AREA_Back

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

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Chapter 2

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2.1 Class List

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Chapter 3

Class Documentation

3.1 area.server.AREA_Back.controller.AboutController Class Reference

Public Member Functions

- ResponseEntity< Map< String, Object > > **getAbout** ()

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/controller/AboutController.java

3.2 area.server.AREA_Back.entity.ActionDefinition Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/entity/ActionDefinition.java

3.3 area.server.AREA_Back.controller.ActionDefinitionController Class Reference

Public Member Functions

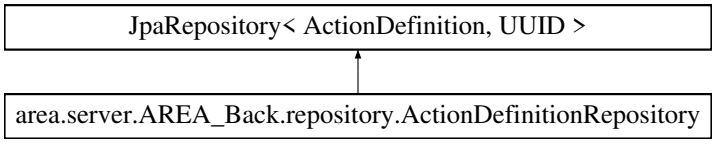
- ResponseEntity< Page< ActionDefinitionResponse > > **getAllActionDefinitions** (@Parameter(description="Page number (starts at 0)") @RequestParam(defaultValue="0") int page, @Parameter(description="Page size") @RequestParam(defaultValue="20") int size, @Parameter(description="Sort field") @RequestParam(defaultValue="name") String sortBy, @Parameter(description="Sort direction (asc or desc)") @RequestParam(defaultValue="asc") String sortDir)
- ResponseEntity< ActionDefinitionResponse > **getActionDefinitionById** (@PathVariable UUID id)
- ResponseEntity< List< ActionDefinitionResponse > > **getActionDefinitionsByServiceKey** (@Path↩ Variable String serviceKey)
- ResponseEntity< List< ActionDefinitionResponse > > **getEventCapableActions** ()
- ResponseEntity< List< ActionDefinitionResponse > > **getExecutableActions** ()

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/controller/ActionDefinitionController.java

3.4 area.server.AREA_Back.repository.ActionDefinitionRepository Interface Reference

Inheritance diagram for area.server.AREA_Back.repository.ActionDefinitionRepository:



Public Member Functions

- Optional< ActionDefinition > findByServiceAndKey (Service service, String key)
- List< ActionDefinition > findByService (Service service)
- List< ActionDefinition > findByServiceAndVersion (Service service, Integer version)
- List< ActionDefinition > findEventCapableActions ()
- List< ActionDefinition > findExecutableActions ()
- List< ActionDefinition > findByServiceKey (@Param("serviceKey") String serviceKey)

3.4.1 Member Function Documentation

3.4.1.1 findByService()

```
List< ActionDefinition > area.server.AREA_Back.repository.ActionDefinitionRepository.findBy↩
Service (
            Service service)
```

Find action definitions by service

3.4.1.2 findByServiceAndKey()

```
Optional< ActionDefinition > area.server.AREA_Back.repository.ActionDefinitionRepository.↩
findByServiceAndKey (
            Service service,
            String key)
```

Find action definition by service and key

3.4.1.3 findByServiceAndVersion()

```
List< ActionDefinition > area.server.AREA_Back.repository.ActionDefinitionRepository.findBy↩
ServiceAndVersion (
            Service service,
            Integer version)
```

Find action definitions by service and version

3.4.1.4 findByServiceKey()

```
List< ActionDefinition > area.server.AREA_Back.repository.ActionDefinitionRepository.findBy↩
ServiceKey (
            @Param("serviceKey") String serviceKey)
```

Find action definitions by service key

3.4.1.5 findEventCapableActions()

```
List< ActionDefinition > area.server.AREA_Back.repository.ActionDefinitionRepository.find↩
EventCapableActions ()
```

Find event-capable action definitions

3.4.1.6 findExecutableActions()

```
List< ActionDefinition > area.server.AREA_Back.repository.ActionDefinitionRepository.find↩
ExecutableActions ()
```

Find executable action definitions

The documentation for this interface was generated from the following file:

- src/main/java/area/server/AREA_Back/repository/ActionDefinitionRepository.java

3.5 area.server.AREA_Back.dto.ActionDefinitionResponse Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/ActionDefinitionResponse.java

3.6 area.server.AREA_Back.entity.ActionInstance Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/entity/ActionInstance.java

3.7 area.server.AREA_Back.controller.ActionInstanceController Class Reference

Public Member Functions

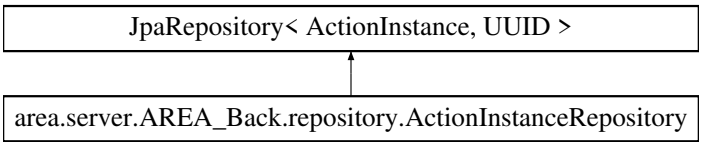
- ResponseEntity< List< ActionInstanceResponse > > **getActionInstancesByUser** (@PathVariable UUID userId)
- ResponseEntity< List< ActionInstanceResponse > > **getActionInstancesByArea** (@PathVariable UUID areaId)
- ResponseEntity< ActionInstanceResponse > **getActionInstanceById** (@PathVariable UUID id)
- ResponseEntity< ActionInstanceResponse > **createActionInstance** (@Valid @RequestBody CreateActionInstanceRequest request)
- ResponseEntity< ActionInstanceResponse > **toggleActionInstance** (@PathVariable UUID id)
- ResponseEntity< Void > **deleteActionInstance** (@PathVariable UUID id)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/controller/ActionInstanceController.java

3.8 area.server.AREA_Back.repository.ActionInstanceRepository Interface Reference

Inheritance diagram for area.server.AREA_Back.repository.ActionInstanceRepository:



Public Member Functions

- List< ActionInstance > findByUser (User user)
- List< ActionInstance > findByArea (Area area)
- List< ActionInstance > findEnabledByUser (@Param("user") User user)
- List< ActionInstance > findEnabledByArea (@Param("area") Area area)
- long countByUser (User user)
- long countByArea (Area area)
- List< ActionInstance > findActiveGitHubActionInstances ()
- List< ActionInstance > findEnabledActionInstancesByUserAndService (@Param("userId") UUID userId, @Param("serviceKey") String serviceKey)
- List< ActionInstance > findEnabledActionInstancesByService (@Param("serviceKey") String serviceKey)
- java.util.Optional< ActionInstance > findByIdWithActionDefinition (@Param("id") UUID id)
- List< ActionInstance > findReactionsByArea (@Param("area") Area area)

3.8.1 Member Function Documentation

3.8.1.1 countByArea()

```
long area.server.AREA_Back.repository.ActionInstanceRepository.countByArea (
            Area area)
```

Count action instances by area

3.8.1.2 countByUser()

```
long area.server.AREA_Back.repository.ActionInstanceRepository.countByUser (
            User user)
```

Count action instances by user

3.8.1.3 findActiveGitHubActionInstances()

```
List< ActionInstance > area.server.AREA_Back.repository.ActionInstanceRepository.findActive↩
GitHubActionInstances ()
```

Find active GitHub action instances (event-capable actions with POLL activation mode)

3.8.1.4 findByArea()

```
List< ActionInstance > area.server.AREA_Back.repository.ActionInstanceRepository.findByArea (
            Area area)
```

Find action instances by area

3.8.1.5 findByIdWithActionDefinition()

```
java.util.Optional< ActionInstance > area.server.AREA_Back.repository.ActionInstanceRepository.↩
findByIdWithActionDefinition (
            @Param("id") UUID id)
```

Find action instance with all relations loaded (for execution)

3.8.1.6 findByUser()

```
List< ActionInstance > area.server.AREA_Back.repository.ActionInstanceRepository.findByUser (
            User user)
```

Find action instances by user

3.8.1.7 findEnabledActionInstancesByService()

```
List< ActionInstance > area.server.AREA_Back.repository.ActionInstanceRepository.findEnabled↩
ActionInstancesByService (
            @Param("serviceKey") String serviceKey)
```

Find enabled action instances by service key

3.8.1.8 findEnabledActionInstancesByUserAndService()

```
List< ActionInstance > area.server.AREA_Back.repository.ActionInstanceRepository.findEnabled↩
ActionInstancesByUserAndService (
            @Param("userId") UUID userId,
            @Param("serviceKey") String serviceKey)
```

Find enabled action instances by user and service key

3.8.1.9 findEnabledByArea()

```
List< ActionInstance > area.server.AREA_Back.repository.ActionInstanceRepository.findEnabled↩
ByArea (
            @Param("area") Area area)
```

Find enabled action instances by area

3.8.1.10 findEnabledByUser()

```
List< ActionInstance > area.server.AREA_Back.repository.ActionInstanceRepository.findEnabled↩
ByUser (
            @Param("user") User user)
```

Find enabled action instances by user

3.8.1.11 findReactionsByArea()

```
List< ActionInstance > area.server.AREA_Back.repository.ActionInstanceRepository.findReactions↩
ByArea (
            @Param("area") Area area)
```

Find reaction instances (executable actions) for an area with all relations loaded

The documentation for this interface was generated from the following file:

- src/main/java/area/server/AREA_Back/repository/ActionInstanceRepository.java

3.9 area.server.AREA_Back.dto.ActionInstanceResponse Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/ActionInstanceResponse.java

3.10 area.server.AREA_Back.entity.ActionLink Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/entity/ActionLink.java

3.11 area.server.AREA_Back.controller.ActionLinkController Class Reference

Public Member Functions

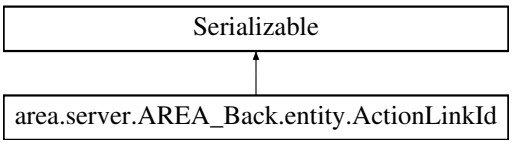
- ResponseEntity< ActionLinkResponse > **createActionLink** (@Parameter(description="Area ID") @Path↩ Variable UUID areaId, @Valid @RequestBody CreateActionLinkRequest request, HttpServletRequest http↩ Request)
- ResponseEntity< List< ActionLinkResponse > > **createActionLinksBatch** (@Parameter(description="Area ID") @PathVariable UUID areaId, @Valid @RequestBody BatchCreateActionLinksRequest request, Http↩ ServletRequest httpRequest)
- ResponseEntity< List< ActionLinkResponse > > **getActionLinksByArea** (@Parameter(description="Area ID") @PathVariable UUID areaId, HttpServletRequest httpRequest)
- ResponseEntity< Void > **deleteActionLink** (@Parameter(description="Area ID") @PathVariable UUID areaId, @Parameter(description="Source action ID") @PathVariable UUID sourceActionId, @Parameter(description="Target action ID") @PathVariable UUID targetActionId, HttpServletRequest httpRequest)
- ResponseEntity< Void > **deleteAllActionLinksByArea** (@Parameter(description="Area ID") @Path↩ Variable UUID areaId, HttpServletRequest httpRequest)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/controller/ActionLinkController.java

3.12 area.server.AREA_Back.entity.ActionLinkId Class Reference

Inheritance diagram for area.server.AREA_Back.entity.ActionLinkId:

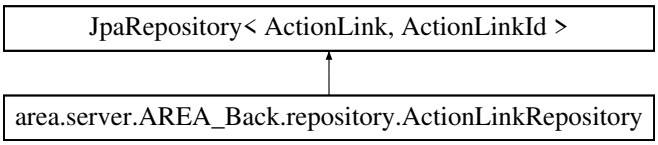


The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/entity/ActionLinkId.java

3.13 area.server.AREA_Back.repository.ActionLinkRepository Interface Reference

Inheritance diagram for area.server.AREA_Back.repository.ActionLinkRepository:



Public Member Functions

- List< ActionLink > findByAreaOrderByOrder (Area area)
- List< ActionLink > findByAreaIdOrderByOrder (@Param("areaId") UUID areaId)
- List< ActionLink > findBySourceActionInstance (ActionInstance sourceActionInstance)
- List< ActionLink > findBySourceActionInstanceId (UUID sourceActionInstanceId)
- List< ActionLink > findBySourceActionInstanceIdWithTargetFetch (@Param("sourceActionInstanceId") UUID sourceActionInstanceId)
- List< ActionLink > findByTargetActionInstance (ActionInstance targetActionInstance)
- List< ActionLink > findByActionInstance (@Param("actionInstance") ActionInstance actionInstance)
- List< ActionLink > findByActionInstanceId (@Param("actionInstanceId") UUID actionInstanceId)
- boolean existsBySourceActionInstanceAndTargetActionInstance (ActionInstance sourceActionInstance, ActionInstance targetActionInstance)
- void deleteByArea (Area area)
- void deleteByActionInstance (@Param("actionInstance") ActionInstance actionInstance)

3.13.1 Member Function Documentation

3.13.1.1 deleteByActionInstance()

```
void area.server.AREA_Back.repository.ActionLinkRepository.deleteByActionInstance (
            @Param("actionInstance") ActionInstance actionInstance)
```

Deletes all links involving a specific action

3.13.1.2 deleteByArea()

```
void area.server.AREA_Back.repository.ActionLinkRepository.deleteByArea (
            Area area)
```

Deletes all links for a given area

3.13.1.3 existsBySourceActionInstanceAndTargetActionInstance()

```
boolean area.server.AREA_Back.repository.ActionLinkRepository.existsBySourceActionInstance↩
AndTargetActionInstance (
            ActionInstance sourceActionInstance,
            ActionInstance targetActionInstance)
```

Checks if a link exists between two actions

3.13.1.4 findByActionInstance()

```
List< ActionLink > area.server.AREA_Back.repository.ActionLinkRepository.findByActionInstance
(
            @Param("actionInstance") ActionInstance actionInstance)
```

Finds all links involving a specific action (source or target)

3.13.1.5 findByActionInstanceId()

```
List< ActionLink > area.server.AREA_Back.repository.ActionLinkRepository.findByActionInstance↩
Id (
            @Param("actionInstanceId") UUID actionInstanceId)
```

Finds all links involving a specific action by its ID (source or target)

3.13.1.6 findByAreaIdOrderByOrder()

```
List< ActionLink > area.server.AREA_Back.repository.ActionLinkRepository.findByAreaIdOrderBy↩
Order (
            @Param("areaId") UUID areaId)
```

Finds all links for a given area by its ID

3.13.1.7 findByAreaOrderByOrder()

```
List< ActionLink > area.server.AREA_Back.repository.ActionLinkRepository.findByAreaOrderBy↩
Order (
            Area area)
```

Finds all links for a given area

3.13.1.8 findBySourceActionInstance()

```
List< ActionLink > area.server.AREA_Back.repository.ActionLinkRepository.findBySourceAction↩
Instance (
            ActionInstance sourceActionInstance)
```

Finds all links where an action is the source

3.13.1.9 findBySourceActionInstanceId()

```
List< ActionLink > area.server.AREA_Back.repository.ActionLinkRepository.findBySourceAction↩
InstanceId (
            UUID sourceActionInstanceId)
```

Finds all links where an action is the source by its ID

3.13.1.10 findBySourceActionInstanceIdWithTargetFetch()

```
List< ActionLink > area.server.AREA_Back.repository.ActionLinkRepository.findBySourceAction↩
InstanceIdWithTargetFetch (
            @Param("sourceActionInstanceId") UUID sourceActionInstanceId)
```

Finds all links where an action is the source by its ID with fetch join

3.13.1.11 findByTargetActionInstance()

```
List< ActionLink > area.server.AREA_Back.repository.ActionLinkRepository.findByTargetAction↩
Instance (
            ActionInstance targetActionInstance)
```

Finds all links where an action is the target

The documentation for this interface was generated from the following file:

- src/main/java/area/server/AREA_Back/repository/ActionLinkRepository.java

3.14 area.server.AREA_Back.dto.ActionLinkResponse Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/ActionLinkResponse.java

3.15 area.server.AREA_Back.service.ActionLinkService Class Reference

Public Member Functions

- ActionLinkResponse **createActionLink** (CreateActionLinkRequest request, UUID areaId)
- List< ActionLinkResponse > **createActionLinksBatch** (BatchCreateActionLinksRequest request)
- List< ActionLinkResponse > **getActionLinksByArea** (UUID areaId)
- void **deleteActionLink** (UUID sourceActionInstanceId, UUID targetActionInstanceId)
- void **deleteActionLinksByArea** (UUID areaId)
- List< ActionLinkResponse > **getActionLinksByActionInstance** (UUID actionInstanceId)
- void **triggerLinkedActions** (Execution execution)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/ActionLinkService.java

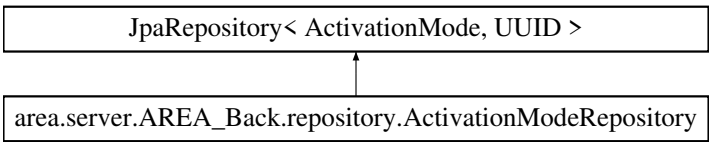
3.16 area.server.AREA_Back.entity.ActivationMode Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/entity/ActivationMode.java

3.17 area.server.AREA_Back.repository.ActivationModeRepository Interface Reference

Inheritance diagram for area.server.AREA_Back.repository.ActivationModeRepository:



Public Member Functions

- List< ActivationMode > findByActionInstance (ActionInstance actionInstance)
- List< ActivationMode > findByActionInstanceAndType (ActionInstance actionInstance, ActivationModeType type)
- List< ActivationMode > findByActionInstanceAndTypeAndEnabled (ActionInstance actionInstance, ActivationModeType type, Boolean enabled)
- List< ActivationMode > findByTypeAndEnabled (ActivationModeType type, Boolean enabled)
- List< ActivationMode > findByTypeAndEnabledWithActionInstance (ActivationModeType type, Boolean enabled)
- List< ActivationMode > findAllEnabled ()
- List< ActivationMode > findByActionInstanceAndEnabled (ActionInstance actionInstance, Boolean enabled)

3.17.1 Member Function Documentation

3.17.1.1 findAllEnabled()

```
List< ActivationMode > area.server.AREA_Back.repository.ActivationModeRepository.findAll↩
Enabled ()
```

Find all enabled activation modes

3.17.1.2 findByActionInstance()

```
List< ActivationMode > area.server.AREA_Back.repository.ActivationModeRepository.findBy↩
ActionInstance (
            ActionInstance actionInstance)
```

Find activation modes by action instance

3.17.1.3 findByActionInstanceAndEnabled()

```
List< ActivationMode > area.server.AREA_Back.repository.ActivationModeRepository.findBy↩
ActionInstanceAndEnabled (
            ActionInstance actionInstance,
            Boolean enabled)
```

Find activation modes by action instance and enabled status

3.17.1.4 findByActionInstanceAndType()

```
List< ActivationMode > area.server.AREA_Back.repository.ActivationModeRepository.findBy↩
ActionInstanceAndType (
            ActionInstance actionInstance,
            ActivationModeType type)
```

Find activation modes by action instance and type

3.17.1.5 findByActionInstanceAndTypeAndEnabled()

```
List< ActivationMode > area.server.AREA_Back.repository.ActivationModeRepository.findBy↩
ActionInstanceAndTypeAndEnabled (
            ActionInstance actionInstance,
            ActivationModeType type,
            Boolean enabled)
```

Find activation modes by action instance, type and enabled status

3.17.1.6 findByTypeAndEnabled()

```
List< ActivationMode > area.server.AREA_Back.repository.ActivationModeRepository.findByType↩
AndEnabled (
            ActivationModeType type,
            Boolean enabled)
```

Find enabled activation modes by type

3.17.1.7 findByTypeAndEnabledWithActionInstance()

```
List< ActivationMode > area.server.AREA_Back.repository.ActivationModeRepository.findByType↩
AndEnabledWithActionInstance (
            ActivationModeType type,
            Boolean enabled)
```

Find enabled activation modes by type with ActionInstance eagerly loaded

The documentation for this interface was generated from the following file:

- src/main/java/area/server/AREA_Back/repository/ActivationModeRepository.java

3.18 area.server.AREA_Back.entity.enums.ActivationModeType Enum Reference

Public Attributes

- **CRON**
- **WEBHOOK**
- **POLL**
- **MANUAL**
- **CHAIN**

The documentation for this enum was generated from the following file:

- src/main/java/area/server/AREA_Back/entity/enums/ActivationModeType.java

3.19 area.server.AREA_Back.config.ActuatorSecurityConfig Class Reference

Public Member Functions

- SecurityFilterChain actuatorSecurityFilterChain (HttpSecurity http) throws Exception

3.19.1 Detailed Description

Configuration for Actuator endpoints security.

3.19.2 Member Function Documentation

3.19.2.1 actuatorSecurityFilterChain()

```
SecurityFilterChain area.server.AREA_Back.config.ActuatorSecurityConfig.actuatorSecurity↩
FilterChain (
            HttpSecurity http) throws Exception
```

Security configuration for actuator endpoints. This allows prometheus endpoint to be accessed without authentication while keeping other actuator endpoints secured.

Parameters

http	the HttpSecurity to configure

Returns

the SecurityFilterChain

Exceptions

Exception	if an error occurs

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/config/ActuatorSecurityConfig.java

3.20 area.server.AREA_Back.AllTestsSuite Class Reference

The documentation for this class was generated from the following file:

- src/test/java/area/server/AREA_Back/AllTestsSuite.java

3.21 area.server.AREA_Back.entity.Area Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/entity/Area.java

3.22 area.server.AREA_Back.dto.AreaActionRequest Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/AreaActionRequest.java

3.23 area.server.AREA_Back.AreaBackApplication Class Reference

Static Public Member Functions

- static void **main** (String[ ] args)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/AreaBackApplication.java

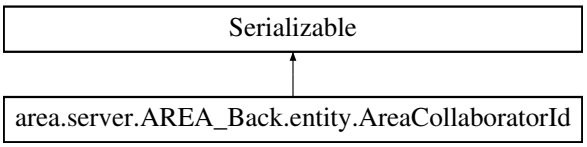
3.24 area.server.AREA_Back.entity.AreaCollaborator Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/entity/AreaCollaborator.java

3.25 area.server.AREA_Back.entity.AreaCollaboratorId Class Reference

Inheritance diagram for area.server.AREA_Back.entity.AreaCollaboratorId:



The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/entity/AreaCollaboratorId.java

3.26 area.server.AREA_Back.controller.AreaController Class Reference

Public Member Functions

- ResponseEntity< Page< AreaResponse > > **getAllAreas** (@RequestParam(defaultValue="0") int page, @RequestParam(defaultValue="20") int size, @RequestParam(defaultValue="id") String sortBy, @Request↩ Param(defaultValue="asc") String sortDir, HttpServletRequest request)
- ResponseEntity< AreaResponse > **getAreaById** (@PathVariable UUID id, HttpServletRequest request)
- ResponseEntity< List< AreaResponse > > **getAreasByUserId** (@PathVariable UUID userId, HttpServlet↩ Request request)
- ResponseEntity< AreaResponse > **createArea** (@Valid @RequestBody CreateAreaRequest request, HttpServletRequest httpRequest)
- ResponseEntity<?> **createAreaWithActions** (@Valid @RequestBody CreateAreaWithActionsRequest request, HttpServletRequest httpRequest)
- ResponseEntity< Map< String, Object > > **triggerArea** (@PathVariable UUID id, @Request↩ Body(required=false) Map< String, Object > inputPayload, HttpServletRequest request)
- ResponseEntity< Map< String, Object > > **getSchedulerStatus** ()
- ResponseEntity< Map< String, Object > > **reloadScheduler** ()
- ResponseEntity< AreaResponse > **updateArea** (@PathVariable UUID id, @Valid @RequestBody CreateAreaRequest request, HttpServletRequest httpRequest)
- ResponseEntity< Void > **deleteArea** (@PathVariable UUID id, HttpServletRequest request)
- ResponseEntity< AreaResponse > **toggleArea** (@PathVariable UUID id, HttpServletRequest request)
- ResponseEntity< List< AreaResponse > > **searchAreas** (@RequestParam String name, HttpServlet↩ Request request)
- ResponseEntity< AreaResponse > **createAreaWithActionsAndLinks** (@Valid @RequestBody CreateAreaWithActionsAndLinksRequest request, HttpServletRequest httpRequest)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/controller/AreaController.java

3.27 area.server.AREA_Back.dto.AreaEventMessage Class Reference

Static Public Member Functions

- static AreaEventMessage **fromExecution** (final UUID executionId, final UUID actionInstanceId, final UUID areaId, final Map< String, Object > payload)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/AreaEventMessage.java

3.28 area.server.AREA_Back.service.AreaOrchestrationService Class Reference

Public Member Functions

- void **initialize** ()
- void initializeCronActivations ()
- void handleAreaStateChange (Area area, boolean enabled)
- void handleActivationModeChange (ActivationMode activationMode, boolean enabled)
- void handleExecutionCompletion (Execution execution, Map< String, Object > result)
- Map< String, Object > getActivationStatistics ()
- void shutdown ()

3.28.1 Detailed Description

Service that coordinates different AREA activation modes and execution flows

3.28.2 Member Function Documentation

3.28.2.1 getActivationStatistics()

```
Map< String, Object > area.server.AREA_Back.service.AreaOrchestrationService.getActivation↩
Statistics ()
```

Gets statistics about AREA activations

3.28.2.2 handleActivationModeChange()

```
void area.server.AREA_Back.service.AreaOrchestrationService.handleActivationModeChange (
            ActivationMode activationMode,
            boolean enabled)
```

Handles activation mode changes

3.28.2.3 handleAreaStateChange()

```
void area.server.AREA_Back.service.AreaOrchestrationService.handleAreaStateChange (
            Area area,
            boolean enabled)
```

Handles area state changes (enable/disable)

3.28.2.4 handleExecutionCompletion()

```
void area.server.AREA_Back.service.AreaOrchestrationService.handleExecutionCompletion (
            Execution execution,
            Map< String, Object > result)
```

Processes execution completion and triggers chain reactions if needed

3.28.2.5 initializeCronActivations()

```
void area.server.AREA_Back.service.AreaOrchestrationService.initializeCronActivations ()
```

Initializes all CRON activation modes by scheduling them

3.28.2.6 shutdown()

```
void area.server.AREA_Back.service.AreaOrchestrationService.shutdown ()
```

Shutdown hook to clean up resources

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/AreaOrchestrationService.java

3.29 area.server.AREA_Back.dto.AreaReactionRequest Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/AreaReactionRequest.java

3.30 area.server.AREA_Back.worker.AreaReactionWorker Class Reference

Public Member Functions

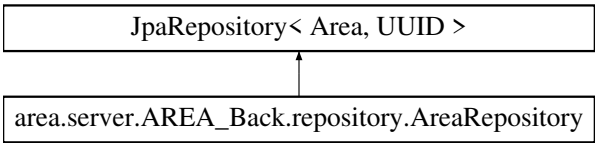
- void **initialize** ()
- void **processAreaEvents** ()
- void **processQueuedExecutions** ()
- void **processRetryExecutions** ()
- void **cleanupTimedOutExecutions** ()
- void **logStatistics** ()
- void **processEventRecord** (final MapRecord< String, Object, Object > record)
- void **processExecution** (final Execution execution)
- void **shutdown** ()
- Map< String, Object > **getWorkerStatus** ()

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/worker/AreaReactionWorker.java

3.31 area.server.AREA_Back.repository.AreaRepository Interface Reference

Inheritance diagram for area.server.AREA_Back.repository.AreaRepository:



Public Member Functions

- List< Area > findByUser (User user)
- List< Area > findByUserId (UUID userId)
- Page< Area > findByUserId (UUID userId, Pageable pageable)
- List< Area > findEnabledAreasByUser (@Param("user") User user)
- long countByUser (User user)
- List< Area > findByNameContainingIgnoreCase (@Param("name") String name)

3.31.1 Member Function Documentation

3.31.1.1 countByUser()

```
long area.server.AREA_Back.repository.AreaRepository.countByUser (
            User user)
```

Count areas by user

3.31.1.2 findByNameContainingIgnoreCase()

```
List< Area > area.server.AREA_Back.repository.AreaRepository.findByNameContainingIgnoreCase (
            @Param("name") String name)
```

Find areas by name containing (case-insensitive search)

3.31.1.3 findByUser()

```
List< Area > area.server.AREA_Back.repository.AreaRepository.findByUser (
            User user)
```

Find areas by user

3.31.1.4 findByUserId() [1/2]

```
List< Area > area.server.AREA_Back.repository.AreaRepository.findByUserId (
            UUID userId)
```

Find areas by user ID

3.31.1.5 findByUserId() [2/2]

```
Page< Area > area.server.AREA_Back.repository.AreaRepository.findByUserId (
            UUID userId,
            Pageable pageable)
```

Find areas by user ID with pagination

3.31.1.6 findEnabledAreasByUser()

```
List< Area > area.server.AREA_Back.repository.AreaRepository.findEnabledAreasByUser (
            @Param("user") User user)
```

Find enabled areas by user

The documentation for this interface was generated from the following file:

- src/main/java/area/server/AREA_Back/repository/AreaRepository.java

3.32 area.server.AREA_Back.dto.AreaResponse Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/AreaResponse.java

3.33 area.server.AREA_Back.service.AreaService Class Reference

Public Member Functions

- AreaResponse createAreaWithActions (CreateAreaWithActionsRequest request)
- AreaResponse **convertToResponse** (Area area)
- Map< String, Object > **triggerAreaManually** (UUID areaId, Map< String, Object > inputPayload)
- AreaResponse **createAreaWithActionsAndLinks** (CreateAreaWithActionsAndLinksRequest request)

3.33.1 Member Function Documentation

3.33.1.1 createAreaWithActions()

```
AreaResponse area.server.AREA_Back.service.AreaService.createAreaWithActions (
            CreateAreaWithActionsRequest request)
```

Creates a new AREA with actions and reactions.

Parameters

request	the area creation request

Returns

the created area response

Exceptions

IllegalArgumentException	if validation fails

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/AreaService.java

3.34 area.server.AREA_Back.config.AsyncConfig Class Reference

Public Member Functions

- Executor **areaWorkerExecutor** ()
- Executor **reactionTaskExecutor** ()
- TaskScheduler **taskScheduler** ()

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/config/AsyncConfig.java

3.35 area.server.AREA_Back.entity.AuditLog Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/entity/AuditLog.java

3.36 area.server.AREA_Back.controller.AuthController Class Reference

Public Member Functions

- ResponseEntity< AuthResponse > **register** (@Valid @RequestBody RegisterRequest request, HttpServletResponse response)
- ResponseEntity< AuthResponse > **login** (@Valid @RequestBody LocalLoginRequest request, HttpServletResponse response)
- ResponseEntity<?> **getCurrentUser** (HttpServletRequest request)
- ResponseEntity< Map< String, String > > **logout** (HttpServletRequest request, HttpServletResponse response)
- ResponseEntity< AuthResponse > **refreshToken** (@RequestBody(required=false) TokenRefreshRequest request, HttpServletRequest httpRequest, HttpServletResponse response)
- ResponseEntity< Map< String, Object > > **getAuthStatus** (HttpServletRequest request)
- ResponseEntity< Map< String, String > > **handleRuntimeException** (RuntimeException e)
- ResponseEntity< Map< String, Object > > **handleValidationException** (org.springframework.web.bind.MethodArgumentNotValidException e)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/controller/AuthController.java

3.37 area.server.AREA_Back.util.AuthenticationUtils Class Reference

Static Public Member Functions

- static CustomUserDetailsService.CustomUserPrincipal **getCurrentUser** ()
- static UUID **getCurrentUserId** ()
- static String **getCurrentUserEmail** ()
- static boolean **isCurrentUserAdmin** ()
- static boolean **isAuthenticated** ()
- static area.server.AREA_Back.entity.User **getCurrentUserEntity** ()

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/util/AuthenticationUtils.java

3.38 area.server.AREA_Back.dto.AuthResponse Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/AuthResponse.java

3.39 area.server.AREA_Back.service.AuthService Class Reference

Public Member Functions

- AuthResponse **register** (RegisterRequest request, HttpServletResponse response)
- AuthResponse **login** (LocalLoginRequest request, HttpServletResponse response)
- UserResponse **getCurrentUser** (HttpServletRequest request)
- User **getCurrentUserEntity** (HttpServletRequest request)
- void **logout** (HttpServletRequest request, HttpServletResponse response)
- AuthResponse **refreshToken** (HttpServletRequest request, HttpServletResponse response)
- boolean **isAuthenticated** (HttpServletRequest request)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/AuthService.java

3.40 area.server.AREA_Back.constants.AuthTokenConstants Class Reference

Static Public Attributes

- static final String ACCESS_TOKEN_COOKIE_NAME = "authToken"
- static final String REFRESH_TOKEN_COOKIE_NAME = "refreshToken"
- static final String REDIS_ACCESS_TOKEN_PREFIX = "access:"
- static final String REDIS_REFRESH_TOKEN_PREFIX = "refresh:"
- static final String ACCESS_TOKEN_TYPE = "access"
- static final String REFRESH_TOKEN_TYPE = "refresh"

3.40.1 Detailed Description

Centralized constants for authentication token names Used throughout the application to ensure consistency

3.40.2 Member Data Documentation

3.40.2.1 ACCESS_TOKEN_COOKIE_NAME

```
final String area.server.AREA_Back.constants.AuthTokenConstants.ACCESS_TOKEN_COOKIE_NAME =
"authToken" [static]
```

HTTP-Only cookie name for the access token

3.40.2.2 ACCESS_TOKEN_TYPE

```
final String area.server.AREA_Back.constants.AuthTokenConstants.ACCESS_TOKEN_TYPE = "access"
[static]
```

Token type in the JWT payload for access tokens

3.40.2.3 REDIS_ACCESS_TOKEN_PREFIX

```
final String area.server.AREA_Back.constants.AuthTokenConstants.REDIS_ACCESS_TOKEN_PREFIX =
"access:" [static]
```

Redis prefix for access tokens

3.40.2.4 REDIS_REFRESH_TOKEN_PREFIX

```
final String area.server.AREA_Back.constants.AuthTokenConstants.REDIS_REFRESH_TOKEN_PREFIX =
"refresh:" [static]
```

Redis prefix for refresh tokens

3.40.2.5 REFRESH_TOKEN_COOKIE_NAME

```
final String area.server.AREA_Back.constants.AuthTokenConstants.REFRESH_TOKEN_COOKIE_NAME =
"refreshToken" [static]
```

HTTP-Only cookie name for the refresh token

3.40.2.6 REFRESH_TOKEN_TYPE

```
final String area.server.AREA_Back.constants.AuthTokenConstants.REFRESH_TOKEN_TYPE = "refresh"
[static]
```

Token type in the JWT payload for refresh tokens

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/constants/AuthTokenConstants.java

3.41 area.server.AREA_Back.entity.Service.AuthType Enum Reference

Public Attributes

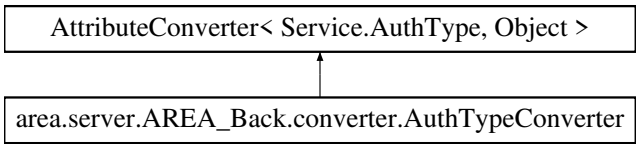
- **OAUTH2**
- **APIKEY**
- **NONE**

The documentation for this enum was generated from the following file:

- src/main/java/area/server/AREA_Back/entity/Service.java

3.42 area.server.AREA_Back.converter.AuthTypeConverter Class Reference

Inheritance diagram for area.server.AREA_Back.converter.AuthTypeConverter:



Public Member Functions

- Object **convertToDatabaseColumn** (final Service.AuthType authType)
- Service.AuthType **convertToEntityAttribute** (final Object dbData)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/converter/AuthTypeConverter.java

3.43 area.server.AREA_Back.dto.BatchCreateActionLinksRequest Class Reference

Classes

- class **ActionLinkData**

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/BatchCreateActionLinksRequest.java

3.44 area.server.AREA_Back.dto.CreateActionInstanceRequest Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/CreateActionInstanceRequest.java

3.45 area.server.AREA_Back.dto.CreateActionLinkRequest Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/CreateActionLinkRequest.java

3.46 area.server.AREA_Back.dto.CreateAreaRequest Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/CreateAreaRequest.java

3.47 area.server.AREA_Back.dto.CreateAreaWithActionsAndLinks↩ Request Class Reference

Classes

- class **ActionConnectionRequest**

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/CreateAreaWithActionsAndLinksRequest.java

3.48 area.server.AREA_Back.dto.CreateAreaWithActionsRequest Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/CreateAreaWithActionsRequest.java

3.49 area.server.AREA_Back.dto.CreateServiceRequest Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/CreateServiceRequest.java

3.50 area.server.AREA_Back.dto.CreateUserRequest Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/CreateUserRequest.java

3.51 area.server.AREA_Back.service.CronSchedulerService Class Reference

Public Member Functions

- void **initialize** ()
- void **shutdown** ()
- void loadAndScheduleAllCronActivations ()
- void scheduleActivationMode (ActivationMode activationMode)
- void cancelScheduledTask (UUID activationModeId)
- void rescheduleActivationMode (ActivationMode activationMode)
- void reloadAllCronActivations ()
- Map< UUID, Boolean > getScheduledTasksStatus ()
- int getActiveTasksCount ()

3.51.1 Detailed Description

Service for managing CRON-based scheduled tasks for AREA activations

3.51.2 Member Function Documentation

3.51.2.1 cancelScheduledTask()

```
void area.server.AREA_Back.service.CronSchedulerService.cancelScheduledTask (
            UUID activationModeId)
```

Cancels a scheduled task

3.51.2.2 getActiveTasksCount()

```
int area.server.AREA_Back.service.CronSchedulerService.getActiveTasksCount ()
```

Gets the count of active scheduled tasks

3.51.2.3 getScheduledTasksStatus()

```
Map< UUID, Boolean > area.server.AREA_Back.service.CronSchedulerService.getScheduledTasks↩
Status ()
```

Gets the status of all scheduled tasks

3.51.2.4 loadAndScheduleAllCronActivations()

```
void area.server.AREA_Back.service.CronSchedulerService.loadAndScheduleAllCronActivations ()
```

Loads all enabled CRON activation modes and schedules them

3.51.2.5 reloadAllCronActivations()

```
void area.server.AREA_Back.service.CronSchedulerService.reloadAllCronActivations ()
```

Reloads and reschedules all CRON activation modes

3.51.2.6 rescheduleActivationMode()

```
void area.server.AREA_Back.service.CronSchedulerService.rescheduleActivationMode (
            ActivationMode activationMode)
```

Reschedules an activation mode (useful when configuration changes)

3.51.2.7 scheduleActivationMode()

```
void area.server.AREA_Back.service.CronSchedulerService.scheduleActivationMode (
            ActivationMode activationMode)
```

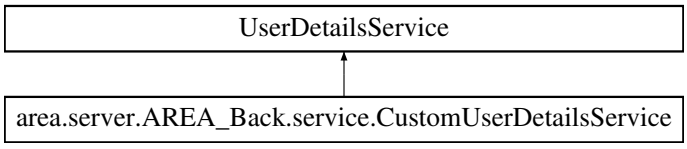
Schedules a single activation mode

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/CronSchedulerService.java

3.52 area.server.AREA_Back.service.CustomUserDetailsService Class Reference

Inheritance diagram for area.server.AREA_Back.service.CustomUserDetailsService:



Classes

- class **CustomUserPrincipal**

Public Member Functions

- UserDetails **loadUserByUsername** (String username) throws UsernameNotFoundException

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/CustomUserDetailsService.java

3.53 area.server.AREA_Back.config.DatabaseConfig Class Reference

Public Member Functions

- DataSource dataSource ()

3.53.1 Detailed Description

PostgreSQL database configuration. This class explicitly configures the DataSource for PostgreSQL and validates the configuration at application startup.

Note: This configuration is only active for non-test profiles to avoid conflicts with test configurations.

3.53.2 Member Function Documentation

3.53.2.1 dataSource()

```
DataSource area.server.AREA_Back.config.DatabaseConfig.dataSource ()
```

Main DataSource configuration for PostgreSQL. This method validates that all database properties are set.

Returns

DataSource configured for PostgreSQL

Exceptions

IllegalStateException	if database properties are not set

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/config/DatabaseConfig.java

3.54 area.server.AREA_Back.service.DataMappingService Class Reference

Public Member Functions

- Map< String, Object > **applyMapping** (Map< String, Object > input, Map< String, Object > mapping)
- boolean **evaluateCondition** (Map< String, Object > data, Map< String, Object > condition)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/DataMappingService.java

3.55 area.server.AREA_Back.entity.enums.DedupStrategy Enum Reference

Public Attributes

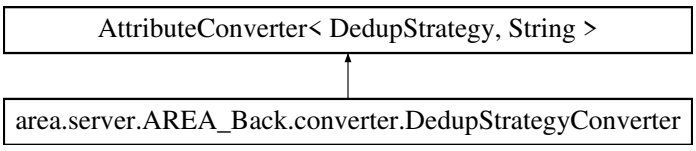
- **NONE**
- **BY_PAYLOAD_HASH**
- **BY_EXTERNAL_ID**

The documentation for this enum was generated from the following file:

- src/main/java/area/server/AREA_Back/entity/enums/DedupStrategy.java

3.56 area.server.AREA_Back.converter.DedupStrategyConverter Class Reference

Inheritance diagram for area.server.AREA_Back.converter.DedupStrategyConverter:



Public Member Functions

- String **convertToDatabaseColumn** (final DedupStrategy dedupStrategy)
- DedupStrategy **convertToEntityAttribute** (final String dbData)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/converter/DedupStrategyConverter.java

3.57 area.server.AREA_Back.entity.Event Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/entity/Event.java

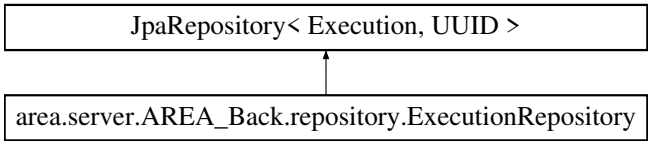
3.58 area.server.AREA_Back.entity.Execution Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/entity/Execution.java

3.59 area.server.AREA_Back.repository.ExecutionRepository Interface Reference

Inheritance diagram for area.server.AREA_Back.repository.ExecutionRepository:



Public Member Functions

- List< Execution > findByStatus (ExecutionStatus status)
- List< Execution > findByActionInstance (ActionInstance actionInstance)
- List< Execution > findByArea (Area area)
- List< Execution > findQueuedExecutionsOrderedByQueueTime ()
- List< Execution > findExecutionsReadyForRetry (@Param("retryThreshold") LocalDateTime retryThreshold)
- List< Execution > findTimedOutExecutions (@Param("timeoutThreshold") LocalDateTime timeout↩ Threshold)
- List< Execution > findByCorrelationId (UUID correlationId)
- List< Execution > findByStatusAndArea (@Param("status") ExecutionStatus status, @Param("area") Area area)
- long countByStatus (ExecutionStatus status)
- long countFailedExecutionsSince (@Param("actionInstance") ActionInstance actionInstance, @Param("since") LocalDateTime since)
- List< Execution > findByDedupKey (String dedupKey)
- List< Execution > findRecentExecutionsByActionInstance (@Param("actionInstance") ActionInstance actionInstance, @Param("since") LocalDateTime since)
- java.util.Optional< Execution > findByIdWithActionInstance (@Param("id") UUID id)

3.59.1 Member Function Documentation

3.59.1.1 countByStatus()

```
long area.server.AREA_Back.repository.ExecutionRepository.countByStatus (
            ExecutionStatus status)
```

Count executions by status

3.59.1.2 countFailedExecutionsSince()

```
long area.server.AREA_Back.repository.ExecutionRepository.countFailedExecutionsSince (
            @Param("actionInstance") ActionInstance actionInstance,
            @Param("since") LocalDateTime since)
```

Count failed executions for a specific action instance in the last period

3.59.1.3 findByActionInstance()

```
List< Execution > area.server.AREA_Back.repository.ExecutionRepository.findByActionInstance (
            ActionInstance actionInstance)
```

Find executions by action instance

3.59.1.4 findByArea()

```
List< Execution > area.server.AREA_Back.repository.ExecutionRepository.findByArea (
            Area area)
```

Find executions by area

3.59.1.5 findByCorrelationId()

```
List< Execution > area.server.AREA_Back.repository.ExecutionRepository.findByCorrelationId (
            UUID correlationId)
```

Find executions by correlation ID

3.59.1.6 findByDedupKey()

```
List< Execution > area.server.AREA_Back.repository.ExecutionRepository.findByDedupKey (
            String dedupKey)
```

Find executions by dedup key

3.59.1.7 findByIdWithActionInstance()

```
java.util.Optional< Execution > area.server.AREA_Back.repository.ExecutionRepository.findBy↩
IdWithActionInstance (
            @Param("id") UUID id)
```

Find execution by ID with all relations loaded (for processing)

3.59.1.8 findByStatus()

```
List< Execution > area.server.AREA_Back.repository.ExecutionRepository.findByStatus (
            ExecutionStatus status)
```

Find executions by status

3.59.1.9 findByStatusAndArea()

```
List< Execution > area.server.AREA_Back.repository.ExecutionRepository.findByStatusAndArea (
            @Param("status") ExecutionStatus status,
            @Param("area") Area area)
```

Find executions by status and area

3.59.1.10 findExecutionsReadyForRetry()

```
List< Execution > area.server.AREA_Back.repository.ExecutionRepository.findExecutionsReady↩
ForRetry (
            @Param("retryThreshold") LocalDateTime retryThreshold)
```

Find executions that need retry (RETRY status and not recently attempted)

3.59.1.11 findQueuedExecutionsOrderedByQueueTime()

```
List< Execution > area.server.AREA_Back.repository.ExecutionRepository.findQueuedExecutions↩
OrderedByQueueTime ()
```

Find queued executions ordered by queue time

3.59.1.12 findRecentExecutionsByActionInstance()

```
List< Execution > area.server.AREA_Back.repository.ExecutionRepository.findRecentExecutions↩
ByActionInstance (
            @Param("actionInstance") ActionInstance actionInstance,
            @Param("since") LocalDateTime since)
```

Find recent executions for an action instance

3.59.1.13 findTimedOutExecutions()

```
List< Execution > area.server.AREA_Back.repository.ExecutionRepository.findTimedOutExecutions
(
            @Param("timeoutThreshold") LocalDateTime timeoutThreshold)
```

Find running executions that may have timed out

The documentation for this interface was generated from the following file:

- src/main/java/area/server/AREA_Back/repository/ExecutionRepository.java

3.60 area.server.AREA_Back.dto.ExecutionResult Class Reference

Static Public Member Functions

- static ExecutionResult **success** (final UUID executionId, final Map< String, Object > outputPayload, final LocalDateTime startedAt)
- static ExecutionResult **failure** (final UUID executionId, final String errorMessage, final Map< String, Object > error, final LocalDateTime startedAt, final boolean shouldRetry, final LocalDateTime nextRetryAt)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/ExecutionResult.java

3.61 area.server.AREA_Back.service.ExecutionService Class Reference

Public Member Functions

- Execution **createExecution** (ActionInstance actionInstance, ActivationMode activationMode, Map< String, Object > inputPayload, UUID correlationId)
- Execution **createExecutionWithActivationType** (ActionInstance actionInstance, ActivationModeType activationModeType, Map< String, Object > inputPayload, UUID correlationId)
- Execution **updateExecutionWithResult** (ExecutionResult result)
- Execution **markExecutionAsStarted** (UUID executionId)
- List< Execution > **getQueuedExecutions** ()
- List< Execution > **getExecutionsReadyForRetry** (LocalDateTime retryThreshold)
- List< Execution > **getTimedOutExecutions** (LocalDateTime timeoutThreshold)
- Execution **cancelExecution** (UUID executionId, String reason)
- Map< String, Long > **getExecutionStatistics** ()
- boolean **hasExcessiveFailures** (ActionInstance actionInstance, int maxFailures, LocalDateTime since)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/ExecutionService.java

3.62 area.server.AREA_Back.entity.enums.ExecutionStatus Enum Reference

Public Attributes

- **QUEUED**
- **RUNNING**
- **OK**
- **RETRY**
- **FAILED**
- **CANCELED**

The documentation for this enum was generated from the following file:

- src/main/java/area/server/AREA_Back/entity/enums/ExecutionStatus.java

3.63 area.server.AREA_Back.service.ExecutionTriggerService Class Reference

Public Member Functions

- void triggerAreaExecution (ActionInstance actionInstance, ActivationModeType activationMode, Map< String, Object > inputPayload)
- Execution triggerManualExecution (ActionInstance actionInstance, Map< String, Object > inputPayload)

3.63.1 Detailed Description

Service for triggering AREA executions from various sources

3.63.2 Member Function Documentation

3.63.2.1 triggerAreaExecution()

```
void area.server.AREA_Back.service.ExecutionTriggerService.triggerAreaExecution (
            ActionInstance actionInstance,
            ActivationModeType activationMode,
            Map< String, Object > inputPayload)
```

Triggers execution of an AREA based on an action instance

3.63.2.2 triggerManualExecution()

```
Execution area.server.AREA_Back.service.ExecutionTriggerService.triggerManualExecution (
            ActionInstance actionInstance,
            Map< String, Object > inputPayload)
```

Triggers manual execution of an AREA

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/ExecutionTriggerService.java

3.64 area.server.AREA_Back.service.GitHubActionService Class Reference

Public Member Functions

- Map< String, Object > **executeGitHubAction** (String actionKey, Map< String, Object > inputPayload, Map< String, Object > actionParams, UUID userId)
- List< Map< String, Object > > **checkGitHubEvents** (String actionKey, Map< String, Object > action↩ Params, UUID userId, LocalDateTime lastCheck)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/GitHubActionService.java

3.65 area.server.AREA_Back.service.GitHubEventPollingService Class Reference

Public Member Functions

- void **pollGitHubEvents** ()

3.65.1 Detailed Description

Service for checking GitHub events (polling-based implementation) This service runs periodically to check for new GitHub events

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/GitHubEventPollingService.java

3.66 area.server.AREA_Back.service.GitHubWebhookService Class Reference

Public Member Functions

- Map< String, Object > processWebhook (UUID userId, String eventType, String signature, Map< String, Object > payload)

3.66.1 Detailed Description

Service for processing GitHub webhooks This service will be enhanced to handle real webhook processing in future iterations

3.66.2 Member Function Documentation

3.66.2.1 processWebhook()

```
Map< String, Object > area.server.AREA_Back.service.GitHubWebhookService.processWebhook (
            UUID userId,
            String eventType,
            String signature,
            Map< String, Object > payload)
```

Process a GitHub webhook event

Parameters

userId	User ID for which to process the webhook
eventType	GitHub event type (e.g., issues, pull_request, push)
signature	GitHub webhook signature for verification
payload	The webhook payload

Returns

Processing result

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/GitHubWebhookService.java

3.67 area.server.AREA_Back.service.JsonSchemaValidationService Class Reference

Public Member Functions

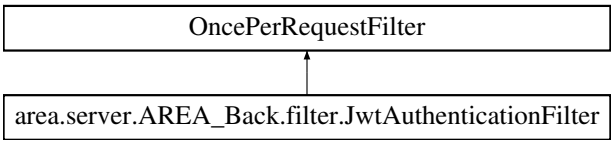
- void **validateParameters** (Map< String, Object > inputSchema, Map< String, Object > parameters)
- String **validateParametersQuietly** (Map< String, Object > inputSchema, Map< String, Object > parameters)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/JsonSchemaValidationService.java

3.68 area.server.AREA_Back.filter.JwtAuthenticationFilter Class Reference

Inheritance diagram for area.server.AREA_Back.filter.JwtAuthenticationFilter:



Protected Member Functions

- void **doFilterInternal** (@NonNull final HttpServletRequest request, @NonNull final HttpServletResponse response, @NonNull final FilterChain filterChain) throws ServletException, IOException

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/filter/JwtAuthenticationFilter.java

3.69 area.server.AREA_Back.config.JwtCookieProperties Class Reference

3.69.1 Detailed Description

JWT cookie configuration based on application properties. Allows different configuration depending on the environment (dev/prod).

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/config/JwtCookieProperties.java

3.70 area.server.AREA_Back.service.JwtService Class Reference

Public Member Functions

- String **generateAccessToken** (UUID userId, String email)
- String **generateRefreshToken** (UUID userId, String email)
- UUID **extractUserIdFromAccessToken** (String token)
- UUID **extractUserIdFromRefreshToken** (String token)
- String **extractEmailFromAccessToken** (String token)
- String **extractEmailFromRefreshToken** (String token)
- boolean **isAccessTokenValid** (String token, UUID userId)
- boolean **isRefreshTokenValid** (String token, UUID userId)
- boolean **isAccessTokenExpired** (String token)
- boolean **isRefreshTokenExpired** (String token)
- long **getAccessTokenExpirationMs** ()
- long **getRefreshTokenExpirationMs** ()

Static Public Member Functions

- static String **generateSecureKey** ()

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/JwtService.java

3.71 area.server.AREA_Back.dto.LocalLoginRequest Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/LocalLoginRequest.java

3.72 area.server.AREA_Back.controller.OAuthController Class Reference

Public Member Functions

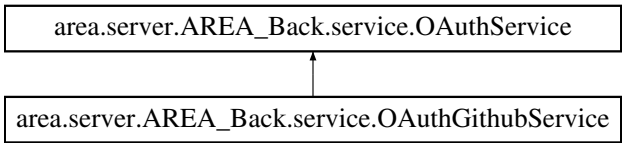
- **OAuthController** (List< OAuthService > oauthServices)
- ResponseEntity< List< OAuthProvider > > **getProviders** ()
- ResponseEntity< String > **authorize** (@PathVariable("provider") String provider, HttpServletResponse response)
- ResponseEntity< AuthResponse > **exchangeToken** (@PathVariable("provider") String provider, @RequestBody Map< String, String > requestBody, HttpServletResponse response)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/controller/OAuthController.java

3.73 area.server.AREA_Back.service.OAuthGithubService Class Reference

Inheritance diagram for area.server.AREA_Back.service.OAuthGithubService:



Public Member Functions

- **OAuthGithubService** (@Value("${spring.security.oauth2.client.registration.github.client-id}") String github↩ ClientId, @Value("${spring.security.oauth2.client.registration.github.client-secret}") String githubClientSecret, @Value("${OAUTH_REDIRECT_BASE_URL:http://localhost:3000}") String redirectBaseUrl, JwtService jwtService, RedisTokenService redisTokenService, PasswordEncoder passwordEncoder)
- AuthResponse authenticate (OAuthLoginRequest request, HttpServletResponse response)
- UserOAuthIdentity **linkToExistingUser** (User existingUser, String authorizationCode)

Public Member Functions inherited from area.server.AREA_Back.service.OAuthService

- String **getProviderKey** ()
- String **getProviderLabel** ()
- String **getProviderLogoUrl** ()
- String **getUserAuthUrl** ()
- String **getClientId** ()
- String **getClientSecret** ()

Additional Inherited Members

Protected Member Functions inherited from area.server.AREA_Back.service.OAuthService

- **OAuthService** (String providerKey, String providerLabel, String providerLogoUrl, String userAuthUrl, String clientId, String clientSecret, JwtService jwtService)
- void **setTokenCookies** (HttpServletResponse response, String accessToken, String refreshToken)

Protected Attributes inherited from area.server.AREA_Back.service.OAuthService

- final String **providerKey**
- final String **providerLabel**
- final String **providerLogoUrl**
- final String **userAuthUrl**
- final String **clientId**
- final String **clientSecret**
- final JwtService **jwtService**
- PasswordEncoder **passwordEncoder**
- UserOAuthIdentityRepository **userOAuthIdentityRepository**
- UserRepository **userRepository**
- RedisTokenService **redisTokenService**

3.73.1 Member Function Documentation

3.73.1.1 authenticate()

```
AuthResponse area.server.AREA_Back.service.OAuthGithubService.authenticate (
            OAuthLoginRequest request,
            HttpServletResponse response)
```

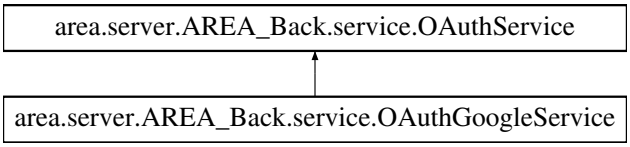
Reimplemented from area.server.AREA_Back.service.OAuthService.

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/OAuthGithubService.java

3.74 area.server.AREA_Back.service.OAuthGoogleService Class Reference

Inheritance diagram for area.server.AREA_Back.service.OAuthGoogleService:



Public Member Functions

- **OAuthGoogleService** (@Value("${spring.security.oauth2.client.registration.google.client-id}") String googleClientId, @Value("${spring.security.oauth2.client.registration.google.client-secret}") String google↩ ClientSecret, PasswordEncoder passwordEncoder, UserOAuthIdentityRepository userOAuthIdentity↩ Repository, UserRepository userRepository, RedisTokenService redisTokenService, JwtService jwtService)
- AuthResponse authenticate (OAuthLoginRequest request, HttpServletResponse response)

Public Member Functions inherited from area.server.AREA_Back.service.OAuthService

- String **getProviderKey** ()
- String **getProviderLabel** ()
- String **getProviderLogoUrl** ()
- String **getUserAuthUrl** ()
- String **getClientId** ()
- String **getClientSecret** ()

Additional Inherited Members

Protected Member Functions inherited from area.server.AREA_Back.service.OAuthService

- **OAuthService** (String providerKey, String providerLabel, String providerLogoUrl, String userAuthUrl, String clientId, String clientSecret, JwtService jwtService)
- void **setTokenCookies** (HttpServletResponse response, String accessToken, String refreshToken)

Protected Attributes inherited from area.server.AREA_Back.service.OAuthService

- final String **providerKey**
- final String **providerLabel**
- final String **providerLogoUrl**
- final String **userAuthUrl**
- final String **clientId**
- final String **clientSecret**
- final JwtService **jwtService**
- PasswordEncoder **passwordEncoder**
- UserOAuthIdentityRepository **userOAuthIdentityRepository**
- UserRepository **userRepository**
- RedisTokenService **redisTokenService**

3.74.1 Member Function Documentation

3.74.1.1 authenticate()

```
AuthResponse area.server.AREA_Back.service.OAuthGoogleService.authenticate (
            OAuthLoginRequest request,
            HttpServletResponse response)
```

Reimplemented from area.server.AREA_Back.service.OAuthService.

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/OAuthGoogleService.java

3.75 area.server.AREA_Back.controller.OAuthLinkController Class Reference

Public Member Functions

- ResponseEntity<?> **linkOAuthAccount** (@PathVariable String provider, @RequestBody Map< String, String > requestBody, HttpServletRequest request)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/controller/OAuthLinkController.java

3.76 area.server.AREA_Back.dto.OAuthLinkErrorResponse Class Reference

Static Public Member Functions

- static OAuthLinkErrorResponse **accountAlreadyLinked** (String provider)
- static OAuthLinkErrorResponse **emailRequired** (String provider)
- static OAuthLinkErrorResponse **internalError** ()

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/OAuthLinkErrorResponse.java

3.77 area.server.AREA_Back.dto.OAuthLoginRequest Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/OAuthLoginRequest.java

3.78 area.server.AREA_Back.dto.OAuthProvider Class Reference

Public Member Functions

- **OAuthProvider** (final String providerKey, final String providerLabel, final String providerLogoUrl, final String userAuthUrl, final String clientId)
- String **getProviderKey** ()
- String **getProviderLabel** ()
- String **getProviderLogoUrl** ()
- String **getUserAuthUrl** ()
- String **getClientId** ()
- boolean **equals** (final Object o)
- int **hashCode** ()

Static Public Member Functions

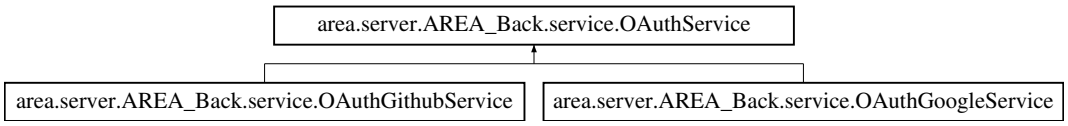
- static OAuthProvider **fromService** (final OAuthService service)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/OAuthProvider.java

3.79 area.server.AREA_Back.service.OAuthService Class Reference

Inheritance diagram for area.server.AREA_Back.service.OAuthService:



Public Member Functions

- String **getProviderKey** ()
- String **getProviderLabel** ()
- String **getProviderLogoUrl** ()
- String **getUserAuthUrl** ()
- String **getClientId** ()
- String **getClientSecret** ()
- abstract AuthResponse **authenticate** (OAuthLoginRequest request, HttpServletResponse response)

Protected Member Functions

- **OAuthService** (String providerKey, String providerLabel, String providerLogoUrl, String userAuthUrl, String clientId, String clientSecret, JwtService jwtService)
- void **setTokenCookies** (HttpServletResponse response, String accessToken, String refreshToken)

Protected Attributes

- final String **providerKey**
- final String **providerLabel**
- final String **providerLogoUrl**
- final String **userAuthUrl**
- final String **clientId**
- final String **clientSecret**
- final JwtService **jwtService**
- PasswordEncoder **passwordEncoder**
- UserOAuthIdentityRepository **userOAuthIdentityRepository**
- UserRepository **userRepository**
- RedisTokenService **redisTokenService**

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/OAuthService.java

3.80 area.server.AREA_Back.config.OpenApiConfig Class Reference

Public Member Functions

- OpenAPI **customOpenAPI** ()

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/config/OpenApiConfig.java

3.81 area.server.AREA_Back.service.ReactionChainService Class Reference

Public Member Functions

- void processReactionChain (Area area, Map< String, Object > initialPayload, UUID correlationId)
- void triggerChainReaction (Execution completedExecution, Map< String, Object > executionResult)

3.81.1 Detailed Description

Service for managing reaction chains and sequential execution

3.81.2 Member Function Documentation

3.81.2.1 processReactionChain()

```
void area.server.AREA_Back.service.ReactionChainService.processReactionChain (
            Area area,
            Map< String, Object > initialPayload,
            UUID correlationId)
```

Processes a chain of reactions for an AREA

3.81.2.2 triggerChainReaction()

```
void area.server.AREA_Back.service.ReactionChainService.triggerChainReaction (
            Execution completedExecution,
            Map< String, Object > executionResult)
```

Triggers a chain reaction from a completed execution

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/ReactionChainService.java

3.82 area.server.AREA_Back.worker.ReactionExecutor Class Reference

Public Member Functions

- ExecutionResult **executeReaction** (final Execution execution)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/worker/ReactionExecutor.java

3.83 area.server.AREA_Back.config.RedisConfig Class Reference

Public Member Functions

- String **getAreasEventsStream** ()
- String **getAreasConsumerGroup** ()
- String **getAreasConsumerName** ()
- RedisTemplate< String, Object > **redisTemplate** (RedisConnectionFactory connectionFactory)
- RedisCacheManager **cacheManager** (RedisConnectionFactory connectionFactory)
- StreamMessageListenerContainer< String, ?> **streamMessageListenerContainer** (RedisConnection↩ Factory connectionFactory)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/config/RedisConfig.java

3.84 area.server.AREA_Back.service.RedisEventService Class Reference

Public Member Functions

- String **publishAreaEvent** (AreaEventMessage message)
- String **publishExecutionEvent** (UUID executionId, UUID actionInstanceId, UUID areaId, Map< String, Object > payload)
- void **initializeStream** ()
- Map< String, Object > **getStreamInfo** ()

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/RedisEventService.java

3.85 area.server.AREA_Back.config.RedisStreamProperties Class Reference

Public Member Functions

- String **getConsumerName** ()

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/config/RedisStreamProperties.java

3.86 area.server.AREA_Back.service.RedisTokenService Class Reference

Public Member Functions

- void **storeAccessToken** (String accessToken, UUID userId)
- void **storeRefreshToken** (UUID userId, String refreshToken)
- boolean **isAccessTokenValid** (String accessToken)
- UUID **getUserIdFromAccessToken** (String accessToken)
- String **getRefreshToken** (UUID userId)
- boolean **isRefreshTokenValid** (UUID userId, String refreshToken)
- void **deleteAccessToken** (String accessToken)
- void **deleteRefreshToken** (UUID userId)
- void **deleteAllTokensForUser** (UUID userId, String accessToken)
- void **rotateRefreshToken** (UUID userId, String newRefreshToken)
- void **cleanupExpiredTokens** ()
- Long **getAccessTokenTTL** (String accessToken)
- Long **getRefreshTokenTTL** (UUID userId)
- boolean **hasActiveRefreshToken** (UUID userId)
- void **extendAccessTokenTTL** (String accessToken, Duration newTTL)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/RedisTokenService.java

3.87 area.server.AREA_Back.dto.RegisterRequest Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/RegisterRequest.java

3.88 area.server.AREA_Back.worker.RetryManager Class Reference

Classes

- class **RetryStatistics**

Public Member Functions

- LocalDateTime **calculateNextRetryTime** (final int attemptNumber)
- boolean **shouldRetry** (final int attemptNumber, final Throwable error)
- RetryStatistics **getRetryStatistics** (final int attemptNumber)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/worker/RetryManager.java

3.89 area.server.AREA_Back.config.SecurityConfig Class Reference

Public Member Functions

- PasswordEncoder **passwordEncoder** ()
- CorsConfigurationSource **corsConfigurationSource** ()
- SecurityFilterChain **filterChain** (HttpSecurity http) throws Exception

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/config/SecurityConfig.java

3.90 area.server.AREA_Back.entity.Service Class Reference

Classes

- enum AuthType

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/entity/Service.java

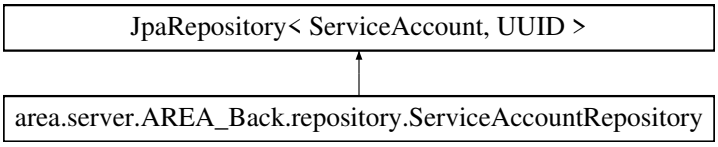
3.91 area.server.AREA_Back.entity.ServiceAccount Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/entity/ServiceAccount.java

3.92 area.server.AREA_Back.repository.ServiceAccountRepository Interface Reference

Inheritance diagram for area.server.AREA_Back.repository.ServiceAccountRepository:



Public Member Functions

- Optional< ServiceAccount > findByUserAndService (User user, Service service)
- List< ServiceAccount > findByUser (User user)
- List< ServiceAccount > findByService (Service service)
- List< ServiceAccount > findActiveAccounts ()
- List< ServiceAccount > findAccountsNeedingRefresh ()
- List< ServiceAccount > findActiveByUser (@Param("user") User user)

3.92.1 Member Function Documentation

3.92.1.1 findAccountsNeedingRefresh()

```
List< ServiceAccount > area.server.AREA_Back.repository.ServiceAccountRepository.findAccounts↩
NeedingRefresh ()
```

Find service accounts that need token refresh

3.92.1.2 findActiveAccounts()

```
List< ServiceAccount > area.server.AREA_Back.repository.ServiceAccountRepository.findActive↩
Accounts ()
```

Find active service accounts (not revoked)

3.92.1.3 findActiveByUser()

```
List< ServiceAccount > area.server.AREA_Back.repository.ServiceAccountRepository.findActive↩
ByUser (
            @Param("user") User user)
```

Find service accounts by user and active status

3.92.1.4 findByService()

```
List< ServiceAccount > area.server.AREA_Back.repository.ServiceAccountRepository.findByService
(
            Service service)
```

Find service accounts by service

3.92.1.5 findByUser()

```
List< ServiceAccount > area.server.AREA_Back.repository.ServiceAccountRepository.findByUser (
            User user)
```

Find service accounts by user

3.92.1.6 findByUserAndService()

```
Optional< ServiceAccount > area.server.AREA_Back.repository.ServiceAccountRepository.findBy↩
UserAndService (
            User user,
            Service service)
```

Find service account by user and service

The documentation for this interface was generated from the following file:

- src/main/java/area/server/AREA_Back/repository/ServiceAccountRepository.java

3.93 area.server.AREA_Back.dto.ServiceAccountResponse Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/ServiceAccountResponse.java

3.94 area.server.AREA_Back.service.ServiceAccountService Class Reference

Public Member Functions

- ServiceAccount createOrUpdateServiceAccount (UUID userId, String serviceKey, String accessToken, String refreshToken, LocalDateTime expiresAt, Map< String, Object > scopes)
- Optional< ServiceAccount > getServiceAccount (UUID userId, String serviceKey)
- Optional< String > getAccessToken (UUID userId, String serviceKey)
- List< ServiceAccount > getUserServiceAccounts (UUID userId)
- void revokeServiceAccount (UUID userId, String serviceKey)
- boolean hasValidToken (UUID userId, String serviceKey)
- void storeTokenMetadata (UUID userId, String serviceKey, String remoteAccountId, String webhookSecret, Map< String, Object > additionalScopes)

3.94.1 Member Function Documentation

3.94.1.1 createOrUpdateServiceAccount()

```
ServiceAccount area.server.AREA_Back.service.ServiceAccountService.createOrUpdateService↩
Account (
            UUID userId,
            String serviceKey,
            String accessToken,
            String refreshToken,
            LocalDateTime expiresAt,
            Map< String, Object > scopes)
```

Create or update a service account with token

3.94.1.2 getAccessToken()

```
Optional< String > area.server.AREA_Back.service.ServiceAccountService.getAccessToken (
            UUID userId,
            String serviceKey)
```

Get decrypted access token for a service

3.94.1.3 getServiceAccount()

```
Optional< ServiceAccount > area.server.AREA_Back.service.ServiceAccountService.getService↩
Account (
            UUID userId,
            String serviceKey)
```

Get service account by user and service key

3.94.1.4 getUserServiceAccounts()

```
List< ServiceAccount > area.server.AREA_Back.service.ServiceAccountService.getUserService↩
Accounts (
            UUID userId)
```

Get all service accounts for a user

3.94.1.5 hasValidToken()

```
boolean area.server.AREA_Back.service.ServiceAccountService.hasValidToken (
            UUID userId,
            String serviceKey)
```

Check if user has access token for a service

3.94.1.6 revokeServiceAccount()

```
void area.server.AREA_Back.service.ServiceAccountService.revokeServiceAccount (
            UUID userId,
            String serviceKey)
```

Revoke (disable) a service account

3.94.1.7 storeTokenMetadata()

```
void area.server.AREA_Back.service.ServiceAccountService.storeTokenMetadata (
            UUID userId,
            String serviceKey,
            String remoteAccountId,
            String webhookSecret,
            Map< String, Object > additionalScopes)
```

Store additional service-specific token metadata

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/ServiceAccountService.java

3.95 area.server.AREA_Back.service.ServiceCacheService Class Reference

Public Member Functions

- List< ServiceResponse > getAllServicesCached ()
- List< ServiceResponse > getEnabledServicesCached ()
- void invalidateServicesCache ()
- List< ServiceResponse > getAllServicesUncached ()
- boolean isCacheAvailable ()

3.95.1 Detailed Description

Service for managing cached service data. Provides caching functionality with fallback to database when Redis is unavailable.

3.95.2 Member Function Documentation

3.95.2.1 getAllServicesCached()

```
List< ServiceResponse > area.server.AREA_Back.service.ServiceCacheService.getAllServicesCached
()
```

Gets all services from cache or database as fallback. Cache key: 'all-services' TTL: 1 hour (configured in RedisConfig)

Returns

List of all services

3.95.2.2 getAllServicesUncached()

```
List< ServiceResponse > area.server.AREA_Back.service.ServiceCacheService.getAllServices↩
Uncached ()
```

Gets all services without caching (direct database access). Used for admin operations or when cache should be bypassed.

Returns

List of all services from database

3.95.2.3 getEnabledServicesCached()

```
List< ServiceResponse > area.server.AREA_Back.service.ServiceCacheService.getEnabledServices↩
Cached ()
```

Gets enabled services from cache or database as fallback. Cache key: 'enabled-services' TTL: 1 hour (configured in RedisConfig)

Returns

List of enabled services

3.95.2.4 invalidateServicesCache()

```
void area.server.AREA_Back.service.ServiceCacheService.invalidateServicesCache ()
```

Invalidates all service cache entries. Called when services are created, updated, or deleted.

3.95.2.5 isCacheAvailable()

```
boolean area.server.AREA_Back.service.ServiceCacheService.isCacheAvailable ()
```

Checks if Redis cache is available.

Returns

true if Redis is available, false otherwise

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/ServiceCacheService.java

3.96 area.server.AREA_Back.dto.ServiceConnectionStatus Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/ServiceConnectionStatus.java

3.97 area.server.AREA_Back.controller.ServiceController Class Reference

Public Member Functions

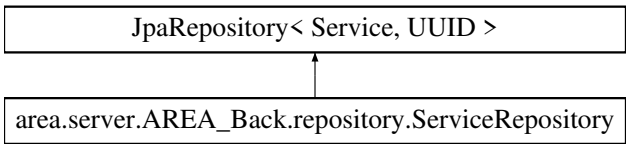
- ResponseEntity< Page< ServiceResponse > > **getAllServices** (@Parameter(description="Page number (starts at 0)") @RequestParam(defaultValue="0") int page, @Parameter(description="Page size") @RequestParam(defaultValue="20") int size, @Parameter(description="Sort field") @Request↩ Param(defaultValue="id") String sortBy, @Parameter(description="Sort direction (asc or desc)") @Request↩ Param(defaultValue="asc") String sortDir)
- ResponseEntity< ServiceResponse > **getServiceById** (@PathVariable UUID id)
- ResponseEntity< List< ServiceResponse > > **getEnabledServices** ()
- ResponseEntity< List< ServiceResponse > > **getServicesCatalog** ()
- ResponseEntity< List< ServiceResponse > > **getEnabledServicesCatalog** ()
- ResponseEntity< ServiceResponse > **createService** (@Valid @RequestBody CreateServiceRequest request)
- ResponseEntity< ServiceResponse > **updateService** (@PathVariable UUID id, @Valid @RequestBody CreateServiceRequest request)
- ResponseEntity< Void > **deleteService** (@PathVariable UUID id)
- ResponseEntity< List< ServiceResponse > > **searchServices** (@RequestParam String name)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/controller/ServiceController.java

3.98 area.server.AREA_Back.repository.ServiceRepository Interface Reference

Inheritance diagram for area.server.AREA_Back.repository.ServiceRepository:



Public Member Functions

- Optional< Service > findByKey (String key)
- Optional< Service > findByName (String name)
- boolean existsByKey (String key)
- List< Service > findAllEnabledServices ()
- List< Service > findByAuth (Service.AuthType auth)
- List< Service > findByNameContainingIgnoreCase (String name)

3.98.1 Member Function Documentation

3.98.1.1 existsByKey()

```
boolean area.server.AREA_Back.repository.ServiceRepository.existsByKey (
            String key)
```

Check if service exists by key

3.98.1.2 findAllEnabledServices()

```
List< Service > area.server.AREA_Back.repository.ServiceRepository.findAllEnabledServices ()
```

Find all enabled services

3.98.1.3 findByAuth()

```
List< Service > area.server.AREA_Back.repository.ServiceRepository.findByAuth (
            Service.AuthType auth)
```

Find services by authentication type

3.98.1.4 findByKey()

```
Optional< Service > area.server.AREA_Back.repository.ServiceRepository.findByKey (
            String key)
```

Find service by key

3.98.1.5 findByName()

```
Optional< Service > area.server.AREA_Back.repository.ServiceRepository.findByName (
            String name)
```

Find service by name

3.98.1.6 findByNameContainingIgnoreCase()

```
List< Service > area.server.AREA_Back.repository.ServiceRepository.findByNameContaining↩
IgnoreCase (
            String name)
```

Find services by name containing (case-insensitive search)

The documentation for this interface was generated from the following file:

- src/main/java/area/server/AREA_Back/repository/ServiceRepository.java

3.99 area.server.AREA_Back.dto.ServiceResponse Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/ServiceResponse.java

3.100 area.server.AREA_Back.controller.ServiceTokenController Class Reference

Public Member Functions

- ResponseEntity< ServiceTokenStatusResponse > **hasValidToken** (@PathVariable String serviceName, HttpServletRequest httpRequest)
- ResponseEntity< ServiceTokenResponse > **storeToken** (@PathVariable String serviceName, @Request↩ Body StoreTokenRequest tokenData, HttpServletRequest httpRequest)
- ResponseEntity< ServiceTokenResponse > **getToken** (@PathVariable String serviceName, HttpServlet↩ Request httpRequest)
- ResponseEntity< Void > **deleteToken** (@PathVariable String serviceName, HttpServletRequest http↩ Request)
- ResponseEntity< List< ServiceTokenResponse > > **getAllTokens** (HttpServletRequest httpRequest)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/controller/ServiceTokenController.java

3.101 area.server.AREA_Back.dto.ServiceTokenRequest Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/ServiceTokenRequest.java

3.102 area.server.AREA_Back.dto.ServiceTokenResponse Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/ServiceTokenResponse.java

3.103 area.server.AREA_Back.dto.ServiceTokenStatusResponse Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/ServiceTokenStatusResponse.java

3.104 area.server.AREA_Back.dto.StoreTokenRequest Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/StoreTokenRequest.java

3.105 area.server.AREA_Back.TestAreaBackApplication Class Reference

Static Public Member Functions

- static void **main** (String[ ] args)

The documentation for this class was generated from the following file:

- src/test/java/area/server/AREA_Back/TestAreaBackApplication.java

3.106 area.server.AREA_Back.config.TestCacheConfig Class Reference

Public Member Functions

- CacheManager **cacheManager** ()

The documentation for this class was generated from the following file:

- src/test/java/area/server/AREA_Back/config/TestCacheConfig.java

3.107 area.server.AREA_Back.TestcontainersConfiguration Class Reference

The documentation for this class was generated from the following file:

- src/test/java/area/server/AREA_Back/TestcontainersConfiguration.java

3.108 area.server.AREA_Back.controller.TestController Class Reference

Public Member Functions

- ResponseEntity< Map< String, String > > **health** ()
- ResponseEntity< Map< String, String > > **swaggerTest** ()

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/controller/TestController.java

3.109 area.server.AREA_Back.config.TestRedisConfig Class Reference

Public Member Functions

- RedisStreamProperties **testRedisStreamProperties** ()

The documentation for this class was generated from the following file:

- src/test/java/area/server/AREA_Back/config/TestRedisConfig.java

3.110 area.server.AREA_Back.config.TestSecurityConfig Class Reference

Public Member Functions

- SecurityFilterChain **testSecurityFilterChain** (HttpSecurity http) throws Exception

The documentation for this class was generated from the following file:

- src/test/java/area/server/AREA_Back/config/TestSecurityConfig.java

3.111 area.server.AREA_Back.service.TokenEncryptionService Class Reference

Public Member Functions

- **TokenEncryptionService** (@Value("${APP_ENCRYPTION_KEY:}") String base64Key)
- String encryptToken (String plainToken)
- String decryptToken (String encryptedToken)
- String getKeyAsBase64 ()

Static Public Member Functions

- static String generateNewKeyAsBase64 ()

3.111.1 Detailed Description

Service for encrypting and decrypting OAuth tokens using AES-256-GCM

3.111.2 Member Function Documentation

3.111.2.1 decryptToken()

```
String area.server.AREA_Back.service.TokenEncryptionService.decryptToken (
            String encryptedToken)
```

Decrypt a token using AES-256-GCM

Parameters

encryptedToken	Base64 encoded encrypted token with IV prepended

Returns

decrypted plain token

3.111.2.2 encryptToken()

```
String area.server.AREA_Back.service.TokenEncryptionService.encryptToken (
            String plainToken)
```

Encrypt a token using AES-256-GCM

Parameters

plainToken	the token to encrypt

Returns

Base64 encoded encrypted token with IV prepended

3.111.2.3 generateNewKeyAsBase64()

```
static String area.server.AREA_Back.service.TokenEncryptionService.generateNewKeyAsBase64 ()
[static]
```

Generate a new AES-256 key and return it as Base64 string Useful for generating keys for configuration

3.111.2.4 getKeyAsBase64()

```
String area.server.AREA_Back.service.TokenEncryptionService.getKeyAsBase64 ()
```

Get the current key as Base64 string (for configuration)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/TokenEncryptionService.java

3.112 area.server.AREA_Back.dto.TokenRefreshRequest Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/TokenRefreshRequest.java

3.113 area.server.AREA_Back.config.UnitTestConfig Class Reference

Public Member Functions

- JwtCookieProperties **jwtCookieProperties** ()

The documentation for this class was generated from the following file:

- src/test/java/area/server/AREA_Back/config/UnitTestConfig.java

3.114 area.server.AREA_Back.dto.UpdateUserRequest Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/UpdateUserRequest.java

3.115 area.server.AREA_Back.entity.User Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/entity/User.java

3.116 area.server.AREA_Back.controller.UserController Class Reference

Public Member Functions

- ResponseEntity< Page< UserResponse > > **getAllUsers** (@Parameter(description="Page number (starts at 0)") @RequestParam(defaultValue="0") int page, @Parameter(description="Page size") @Request↩ Param(defaultValue="20") int size, @Parameter(description="Sort field") @RequestParam(defaultValue="id") String sortBy, @Parameter(description="Sort direction (asc or desc)") @RequestParam(defaultValue="asc") String sortDir)
- ResponseEntity< UserResponse > **getUserById** (@Parameter(description="User ID") @PathVariable UUID id)
- ResponseEntity< List< UserResponse > > **getEnabledUsers** ()
- ResponseEntity< UserResponse > **updateUser** (@Parameter(description="User ID") @PathVariable UUID id, @Valid @RequestBody UpdateUserRequest request)
- ResponseEntity< Void > **deleteUser** (@Parameter(description="User ID") @PathVariable UUID id)
- ResponseEntity< List< UserResponse > > **searchUsers** (@Parameter(description="Email to search for") @RequestParam String email)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/controller/UserController.java

3.117 area.server.AREA_Back.service.UserIdentityService.User↩ CreationType Enum Reference

Public Attributes

- **LOCAL**
- **OAUTH**
- **BOTH**
- **UNKNOWN**

The documentation for this enum was generated from the following file:

- src/main/java/area/server/AREA_Back/service/UserIdentityService.java

3.118 area.server.AREA_Back.service.UserIdentityService Class Reference

Classes

- enum UserCreationType

Public Member Functions

- boolean hasLocalIdentity (UUID userId)
- boolean hasOAuthIdentity (UUID userId, String provider)
- List< UserOAuthIdentity > getUserOAuthIdentities (UUID userId)
- Optional< UserOAuthIdentity > getOAuthIdentity (UUID userId, String provider)
- boolean needsServiceConnection (UUID userId, String provider)
- UserCreationType getUserCreationType (UUID userId)
- Optional< String > getPrimaryOAuthProvider (UUID userId)

3.118.1 Member Function Documentation

3.118.1.1 getOAuthIdentity()

```
Optional< UserOAuthIdentity > area.server.AREA_Back.service.UserIdentityService.getOAuth↩
Identity (
            UUID userId,
            String provider)
```

Get OAuth identity for a specific provider

3.118.1.2 getPrimaryOAuthProvider()

```
Optional< String > area.server.AREA_Back.service.UserIdentityService.getPrimaryOAuthProvider (
            UUID userId)
```

Get the primary OAuth provider for a user (first one created)

3.118.1.3 getUserCreationType()

```
UserCreationType area.server.AREA_Back.service.UserIdentityService.getUserCreationType (
            UUID userId)
```

Get user creation method (LOCAL, OAUTH, or BOTH)

3.118.1.4 getUserOAuthIdentities()

```
List< UserOAuthIdentity > area.server.AREA_Back.service.UserIdentityService.getUserOAuth↩
Identities (
            UUID userId)
```

Get all OAuth identities for a user

3.118.1.5 hasLocalIdentity()

```
boolean area.server.AREA_Back.service.UserIdentityService.hasLocalIdentity (
            UUID userId)
```

Check if user has local identity (email/password)

3.118.1.6 hasOAuthIdentity()

```
boolean area.server.AREA_Back.service.UserIdentityService.hasOAuthIdentity (
            UUID userId,
            String provider)
```

Check if user has OAuth identity for a specific provider

3.118.1.7 needsServiceConnection()

```
boolean area.server.AREA_Back.service.UserIdentityService.needsServiceConnection (
            UUID userId,
            String provider)
```

Check if user needs to connect to a service for the first time Returns true if user doesn't have OAuth identity for the provider

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/UserIdentityService.java

3.119 area.server.AREA_Back.entity.UserLocalIdentity Class Reference

Public Member Functions

- boolean isAccountLocked ()
- boolean isEmailVerificationTokenValid ()
- boolean isPasswordResetTokenValid ()

3.119.1 Member Function Documentation

3.119.1.1 isAccountLocked()

```
boolean area.server.AREA_Back.entity.UserLocalIdentity.isAccountLocked ()
```

Check if the account is currently locked due to failed login attempts

3.119.1.2 isEmailVerificationTokenValid()

```
boolean area.server.AREA_Back.entity.UserLocalIdentity.isEmailVerificationTokenValid ()
```

Check if email verification token is valid (not expired)

3.119.1.3 isPasswordResetTokenValid()

```
boolean area.server.AREA_Back.entity.UserLocalIdentity.isPasswordResetTokenValid ()
```

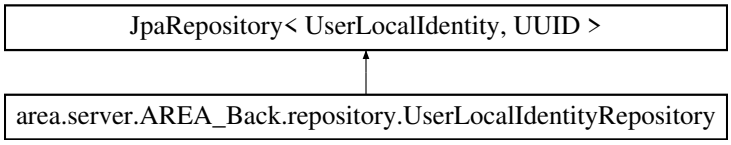
Check if password reset token is valid (not expired)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/entity/UserLocalIdentity.java

3.120 area.server.AREA_Back.repository.UserLocalIdentityRepository Interface Reference

Inheritance diagram for area.server.AREA_Back.repository.UserLocalIdentityRepository:



Public Member Functions

- Optional< UserLocalIdentity > findByEmail (String email)
- Optional< UserLocalIdentity > findByUser (User user)
- Optional< UserLocalIdentity > findByUserId (UUID userId)
- boolean existsByEmail (String email)
- Optional< UserLocalIdentity > findByEmailVerificationToken (String token)
- Optional< UserLocalIdentity > findByPasswordResetToken (String token)
- void incrementFailedLoginAttempts (@Param("email") String email)
- void resetFailedLoginAttempts (@Param("email") String email)
- void lockAccount (@Param("email") String email, @Param("lockUntil") LocalDateTime lockUntil)
- void clearEmailVerificationToken (@Param("token") String token)
- void clearPasswordResetToken (@Param("token") String token)

3.120.1 Member Function Documentation

3.120.1.1 clearEmailVerificationToken()

```
void area.server.AREA_Back.repository.UserLocalIdentityRepository.clearEmailVerificationToken
(
            @Param("token") String token)
```

Clear email verification token

3.120.1.2 clearPasswordResetToken()

```
void area.server.AREA_Back.repository.UserLocalIdentityRepository.clearPasswordResetToken (
            @Param("token") String token)
```

Clear password reset token

3.120.1.3 existsByEmail()

```
boolean area.server.AREA_Back.repository.UserLocalIdentityRepository.existsByEmail (
            String email)
```

Check if email exists

3.120.1.4 findByEmail()

```
Optional< UserLocalIdentity > area.server.AREA_Back.repository.UserLocalIdentityRepository.↩
findByEmail (
            String email)
```

Find user local identity by email

3.120.1.5 findByEmailVerificationToken()

```
Optional< UserLocalIdentity > area.server.AREA_Back.repository.UserLocalIdentityRepository.↩
findByEmailVerificationToken (
            String token)
```

Find by email verification token

3.120.1.6 findByPasswordResetToken()

```
Optional< UserLocalIdentity > area.server.AREA_Back.repository.UserLocalIdentityRepository.↩
findByPasswordResetToken (
            String token)
```

Find by password reset token

3.120.1.7 findByUser()

```
Optional< UserLocalIdentity > area.server.AREA_Back.repository.UserLocalIdentityRepository.↩
findByUser (
            User user)
```

Find user local identity by user

3.120.1.8 findByUserId()

```
Optional< UserLocalIdentity > area.server.AREA_Back.repository.UserLocalIdentityRepository.↩
findByUserId (
            UUID userId)
```

Find user local identity by user ID

3.120.1.9 incrementFailedLoginAttempts()

```
void area.server.AREA_Back.repository.UserLocalIdentityRepository.incrementFailedLoginAttempts
(
            @Param("email") String email)
```

Increment failed login attempts

3.120.1.10 lockAccount()

```
void area.server.AREA_Back.repository.UserLocalIdentityRepository.lockAccount (
            @Param("email") String email,
            @Param("lockUntil") LocalDateTime lockUntil)
```

Lock account until specified time

3.120.1.11 resetFailedLoginAttempts()

```
void area.server.AREA_Back.repository.UserLocalIdentityRepository.resetFailedLoginAttempts (
            @Param("email") String email)
```

Reset failed login attempts

The documentation for this interface was generated from the following file:

- src/main/java/area/server/AREA_Back/repository/UserLocalIdentityRepository.java

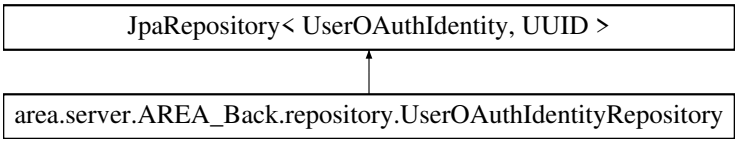
3.121 area.server.AREA_Back.entity.UserOAuthIdentity Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/entity/UserOAuthIdentity.java

3.122 area.server.AREA_Back.repository.UserOAuthIdentityRepository Interface Reference

Inheritance diagram for area.server.AREA_Back.repository.UserOAuthIdentityRepository:



Public Member Functions

- Optional< UserOAuthIdentity > findByUserAndProvider (User user, String provider)
- Optional< UserOAuthIdentity > findByUserIdAndProvider (UUID userId, String provider)
- Optional< UserOAuthIdentity > findByProviderAndProviderUserId (String provider, String providerUserId)
- List< UserOAuthIdentity > findByUser (User user)
- List< UserOAuthIdentity > findByUserId (UUID userId)
- List< UserOAuthIdentity > findByProvider (String provider)
- boolean existsByUserAndProvider (User user, String provider)
- boolean existsByUserIdAndProvider (UUID userId, String provider)
- boolean existsByProviderAndProviderUserId (String provider, String providerUserId)
- void updateAccessToken (@Param("userId") UUID userId, @Param("provider") String provider, @Param("access↩ Token") String accessToken, @Param("updatedAt") LocalDateTime updatedAt)
- void updateRefreshToken (@Param("userId") UUID userId, @Param("provider") String provider, @Param("refreshToken") String refreshToken, @Param("updatedAt") LocalDateTime updatedAt)
- void updateTokens (@Param("userId") UUID userId, @Param("provider") String provider, @Param("access↩ Token") String accessToken, @Param("refreshToken") String refreshToken, @Param("expiresAt") Local↩ DateTime expiresAt, @Param("updatedAt") LocalDateTime updatedAt)
- void updateTokenExpiration (@Param("userId") UUID userId, @Param("provider") String provider, @Param("expiresAt") LocalDateTime expiresAt, @Param("updatedAt") LocalDateTime updatedAt)
- void updateScopes (@Param("userId") UUID userId, @Param("provider") String provider, @Param("scopes") Map< String, Object > scopes, @Param("updatedAt") LocalDateTime updatedAt)
- void deleteByUserIdAndProvider (@Param("userId") UUID userId, @Param("provider") String provider)
- List< UserOAuthIdentity > findExpiredTokensWithRefreshToken (@Param("now") LocalDateTime now)
- long countByUserId (@Param("userId") UUID userId)

3.122.1 Member Function Documentation

3.122.1.1 countByUserId()

```
long area.server.AREA_Back.repository.UserOAuthIdentityRepository.countByUserId (
            @Param("userId") UUID userId)
```

Count OAuth identities for a user

3.122.1.2 deleteByUserIdAndProvider()

```
void area.server.AREA_Back.repository.UserOAuthIdentityRepository.deleteByUserIdAndProvider (
            @Param("userId") UUID userId,
            @Param("provider") String provider)
```

Delete OAuth identity by user and provider

3.122.1.3 existsByProviderAndProviderUserId()

```
boolean area.server.AREA_Back.repository.UserOAuthIdentityRepository.existsByProviderAnd↩
ProviderUserId (
            String provider,
            String providerUserId)
```

Check if provider user ID exists for a provider

3.122.1.4 existsByUserAndProvider()

```
boolean area.server.AREA_Back.repository.UserOAuthIdentityRepository.existsByUserAndProvider (
            User user,
            String provider)
```

Check if OAuth identity exists for user and provider

3.122.1.5 existsByUserIdAndProvider()

```
boolean area.server.AREA_Back.repository.UserOAuthIdentityRepository.existsByUserIdAndProvider
(
            UUID userId,
            String provider)
```

Check if OAuth identity exists for user ID and provider

3.122.1.6 findByProvider()

```
List< UserOAuthIdentity > area.server.AREA_Back.repository.UserOAuthIdentityRepository.find↩
ByProvider (
            String provider)
```

Find all OAuth identities for a specific provider

3.122.1.7 findByProviderAndProviderUserId()

```
Optional< UserOAuthIdentity > area.server.AREA_Back.repository.UserOAuthIdentityRepository.↩
findByProviderAndProviderUserId (
            String provider,
            String providerUserId)
```

Find OAuth identity by provider and provider user ID

3.122.1.8 findByUser()

```
List< UserOAuthIdentity > area.server.AREA_Back.repository.UserOAuthIdentityRepository.find↩
ByUser (
            User user)
```

Find all OAuth identities for a user

3.122.1.9 findByUserAndProvider()

```
Optional< UserOAuthIdentity > area.server.AREA_Back.repository.UserOAuthIdentityRepository.↩
findByUserAndProvider (
            User user,
            String provider)
```

Find OAuth identity by user and provider

3.122.1.10 findByUserId()

```
List< UserOAuthIdentity > area.server.AREA_Back.repository.UserOAuthIdentityRepository.find↩
ByUserId (
            UUID userId)
```

Find all OAuth identities for a user ID

3.122.1.11 findByUserIdAndProvider()

```
Optional< UserOAuthIdentity > area.server.AREA_Back.repository.UserOAuthIdentityRepository.↩
findByUserIdAndProvider (
            UUID userId,
            String provider)
```

Find OAuth identity by user ID and provider

3.122.1.12 findExpiredTokensWithRefreshToken()

```
List< UserOAuthIdentity > area.server.AREA_Back.repository.UserOAuthIdentityRepository.find↩
ExpiredTokensWithRefreshToken (
            @Param("now") LocalDateTime now)
```

Find OAuth identities with expired tokens

3.122.1.13 updateAccessToken()

```
void area.server.AREA_Back.repository.UserOAuthIdentityRepository.updateAccessToken (
            @Param("userId") UUID userId,
            @Param("provider") String provider,
            @Param("accessToken") String accessToken,
            @Param("updatedAt") LocalDateTime updatedAt)
```

Update access token for OAuth identity

3.122.1.14 updateRefreshToken()

```
void area.server.AREA_Back.repository.UserOAuthIdentityRepository.updateRefreshToken (
            @Param("userId") UUID userId,
            @Param("provider") String provider,
            @Param("refreshToken") String refreshToken,
            @Param("updatedAt") LocalDateTime updatedAt)
```

Update refresh token for OAuth identity

3.122.1.15 updateScopes()

```
void area.server.AREA_Back.repository.UserOAuthIdentityRepository.updateScopes (
            @Param("userId") UUID userId,
            @Param("provider") String provider,
            @Param("scopes") Map< String, Object > scopes,
            @Param("updatedAt") LocalDateTime updatedAt)
```

Update scopes for OAuth identity

3.122.1.16 updateTokenExpiration()

```
void area.server.AREA_Back.repository.UserOAuthIdentityRepository.updateTokenExpiration (
            @Param("userId") UUID userId,
            @Param("provider") String provider,
            @Param("expiresAt") LocalDateTime expiresAt,
            @Param("updatedAt") LocalDateTime updatedAt)
```

Update token expiration

3.122.1.17 updateTokens()

```
void area.server.AREA_Back.repository.UserOAuthIdentityRepository.updateTokens (
            @Param("userId") UUID userId,
            @Param("provider") String provider,
            @Param("accessToken") String accessToken,
            @Param("refreshToken") String refreshToken,
            @Param("expiresAt") LocalDateTime expiresAt,
            @Param("updatedAt") LocalDateTime updatedAt)
```

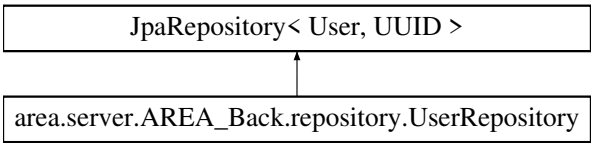
Update both access and refresh tokens

The documentation for this interface was generated from the following file:

- src/main/java/area/server/AREA_Back/repository/UserOAuthIdentityRepository.java

3.123 area.server.AREA_Back.repository.UserRepository Interface Reference

Inheritance diagram for area.server.AREA_Back.repository.UserRepository:



Public Member Functions

- Optional< User > findByEmail (String email)
- boolean existsByEmail (String email)
- java.util.List< User > findAllEnabledUsers ()

3.123.1 Member Function Documentation

3.123.1.1 existsByEmail()

```
boolean area.server.AREA_Back.repository.UserRepository.existsByEmail (
            String email)
```

Check if user exists by email

3.123.1.2 findAllEnabledUsers()

```
java.util.List< User > area.server.AREA_Back.repository.UserRepository.findAllEnabledUsers ()
```

Find enabled users

3.123.1.3 findByEmail()

```
Optional< User > area.server.AREA_Back.repository.UserRepository.findByEmail (
            String email)
```

Find user by email

The documentation for this interface was generated from the following file:

- src/main/java/area/server/AREA_Back/repository/UserRepository.java

3.124 area.server.AREA_Back.dto.UserResponse Class Reference

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/dto/UserResponse.java

3.125 area.server.AREA_Back.controller.UserServiceConnection↩ Controller Class Reference

Public Member Functions

- ResponseEntity< ServiceConnectionStatus > **getServiceConnectionStatus** (@PathVariable String serviceKey, HttpServletRequest request)
- ResponseEntity< List< ServiceConnectionStatus > > **getConnectedServices** (HttpServletRequest request)

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/controller/UserServiceConnectionController.java

3.126 area.server.AREA_Back.controller.WebhookController Class Reference

Public Member Functions

- ResponseEntity< Map< String, Object > > handleWebhook (@Parameter(description="Service name (github, slack, etc.)") @PathVariable String service, @Parameter(description="Action type (issues, pull_request, message, etc.)") @PathVariable String action, @Parameter(description="Optional user ID to scope the webhook") @RequestParam(required=false) UUID userId, @RequestBody Map< String, Object > payload, HttpServletRequest request)
- ResponseEntity< Map< String, Object > > handleGitHubWebhook (@Parameter(description="User ID for which to process the webhook") @PathVariable UUID userId, @Parameter(description="GitHub event type (e.g., issues, pull_request, push)") @RequestHeader(value="X-GitHub-Event", required=false) String eventType, @Parameter(description="GitHub webhook signature for verification") @RequestHeader(value="X-Hub-Signature-256", required=false) String signature, @Parameter(description="GitHub webhook delivery ID") @RequestHeader(value="X-GitHub-Delivery", required=false) String deliveryId, @RequestBody Map< String, Object > payload)
- ResponseEntity< Map< String, Object > > testWebhook (@PathVariable String service, @RequestParam(required=false) UUID userId, @RequestBody(required=false) Map< String, Object > payload, HttpServletRequest request)

3.126.1 Detailed Description

Controller for handling webhooks from external services

3.126.2 Member Function Documentation

3.126.2.1 handleGitHubWebhook()

```
ResponseEntity< Map< String, Object > > area.server.AREA_Back.controller.WebhookController.handleGitHubWebhook (
            @Parameter(description="User ID for which to process the webhook") @PathVariable UUID userId,
            @Parameter(description="GitHub event type (e.g., issues, pull_request, push)") @RequestHeader(value="X-GitHub-Event", required=false) String eventType,
            @Parameter(description="GitHub webhook signature for verification") @RequestHeader(value="X-Hub-Signature-256", required=false) String signature,
            @Parameter(description="GitHub webhook delivery ID") @RequestHeader(value="X-GitHub-Delivery", required=false) String deliveryId,
            @RequestBody Map< String, Object > payload)
```

GitHub-specific webhook endpoint (backward compatibility)

3.126.2.2 handleWebhook()

```
ResponseEntity< Map< String, Object > > area.server.AREA_Back.controller.WebhookController.handleWebhook (
            @Parameter(description="Service name (github, slack, etc.)") @PathVariable String service,
            @Parameter(description="Action type (issues, pull_request, message, etc.)") @PathVariable String action,
            @Parameter(description="Optional user ID to scope the webhook") @RequestParam(required=false) UUID userId,
            @RequestBody Map< String, Object > payload,
            HttpServletRequest request)
```

Generic webhook receiver endpoint POST /api/hooks/{service}/{action}

3.126.2.3 testWebhook()

```
ResponseEntity< Map< String, Object > > area.server.AREA_Back.controller.WebhookController.↩
testWebhook (
            @PathVariable String service,
            @RequestParam(required=false) UUID userId,
            @RequestBody(required=false) Map< String, Object > payload,
            HttpServletRequest request)
```

Test endpoint for webhook validation

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/controller/WebhookController.java

3.127 area.server.AREA_Back.service.WebhookDeduplicationService Class Reference

Public Member Functions

- boolean isDuplicate (String eventId, String provider)
- void markAsProcessed (String eventId, String provider)
- void markAsProcessed (String eventId, String provider, Duration customTtl)
- boolean checkAndMark (String eventId, String provider)
- boolean checkAndMark (String eventId, String provider, Duration customTtl)
- void removeEvent (String eventId, String provider)
- long getRemainingTtl (String eventId, String provider)
- void clearProviderEvents (String provider)

3.127.1 Detailed Description

Service for webhook event deduplication using Redis

3.127.2 Member Function Documentation

3.127.2.1 checkAndMark() [1/2]

```
boolean area.server.AREA_Back.service.WebhookDeduplicationService.checkAndMark (
            String eventId,
            String provider)
```

Checks if an event is a duplicate and marks it as processed if it's new This is an atomic operation to prevent race conditions

Parameters

eventId	Unique event identifier
provider	The webhook provider

Returns

true if event was already processed, false if it's new (and now marked as processed)

3.127.2.2 checkAndMark() [2/2]

```
boolean area.server.AREA_Back.service.WebhookDeduplicationService.checkAndMark (
            String eventId,
            String provider,
            Duration customTtl)
```

Checks if an event is a duplicate and marks it as processed if it's new This is an atomic operation to prevent race conditions

Parameters

eventId	Unique event identifier
provider	The webhook provider
customTtl	Custom TTL duration, null to use provider default

Returns

true if event was already processed, false if it's new (and now marked as processed)

3.127.2.3 clearProviderEvents()

```
void area.server.AREA_Back.service.WebhookDeduplicationService.clearProviderEvents (
            String provider)
```

Clears all deduplication entries for a specific provider Useful for maintenance or testing

Parameters

provider	The webhook provider

3.127.2.4 getRemainingTtl()

```
long area.server.AREA_Back.service.WebhookDeduplicationService.getRemainingTtl (
            String eventId,
            String provider)
```

Gets the remaining TTL for an event

Parameters

eventId	Unique event identifier
provider	The webhook provider

Returns

remaining TTL in seconds, -1 if key doesn't exist, -2 if key exists but has no TTL

3.127.2.5 isDuplicate()

```
boolean area.server.AREA_Back.service.WebhookDeduplicationService.isDuplicate (
            String eventId,
            String provider)
```

Checks if an event has already been processed (is a duplicate)

Parameters

eventId	Unique event identifier
provider	The webhook provider (github, slack, etc.)

Returns

true if event is a duplicate, false if it's new

3.127.2.6 markAsProcessed() [1/2]

```
void area.server.AREA_Back.service.WebhookDeduplicationService.markAsProcessed (
            String eventId,
            String provider)
```

Marks an event as processed

Parameters

eventId	Unique event identifier
provider	The webhook provider

3.127.2.7 markAsProcessed() [2/2]

```
void area.server.AREA_Back.service.WebhookDeduplicationService.markAsProcessed (
            String eventId,
            String provider,
            Duration customTtl)
```

Marks an event as processed with custom TTL

Parameters

eventId	Unique event identifier
provider	The webhook provider
customTtl	Custom TTL duration, null to use provider default

3.127.2.8 removeEvent()

```
void area.server.AREA_Back.service.WebhookDeduplicationService.removeEvent (
            String eventId,
            String provider)
```

Removes an event from the deduplication cache Useful for testing or manual cleanup

Parameters

eventId	Unique event identifier
provider	The webhook provider

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/WebhookDeduplicationService.java

3.128 area.server.AREA_Back.service.WebhookEventProcessingService Class Reference

Public Member Functions

- List< Execution > processWebhookEvent (String service, String action, Map< String, Object > payload, UUID userId)
- List< Execution > processWebhookEventForUser (String service, String action, Map< String, Object > payload, UUID userId)
- List< Execution > processWebhookEventGlobally (String service, String action, Map< String, Object > payload)

3.128.1 Detailed Description

Service for processing webhook events and triggering AREA executions

3.128.2 Member Function Documentation

3.128.2.1 processWebhookEvent()

```
List< Execution > area.server.AREA_Back.service.WebhookEventProcessingService.processWebhook↩
Event (
            String service,
            String action,
            Map< String, Object > payload,
            UUID userId)
```

Processes a webhook event and triggers matching action instances

Parameters

service	The service that sent the webhook (e.g., "github", "slack")
action	The action type (e.g., "issues", "pull_request", "message")
payload	The webhook payload
userId	Optional user ID to scope the search

Returns

List of created executions

3.128.2.2 processWebhookEventForUser()

```
List< Execution > area.server.AREA_Back.service.WebhookEventProcessingService.processWebhook↩
EventForUser (
            String service,
            String action,
            Map< String, Object > payload,
            UUID userId)
```

Processes a webhook event for a specific user

Parameters

service	The service that sent the webhook
action	The action type
payload	The webhook payload
userId	The user ID

Returns

List of created executions

3.128.2.3 processWebhookEventGlobally()

```
List< Execution > area.server.AREA_Back.service.WebhookEventProcessingService.processWebhook↩
EventGlobally (
            String service,
            String action,
            Map< String, Object > payload)
```

Processes a webhook event globally (for all users)

Parameters

service	The service that sent the webhook
action	The action type
payload	The webhook payload

Returns

List of created executions

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/WebhookEventProcessingService.java

3.129 area.server.AREA_Back.service.WebhookSignatureValidator Class Reference

Public Member Functions

- boolean validateGitHubSignature (final byte[ ] payload, final String signature, final String secret)
- boolean validateSlackSignature (final byte[ ] payload, final String signature, final String secret, final String timestamp)
- boolean validateHmacSha256Signature (final byte[ ] payload, final String signature, final String secret)
- boolean validateJwtSignature (final String jwt, final String secret)
- boolean validateSignature (final String provider, final byte[ ] payload, final String signature, final String secret, final String timestamp)

3.129.1 Detailed Description

Service for validating webhook signatures from different providers

3.129.2 Member Function Documentation

3.129.2.1 validateGitHubSignature()

```
boolean area.server.AREA_Back.service.WebhookSignatureValidator.validateGitHubSignature (
            final byte[] payload,
            final String signature,
            final String secret)
```

Validates GitHub webhook signature GitHub uses HMAC-SHA256 with format: sha256=<hash>

Parameters

payload	The raw payload bytes
signature	The signature from X-Hub-Signature-256 header
secret	The webhook secret

Returns

true if signature is valid

3.129.2.2 validateHmacSha256Signature()

```
boolean area.server.AREA_Back.service.WebhookSignatureValidator.validateHmacSha256Signature (
            final byte[] payload,
            final String signature,
            final String secret)
```

Validates generic HMAC-SHA256 signature

Parameters

payload	The raw payload bytes
signature	The signature to validate
secret	The secret key

Returns

true if signature is valid

3.129.2.3 validateJwtSignature()

```
boolean area.server.AREA_Back.service.WebhookSignatureValidator.validateJwtSignature (
            final String jwt,
            final String secret)
```

Validates JWT signature (basic implementation) For more complex JWT validation, consider using a JWT library

Parameters

jwt	The JWT token
secret	The secret key

Returns

true if signature is valid

3.129.2.4 validateSignature()

```
boolean area.server.AREA_Back.service.WebhookSignatureValidator.validateSignature (
            final String provider,
            final byte[] payload,
            final String signature,
            final String secret,
            final String timestamp)
```

Validates webhook signature based on provider type

Parameters

provider	The provider name (github, slack, etc.)
payload	The raw payload bytes
signature	The signature to validate
secret	The secret key
timestamp	Optional timestamp for providers that require it

Returns

true if signature is valid

3.129.2.5 validateSlackSignature()

```
boolean area.server.AREA_Back.service.WebhookSignatureValidator.validateSlackSignature (
            final byte[] payload,
            final String signature,
            final String secret,
            final String timestamp)
```

Validates Slack webhook signature Slack uses HMAC-SHA256 with format: v0=<hash>

Parameters

payload	The raw payload bytes
signature	The signature from X-Slack-Signature header
secret	The webhook secret
timestamp	The timestamp from X-Slack-Request-Timestamp header

Returns

true if signature is valid

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/service/WebhookSignatureValidator.java

3.130 area.server.AREA_Back.controller.WorkerController Class Reference

Public Member Functions

- ResponseEntity< Map< String, Object > > **getWorkerStatus** ()
- ResponseEntity< Map< String, Long > > **getExecutionStatistics** ()
- ResponseEntity< Map< String, Object > > **getStreamInfo** ()
- ResponseEntity< Map< String, String > > **cancelExecution** (@PathVariable UUID executionId, @RequestParam(required=false) String reason)
- ResponseEntity< Map< String, String > > **sendTestEvent** (@RequestParam UUID actionInstanceId, @RequestParam UUID areaId)
- ResponseEntity< Map< String, String > > **initializeStream** ()

The documentation for this class was generated from the following file:

- src/main/java/area/server/AREA_Back/controller/WorkerController.java

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