from ':PersonaList' sent to ':Persona'.

4 'submit user info' from ':Admin' sent to ':UserScreen'.

4.1 'update user' from ':UserScreen' sent to ':User'.

4.2 'display success' from ':UserScreen' sent to ':UserScreen'.

5 'acknowledge' from ':Admin' sent to ':UserScreen'.

5.1 'close screen' from ':UserScreen' sent to ':UserScreen'.

### Collaboration Diagram for Deactivate user



1. Dactivate user

Main Workflow

1 'deactivate user' from ':Admin' sent to ':UserScreen'.

1.1 'display confirmation' from ':UserScreen' sent to ':UserScreen'.

2 'confirm' from ':Admin' sent to ':UserScreen'.

2.1 'deactivate user' from ':UserScreen' sent to ':User'.

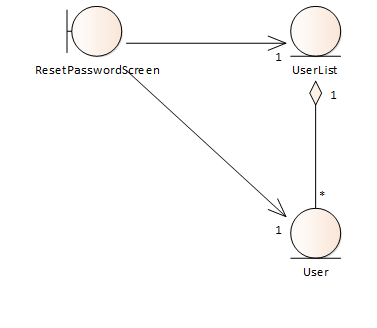
2.2 'display success' from ':UserScreen' sent to ':UserScreen'.

3 'acknowledge' from ':Admin' sent to ':UserScreen'.

3.1 'close screen' from ':UserScreen' sent to ':UserScreen'.

## Reset password

### Class Diagram for Reset password



1. Reset password

### Collaboration Diagram for Reset password



1. Reset password

Main Workflow

1 'submit new password' from ':System user' sent to ':ResetPasswordScreen'.

1.1 'find user' from ':ResetPasswordScreen' sent to ':UserList'.

1.2 'read user' from ':UserList' sent to ':User'.

1.3 'update password' from ':ResetPasswordScreen' sent to ':User'.

1.4 'display success message' from ':ResetPasswordScreen' sent to ':ResetPasswordScreen'.

2 'acknowledge' from ':System user' sent to ':ResetPasswordScreen'.

## Process device data

### Class Diagram for Process device data



1. Process device data

### Collaboration Diagram for Process device data



1. Process device data

Main Workflow

1 'send data' from ':Device' sent to ':AWSIoT'.

1.1 'create' from ':AWSIoT' sent to ':StationRawData'.

1.2 'add raw data' from ':AWSIoT' sent to ':StationRawDataList'.

## Synchronize structured data

### Class Diagram for Synchronize structured data



1. Synchronize structured data

### Collaboration Diagram for Synchronize structured data



1. Synchronize structured data

Main Workflow

1 'get online users' from ':SynchronizationSchedulerJob' sent to ':OnlineUserList'.

1.1 'read online user' from ':OnlineUserList' sent to ':OnlineUser'.

1.2 'read online user' from ':SynchronizationSchedulerJob' sent to ':OnlineUser'.

1.3 'get assigned stations' from ':SynchronizationSchedulerJob' sent to ''.

1.4 'read station' from '' sent to ''.

1.5 'read station' from ':SynchronizationSchedulerJob' sent to ''.

1.6 'get device data' from ':SynchronizationSchedulerJob' sent to ':OneSecondStationDataList'.

1.7 'read device data' from ':OneSecondStationDataList' sent to ':OneSecondStationData'.

1.8 'read device data' from ':SynchronizationSchedulerJob' sent to ':OneSecondStationData'.

1.9 'get device health device data' from ':SynchronizationSchedulerJob' sent to ':StationHealthDataList'.

1.10 'read device health data' from ':StationHealthDataList' sent to ':StationHealthData'.

1.11 'read device health data' from ':SynchronizationSchedulerJob' sent to ':StationHealthData'.

1.12 'send data' from ':SynchronizationSchedulerJob' sent to ':DashboardScreen'.

## Transform station data

### Class Diagram for Transform station data



1. Transform station data Class Diagram for

### Collaboration Diagram for Transform station data



1. Transform station data Collaboration Diagram for

Main Workflow

1 'get raw data' from ':Logstash' sent to ':StationRawDataList'.

1.1 'read station raw data' from ':StationRawDataList' sent to ':StationRawData'.

1.2 'read station raw data' from ':Logstash' sent to ':StationRawData'.

1.3 'transform raw data' from ':Logstash' sent to ':Logstash'.

1.4 'create' from ':Logstash' sent to ':StationHealthData'.

1.5 'add station health data' from ':Logstash' sent to ':StationHealthDataList'.

1.6 'create' from ':Logstash' sent to ':OneMinuteStationData'.

1.7 'add one minute station data' from ':Logstash' sent to ':OneMinuteStationDataList'.

1.8 'create' from ':Logstash' sent to ':OneSecondStationData'.

1.9 'add one second station data' from ':Logstash' sent to ':OneSecondStationDataList'.

## View/Select Persona

### Class Diagram for View/Select Persona



1. View/select persona

### Collaboration Diagram for View/Select Persona

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1. View/select persona

Main Workflow

1 'load personas' from ':PersonaListScreen' sent to ':PersonaList'.

1.1 'read persona' from ':PersonaList' sent to ':Persona'.

1.2 'display personas' from ':PersonaListScreen' sent to ':PersonaListScreen'.

1.3 'read persona' from ':PersonaListScreen' sent to ':Persona'.

2 'select persona' from ':Admin' sent to ':PersonaListScreen'.

2.1 'show persona screen' from ':PersonaListScreen' sent to ':PersonaScreen'.

2.2 'display persona data' from ':PersonaScreen' sent to ':PersonaScreen'.

2.3 'read data' from ':PersonaScreen' sent to ':Persona'.

3 'acknowledge' from ':Admin' sent to ':PersonaScreen'.

3.1 'close screen' from ':PersonaScreen' sent to ':PersonaScreen'.

3.2 'show persona list screen' from ':PersonaScreen' sent to ':PersonaListScreen'.

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## View/Select Station Config

### Class Diagram for View/Select Station Config



1. View/select Station Config Class Diagram for

### Collaboration Diagram for View/Select Station Config



1. View/select Station Config Collaboration Diagram for

Main Workflow

1 'load station configs' from ':StationConfigListScreen' sent to ':StationConfigList'.

1.1 'read station config' from ':StationConfigList' sent to ':StationConfig'.

1.2 'display station configs' from ':StationConfigListScreen' sent to ':StationConfigListScreen'.

1.3 'read station config' from ':StationConfigListScreen' sent to ':StationConfig'.

2 'select station group' from ':Admin' sent to ':StationConfigListScreen'.

2.1 'show station config screen' from ':StationConfigListScreen' sent to ':StationConfigScreen'.

2.2 'display station config data' from ':StationConfigScreen' sent to ':StationConfigScreen'.

2.3 'read station config' from ':StationConfigScreen' sent to ':StationConfig'.

2.4 'getDataConfigList' from ':StationConfigScreen' sent to ':StationConfig'.

2.5 'getHealthConfigList' from ':StationConfigScreen' sent to ':StationConfig'.

2.6 'get data configs' from ':StationConfigScreen' sent to ':DataConfigList'.

2.7 'read data config' from ':DataConfigList' sent to ':DataConfig'.

2.8 'read data config' from ':StationConfigScreen' sent to ':DataConfig'.

2.9 'get health configs' from ':StationConfigScreen' sent to ':HealthConfigList'.

2.10 'read health config' from ':HealthConfigList' sent to ':HealthConfig'.

2.11 'read health config' from ':StationConfigScreen' sent to ':HealthConfig'.

3 'acknowledge' from ':Admin' sent to ':StationConfigScreen'.

3.1 'close screen' from ':StationConfigScreen' sent to ':StationConfigScreen'.

3.2 'show station config list screen' from ':StationConfigScreen' sent to ':StationConfigListScreen'.

## View/Select Station(s)

### Class Diagram for View/Select Station(s)



1. View/select Station(s) Class Diagram for

### Collaboration Diagram for View/Select Station(s)



1. View/select Station(s) Collaboration Diagram for

Main Workflow

1 'load stations' from ':StationListScreen' sent to ':StationList'.

1.1 'read station' from ':StationList' sent to ':Station'.

1.2 'display stations' from ':StationListScreen' sent to ':StationListScreen'.

1.3 'read device' from ':StationListScreen' sent to ':Station'.

2 'submit station name' from ':Admin' sent to ':StationListScreen'.

2.1 'find stations' from ':StationListScreen' sent to ':StationList'.

2.2 'read station' from ':StationList' sent to ':Station'.

2.3 'display stations' from ':StationListScreen' sent to ':StationListScreen'.

2.4 'read station' from ':StationListScreen' sent to ':Station'.

3 'select station' from ':Admin' sent to ':StationListScreen'.

3.1 'show station screen' from ':StationListScreen' sent to ':StationScreen'.

3.2 'load station groups' from ':StationScreen' sent to ':StationConfigList'.

3.3 'read station group' from ':StationConfigList' sent to ':StationConfig'.

3.4 'display station data' from ':StationScreen' sent to ':StationScreen'.

3.5 'read device' from ':StationScreen' sent to ':Station'.

4 'acknowledge' from ':Admin' sent to ':StationScreen'.

4.1 'read station group' from ':StationScreen' sent to ':StationConfig'.

4.2 'close screen' from ':StationScreen' sent to ':StationScreen'.

4.3 'show station list screen' from ':StationScreen' sent to ':StationListScreen'.

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## View/Select User(s)

### Class Diagram for View/Select User(s)



1. View/select user(s) Class Diagram for

### Collaboration Diagram for View/Select User(s)



1. View/select user(s) Collaboration Diagram for

Main Workflow

1 'load users' from ':UserListScreen' sent to ':UserList'.

1.1 'read user' from ':UserList' sent to ':User'.

1.2 'display users' from ':UserListScreen' sent to ':UserListScreen'.

2 'submit user name' from ':Admin' sent to ':UserListScreen'.

1.3 'read user' from ':UserListScreen' sent to ':User'.

2.1 'find users' from ':UserListScreen' sent to ':UserList'.

2.2 'read user' from ':UserList' sent to ':User'.

3 'select user' from ':Admin' sent to ':UserListScreen'.

3.1 'show user screen' from ':UserListScreen' sent to ':UserScreen'.

3.2 'load roles' from ':UserScreen' sent to ':RoleList'.

3.3 'read role' from ':RoleList' sent to ':Role'.

3.4 'load personas' from ':UserScreen' sent to ':PersonaList'.

3.5 'read persona' from ':PersonaList' sent to ':Persona'.

3.6 'display users' from ':UserListScreen' sent to ':UserListScreen'.

3.7 'read user' from ':UserListScreen' sent to ':User'.

3.8 'display user data' from ':UserScreen' sent to ':UserScreen'.

3.9 'read user' from ':UserScreen' sent to ':User'.

3.10 'read role' from ':UserScreen' sent to ':Role'.

3.11 'read persona' from ':UserScreen' sent to ':Persona'.

3.12 'get assigned stations' from ':UserScreen' sent to ''.

3.13 'read station' from '' sent to ''.

3.14 'read station' from ':UserScreen' sent to ''.

4 'acknowledge' from ':Admin' sent to ':UserScreen'.

4.1 'close screen' from ':UserScreen' sent to ':UserScreen'.

4.2 'show user list screen' from ':UserScreen' sent to ':UserListScreen'.