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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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# 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'.

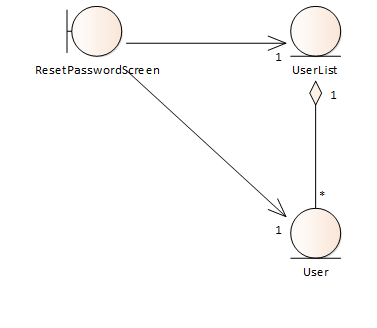
2.2 'display success' from ':UserScreen' sent to ':UserScreen'.

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'.