

Spiritum Duo

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Chapter 1

Ariadne implementation

1.0.1 Data type definitions (patient, decisionpoint, etc)

- Create data type definition
- Save in `gql/types`
- Add import to `gql/types/__init__.py`

1.0.2 Queries (getPatient, etc)

- Create query definition
- Save in `gql/query`
- Add import to `gql/query/__init__.py`

1.0.3 Mutations (createPatient, etc)

- Create mutation definition
- Save in `gql/mutation`
- Add import to `gql/mutation/__init__.py`

1.0.4 Scalars (Date/DateTime, etc)

- Add definition in `gql/scalars.py`
- Add serialize function
- Add to `type_list`

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2.1 Class Hierarchy

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Class Index

3.1 Class List

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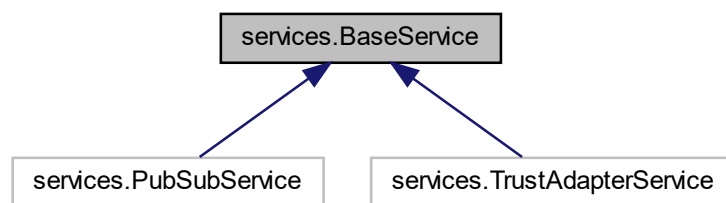
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Chapter 4

Class Documentation

4.1 `services.BaseService` Class Reference

Inheritance diagram for `services.BaseService`:



Public Member Functions

- `def __init__(self)`

Public Attributes

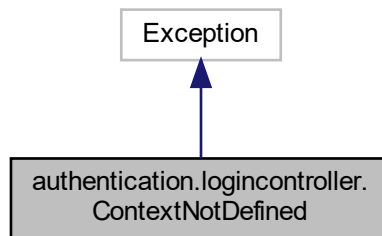
- `logger`

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

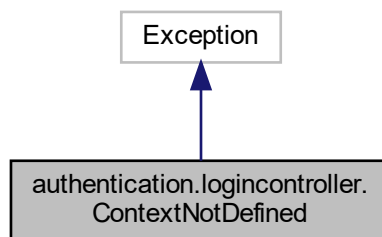
- `services.py`

4.2 authentication.logincontroller.ContextNotDefined Class Reference

Inheritance diagram for authentication.logincontroller.ContextNotDefined:



Collaboration diagram for authentication.logincontroller.ContextNotDefined:



4.2.1 Detailed Description

Raised when the context variable has
not been specified when required

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

- authentication/logincontroller.py

4.3 tests.conftest.ContextStorage Class Reference

4.3.1 Detailed Description

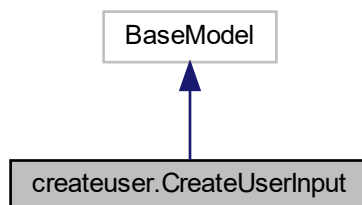
Used to hold functions and data between
test cases

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

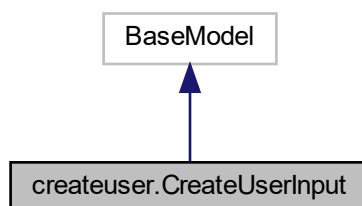
- tests/conftest.py

4.4 createuser.CreateUserInput Class Reference

Inheritance diagram for createuser.CreateUserInput:



Collaboration diagram for createuser.CreateUserInput:



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

- `rest/createuser.py`

4.5 common.DataCreatorInputErrors Class Reference

Public Member Functions

- `def __init__(self)`
- `def addError(self, str field=None, str message=None)`
- `def hasErrors(self)`

Public Attributes

- `errorList`

4.5.1 Detailed Description

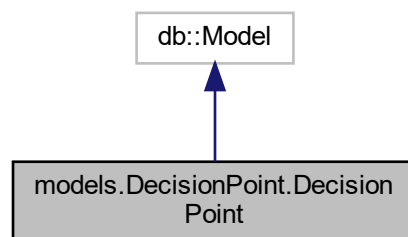
Stores user errors for data creators where user input is taken, or possible user errors occur

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

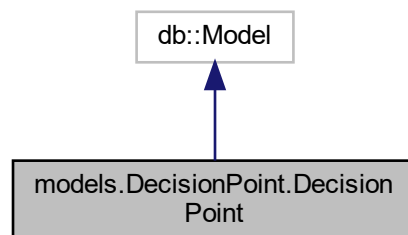
- common.py

4.6 models.DecisionPoint.DecisionPoint Class Reference

Inheritance diagram for models.DecisionPoint.DecisionPoint:



Collaboration diagram for models.DecisionPoint.DecisionPoint:



Static Public Attributes

- **id** = db.Column(db.Integer(), primary_key=True)
- **clinician_id**
- **on_pathway_id**
- **decision_type**
- **added_at**
- **updated_at**
- **clinic_history** = db.Column(db.String(), nullable=False)
- **comorbidities** = db.Column(db.String(), nullable=False)

4.6.1 Member Data Documentation

4.6.1.1 added_at

models.DecisionPoint.DecisionPoint.added_at [static]

Initial value:

```
= db.Column(  
    db.DateTime(), server_default=func.now(),  
    nullable=False)
```

4.6.1.2 clinician_id

models.DecisionPoint.DecisionPoint.clinician_id [static]

Initial value:

```
= db.Column(  
    'user_id', db.Integer(), db.ForeignKey('tbl_user.id'),  
    nullable=False  
)
```

4.6.1.3 decision_type

models.DecisionPoint.DecisionPoint.decision_type [static]

Initial value:

```
= db.Column(  
    Enum(DecisionTypes, native_enum=False),  
    default=DecisionTypes.TRIAGE.value,  
    server_default=DecisionTypes.TRIAGE.value,  
    nullable=False  
)
```

4.6.1.4 on_pathway_id

models.DecisionPoint.DecisionPoint.on_pathway_id [static]

Initial value:

```
= db.Column(  
    db.Integer(), db.ForeignKey('tbl_on_pathway.id'),  
    nullable=False  
)
```

4.6.1.5 updated_at

```
models.DecisionPoint.DecisionPoint.updated_at [static]
```

Initial value:

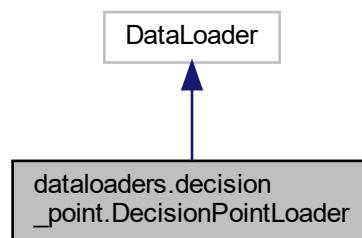
```
= db.Column(  
    db.DateTime(), server_default=func.now(),  
    onupdate=func.now(), nullable=False  
)
```

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

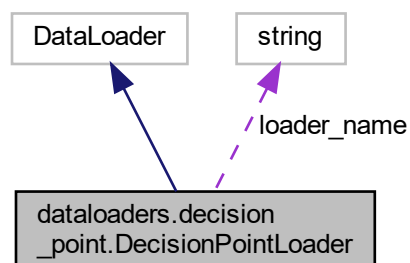
- models/DecisionPoint.py

4.7 dataloaders.decision_point.DecisionPointLoader Class Reference

Inheritance diagram for dataloaders.decision_point.DecisionPointLoader:



Collaboration diagram for dataloaders.decision_point.DecisionPointLoader:



Public Member Functions

- `def __init__ (self, db)`
- `List[DecisionPoint] fetch (self, keys)`
- `List[DecisionPoint] batch_load_fn (self, keys)`
- `Union[DecisionPoint, None] load_from_id (cls, context=None, int id=None)`
- `Union[List[DecisionPoint], None] load_many_from_id (cls, context=None, List[int] ids=None)`

Static Public Attributes

- `string loader_name = "_decision_point_loader"`

4.7.1 Detailed Description

This is class for loading decision points and caching the result in the request context

Attributes:

`loader_name (str)`: unique name of loader to cache data under

4.7.2 Member Function Documentation

4.7.2.1 load_from_id()

```
Union[DecisionPoint, None] dataloaders.decision_point.DecisionPointLoader.load_from_id (
    cls,
    context = None,
    int id = None )
```

Load a single entry from its record ID

Parameters:

`context (dict)`: request context

`id (int)`: ID to find

Returns:

`DecisionPoint/None`

4.7.2.2 load_many_from_id()

```
Union[List[DecisionPoint], None] dataloaders.decision_point.DecisionPointLoader.load_many_↵
from_id (
    cls,
    context = None,
    List[int] ids = None )
```

Load a multiple entries from their record IDs

Parameters:

`context (dict)`: request context

`id (List[int])`: IDs to find

Returns:

`List[DecisionPoint]/None`

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

- `dataloaders/decision_point.py`

4.8 dataloaders.decision_point.DecisionPointsByOnPathway Class Reference

Static Public Member Functions

- Union[List[[DecisionPoint](#)], None] [load_many_from_id](#) (context=None, id=None)

4.8.1 Detailed Description

This is class for loading decision points using an OnPathway id

Attributes:
None

4.8.2 Member Function Documentation

4.8.2.1 load_many_from_id()

```
Union[List[DecisionPoint], None] dataloaders.decision_point.DecisionPointsByOnPathway.load_many_from_id (
    context = None,
    id = None ) [static]
```

Load all decision points by an OnPathway id

Parameters:
context (dict): request context
id (List[int]): IDs of OnPathway records
Returns:
List[[DecisionPoint](#)]/None

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

- dataloaders/decision_point.py

4.9 dataloaders.decision_point.DecisionPointsByPatient Class Reference

Static Public Member Functions

- Union[List[[DecisionPoint](#)], None] [load_from_id](#) (context=None, int id=None, int pathwayId=None, [DecisionTypes](#) decisionType=None, Union[int, None] limit=None)

4.9.1 Detailed Description

This is class for loading decision points using a patient's ID

Attributes:
None

4.9.2 Member Function Documentation

4.9.2.1 load_from_id()

```
Union[List[DecisionPoint], None] dataloaders.decision_point.DecisionPointsByPatient.load_↵
from_id (
    context = None,
    int id = None,
    int pathwayId = None,
    DecisionTypes decisionType = None,
    Union[int, None] limit = None ) [static]
```

Load all decision points by a patient's record ID and where filters match

Parameters:

- context (dict): request context
- id (int): ID of patient's record
- pathwayId (int): ID of pathway to filter by
- decisionType (DecisionTypes): decision type to filter by
- limit (int): number of records to return

Returns:

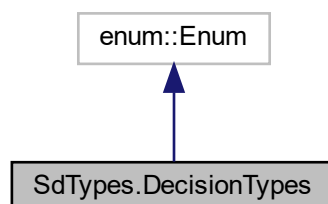
List[DecisionPoint]/None

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

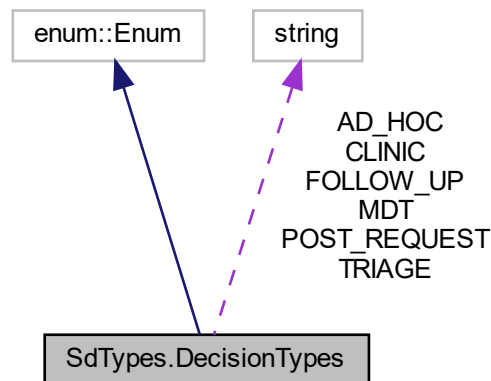
- dataloaders/decision_point.py

4.10 SdTypes.DecisionTypes Class Reference

Inheritance diagram for SdTypes.DecisionTypes:



Collaboration diagram for SdTypes.DecisionTypes:



Static Public Attributes

- string **TRIAGE** = "TRIAGE"
- string **CLINIC** = "CLINIC"
- string **MDT** = "MDT"
- string **AD_HOC** = "AD_HOC"
- string **FOLLOW_UP** = "FOLLOW_UP"
- string **POST_REQUEST** = "POST_REQUEST"

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

- SdTypes.py

4.11 authentication.logincontroller.LoginController Class Reference

Public Member Functions

- def **__init__** (self, context=None)
- def **login** (self, Request request=None)
- def **logout** (self, Request request=None)

4.11.1 Detailed Description

A class to handle authentication methods

4.11.2 Member Function Documentation

4.11.2.1 login()

```
def authentication.logincontroller.LoginController.login (
    self,
    Request request = None )
```

This collects user information from the request and attempts to authenticate the user

Parameters:
request (Request): request information

Returns:
JSONResponse

4.11.2.2 logout()

```
def authentication.logincontroller.LoginController.logout (
    self,
    Request request = None )
```

This collects user information from the request and attempts to logout the user, destroying the session key

Parameters:
request (Request): request information

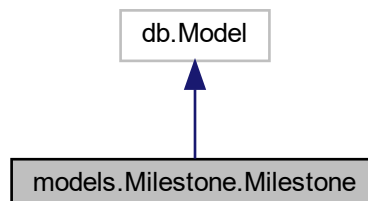
Returns:
JSONResponse

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

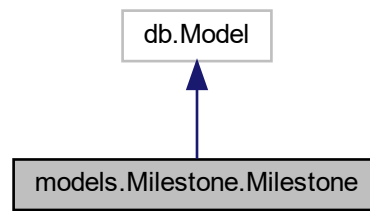
- authentication/logincontroller.py

4.12 models.Milestone.Milestone Class Reference

Inheritance diagram for models.Milestone.Milestone:



Collaboration diagram for models.Milestone.Milestone:



Static Public Attributes

- `id = db.Column(db.Integer(), primary_key=True)`
- `on_pathway_id`
- `decision_point_id`
- `fwd_decision_point_id`
- `test_result_reference_id`
- `current_state`
- `milestone_type_id`
- `added_at`
- `updated_at`

4.12.1 Member Data Documentation

4.12.1.1 added_at

```
models.Milestone.Milestone.added_at [static]
```

Initial value:

```
= db.Column(
    db.DateTime(), server_default=func.now(), nullable=False)
```

4.12.1.2 current_state

```
models.Milestone.Milestone.current_state [static]
```

Initial value:

```
= db.Column(
    Enum(MilestoneState, native_enum=False),
    default=MilestoneState.INIT.value,
    server_default=MilestoneState.INIT.value, nullable=False
)
```

4.12.1.3 decision_point_id

models.Milestone.Milestone.decision_point_id [static]

Initial value:

```
= db.Column(  
    db.Integer(),  
    db.ForeignKey('tbl_decision_point.id'), nullable=True)
```

4.12.1.4 fwd_decision_point_id

models.Milestone.Milestone.fwd_decision_point_id [static]

Initial value:

```
= db.Column(  
    db.Integer(),  
    db.ForeignKey('tbl_decision_point.id'), nullable=True)
```

4.12.1.5 milestone_type_id

models.Milestone.Milestone.milestone_type_id [static]

Initial value:

```
= db.Column(  
    db.Integer(), db.ForeignKey('tbl_milestone_type.id'), nullable=False)
```

4.12.1.6 on_pathway_id

models.Milestone.Milestone.on_pathway_id [static]

Initial value:

```
= db.Column(  
    db.Integer(),  
    db.ForeignKey('tbl_on_pathway.id'), nullable=False)
```

4.12.1.7 test_result_reference_id

models.Milestone.Milestone.test_result_reference_id [static]

Initial value:

```
= db.Column(  
    db.String(), unique=True, nullable=False)
```

4.12.1.8 updated_at

```
models.Milestone.Milestone.updated_at [static]
```

Initial value:

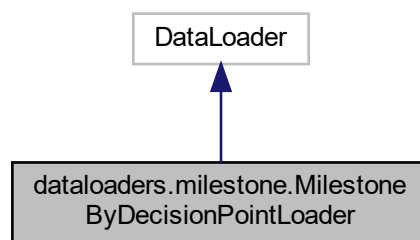
```
= db.Column(  
    db.DateTime(), server_default=func.now(), onupdate=func.now(),  
    nullable=False)
```

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

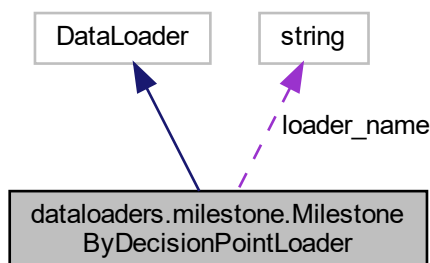
- models/Milestone.py

4.13 dataloaders.milestone.MilestoneByDecisionPointLoader Class Reference

Inheritance diagram for dataloaders.milestone.MilestoneByDecisionPointLoader:



Collaboration diagram for dataloaders.milestone.MilestoneByDecisionPointLoader:



Public Member Functions

- `def __init__ (self, db)`
- `Dict[int, Milestone] fetch (self, keys)`
- `def batch_load_fn (self, keys)`
- `Optional[Milestone] load_from_id (cls, context=None, id=None)`
- `Optional[List[Milestone]] load_many_from_id (cls, context=None, ids=None)`
- `"MilestoneByDecisionPointLoader" prime_with_context (cls, context=None, id=None, value=None)`

Static Public Attributes

- string `loader_name = "_milestone_by_decision_point_loader"`

4.13.1 Detailed Description

This is class for loading milestones using IDs from DecisionPoint and caching the result in the request context

Attributes:

`loader_name (str):` unique name of loader to cache data under

4.13.2 Member Function Documentation

4.13.2.1 load_from_id()

```
Optional[Milestone] dataloaders.milestone.MilestoneByDecisionPointLoader.load_from_id (
    cls,
    context = None,
    id = None )
```

Load a single entry from its DecisionPoint ID

Parameters:

`context (dict):` request context

`id (int):` ID to find

Returns:

Milestone/None

4.13.2.2 load_many_from_id()

Optional[List[Milestone]] dataloaders.milestone.MilestoneByDecisionPointLoader.load_many_from_id (

```
    cls,
    context = None,
    ids = None )
```

Loads multiple entries from their DecisionPoint IDs

Parameters:

```
    context (dict): request context
    id (List[int]): IDs to find
```

Returns:

```
List[Milestone]/None
```

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

- dataloaders/milestone.py

4.14 dataloaders.milestone.MilestoneByOnPathway Class Reference

Static Public Member Functions

- Union[List[Milestone], None] load_many_from_id (context=None, id=None, notOnDecisionPoint=None)

4.14.1 Detailed Description

This is class for loading milestones and caching the result in the request context

Attributes:

```
None
```

4.14.2 Member Function Documentation

4.14.2.1 load_many_from_id()

Union[List[Milestone], None] dataloaders.milestone.MilestoneByOnPathway.load_many_from_id (

```
    context = None,
    id = None,
    notOnDecisionPoint = None ) [static]
```

Load a multiple entries from their record ID

Parameters:

```
    context (dict): request context
    id (List[int]): IDs to find
    notOnDecisionPoint (bool): this is a filter that will return
        milestones based on whether they have a DecisionPoint ID
    set
```

Returns:

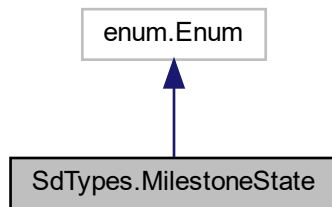
```
List[Milestone]/None
```

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

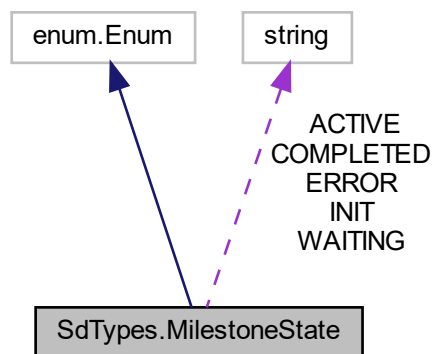
- dataloaders/milestone.py

4.15 SdTypes.MilestoneState Class Reference

Inheritance diagram for SdTypes.MilestoneState:



Collaboration diagram for SdTypes.MilestoneState:



Static Public Attributes

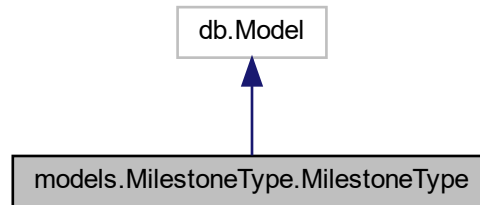
- string **INIT** = "INIT"
- string **ACTIVE** = "ACTIVE"
- string **WAITING** = "WAITING"
- string **ERROR** = "ERROR"
- string **COMPLETED** = "COMPLETED"

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

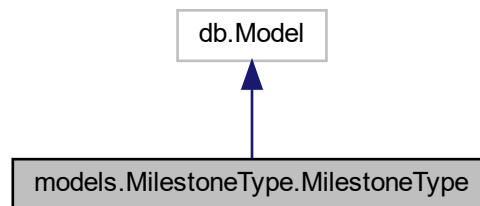
- SdTypes.py

4.16 models.MilestoneType.MilestoneType Class Reference

Inheritance diagram for models.MilestoneType.MilestoneType:



Collaboration diagram for models.MilestoneType.MilestoneType:



Static Public Attributes

- `id` = `db.Column(db.Integer(), primary_key=True)`
- `name` = `db.Column(db.String(), nullable=False)`
- `ref_name` = `db.Column(db.String(), nullable=False)`
- `is_discharge` = `db.Column(db.Boolean(), nullable=False, default=False)`
- `is_checkbox_hidden`
- `is_test_request` = `db.Column(db.Boolean(), nullable=False, default=False)`

4.16.1 Member Data Documentation

4.16.1.1 is_checkbox_hidden

`models.MilestoneType.MilestoneType.is_checkbox_hidden` [static]

Initial value:

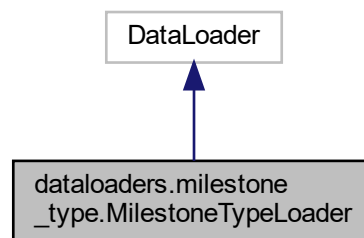
```
= db.Column(  
    db.Boolean(), nullable=False, default=False,  
    server_default="FALSE"  
)
```

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

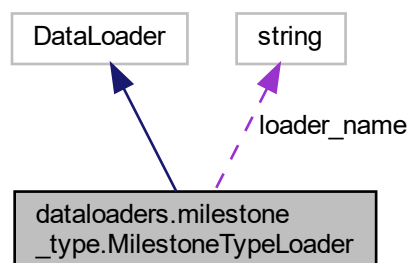
- `models/MilestoneType.py`

4.17 dataloaders.milestone_type.MilestoneTypeLoader Class Reference

Inheritance diagram for `dataloaders.milestone_type.MilestoneTypeLoader`:



Collaboration diagram for `dataloaders.milestone_type.MilestoneTypeLoader`:



Public Member Functions

- `def __init__ (self, db)`
- `Dict[int, MilestoneType] fetch (self, keys)`
- `List[MilestoneType] batch_load_fn (self, keys)`
- `Optional[MilestoneType] load_from_id (cls, context=None, id=None)`
- `Optional[List[MilestoneType]] load_many_from_id (cls, context=None, ids=None)`
- `def load_all (cls, context=None)`

Static Public Attributes

- string `loader_name = "_milestone_type_loader"`

4.17.1 Detailed Description

This is class for loading MilestoneType objects and caching the result in the request context

Attributes:

`loader_name (str)`: unique name of loader to cache data under

4.17.2 Member Function Documentation

4.17.2.1 load_all()

```
def dataloaders.milestone_type.MilestoneTypeLoader.load_all (
    cls,
    context = None )
```

Loads all MilestoneType records

Parameters:

`context (dict)`: request context

Returns:

`List[MilestoneType]/None`

4.17.2.2 load_from_id()

```
Optional[MilestoneType] dataloaders.milestone_type.MilestoneTypeLoader.load_from_id (
    cls,
    context = None,
    id = None )
```

Load a single entry from its record ID

Parameters:

`context (dict)`: request context

`id (int)`: ID to find

Returns:

`MilestoneType/None`

4.17.2.3 load_many_from_id()

```
Optional[List[MilestoneType]] dataloaders.milestone_type.MilestoneTypeLoader.load_many_from_id  
(
```

```
    cls,  
    context = None,  
    ids = None )
```

Load a multiple entries from their record IDs

Parameters:

context (dict): request context
id (List[int]): IDs to find

Returns:

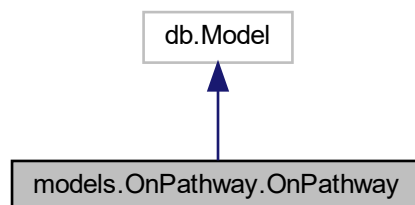
List[MilestoneType]/None

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

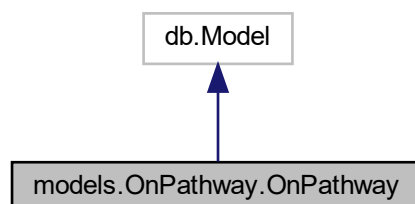
- dataloaders/milestone_type.py

4.18 models.OnPathway.OnPathway Class Reference

Inheritance diagram for models.OnPathway.OnPathway:



Collaboration diagram for models.OnPathway.OnPathway:



Static Public Attributes

- `id = db.Column(db.Integer(), primary_key=True)`
- `patient_id`
- `pathway_id`
- `is_discharged`
- `awaiting_decision_type`
- `added_at`
- `updated_at`
- `referred_at`
- `under_care_of_id`
- `lock_user_id`
- `lock_end_time`

4.18.1 Member Data Documentation

4.18.1.1 `added_at`

`models.OnPathway.OnPathway.added_at` [static]

Initial value:

```
= db.Column(  
    db.DateTime(), server_default=func.now(), nullable=False  
)
```

4.18.1.2 `awaiting_decision_type`

`models.OnPathway.OnPathway.awaiting_decision_type` [static]

Initial value:

```
= db.Column(  
    Enum(DecisionTypes, native_enum=False),  
    default=DecisionTypes.TRIAGE.value,  
    server_default=DecisionTypes.TRIAGE.value, nullable=False  
)
```

4.18.1.3 `is_discharged`

`models.OnPathway.OnPathway.is_discharged` [static]

Initial value:

```
= db.Column(  
    db.Boolean(), server_default=false(), default=False, nullable=False  
)
```

4.18.1.4 lock_end_time

models.OnPathway.OnPathway.lock_end_time [static]

Initial value:

```
= db.Column(  
    db.DateTime(), nullable=True  
)
```

4.18.1.5 lock_user_id

models.OnPathway.OnPathway.lock_user_id [static]

Initial value:

```
= db.Column(  
    db.Integer(), db.ForeignKey('tbl_user.id'), nullable=True  
)
```

4.18.1.6 pathway_id

models.OnPathway.OnPathway.pathway_id [static]

Initial value:

```
= db.Column(  
    db.Integer(), db.ForeignKey('tbl_pathway.id'), nullable=False  
)
```

4.18.1.7 patient_id

models.OnPathway.OnPathway.patient_id [static]

Initial value:

```
= db.Column(  
    db.Integer(), db.ForeignKey('tbl_patient.id'), nullable=False  
)
```

4.18.1.8 referred_at

models.OnPathway.OnPathway.referred_at [static]

Initial value:

```
= db.Column(  
    db.DateTime(), server_default=func.now(), nullable=False  
)
```

4.18.1.9 under_care_of_id

`models.OnPathway.OnPathway.under_care_of_id` [static]

Initial value:

```
= db.Column(  
    db.Integer(), db.ForeignKey('tbl_user.id'), nullable=True  
)
```

4.18.1.10 updated_at

`models.OnPathway.OnPathway.updated_at` [static]

Initial value:

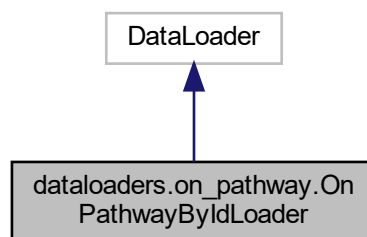
```
= db.Column(  
    db.DateTime, server_default=func.now(),  
    onupdate=func.now(), nullable=False  
)
```

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

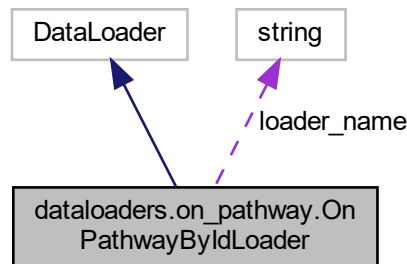
- `models/OnPathway.py`

4.19 dataloaders.on_pathway.OnPathwayByIdLoader Class Reference

Inheritance diagram for `dataloaders.on_pathway.OnPathwayByIdLoader`:



Collaboration diagram for dataloaders.on_pathway.OnPathwayByIdLoader:



Public Member Functions

- `def __init__(self, db)`
- `List[OnPathway] fetch(self, keys)`
- `List[OnPathway] batch_load_fn(self, keys)`
- `Union[OnPathway, None] load_from_id(cls, context=None, id=None)`
- `Union[List[OnPathway], None] load_many_from_id(cls, context=None, ids=None)`

Static Public Attributes

- `string loader_name = "_on_pathway_loader"`

4.19.1 Detailed Description

This is class for loading OnPathway records by their IDs

Attributes:

`loader_name (str)`: unique name of loader to cache data under

4.19.2 Member Function Documentation

4.19.2.1 load_from_id()

```

Union[OnPathway, None] dataloaders.on_pathway.OnPathwayByIdLoader.load_from_id (
    cls,
    context = None,
    id = None )
  
```

Load a single entry from its record ID

Parameters:

`context (dict)`: request context

`id (int)`: ID to find

Returns:

OnPathway/None

4.19.2.2 load_many_from_id()

```
Union[List[OnPathway], None] dataloaders.on_pathway.OnPathwayByIdLoader.load_many_from_id (
    cls,
    context = None,
    ids = None )
```

Loads many entries from their record ID

Parameters:

- context (dict): request context
- ids (List[int]): IDs to find

Returns:

- List[OnPathway]/None

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

- dataloaders/on_pathway.py

4.20 dataloaders.on_pathway.OnPathwaysByPatient Class Reference

Static Public Member Functions

- Union[List[OnPathway], None] [load_from_id](#) (context=None, id=None, pathwayId=None, includeDischarged=None, awaitingDecisionType=None, limit=None)

4.20.1 Detailed Description

This is class for loading OnPathway records by their Patient ID

Attributes:

- None

4.20.2 Member Function Documentation

4.20.2.1 load_from_id()

```
Union[List[OnPathway], None] dataloaders.on_pathway.OnPathwaysByPatient.load_from_id (
    context = None,
    id = None,
    pathwayId = None,
    includeDischarged = None,
    awaitingDecisionType = None,
    limit = None ) [static]
```

Loads OnPathway records by their Patient ID

Parameters:

```
context (dict): request context
ids (List[int]): ID to find
pathwayId (int): filter by OnPathway ID
includeDischarged (bool): filter to include discharged patients
awaitingDecisionType (DecisionTypes): filter by
    awaiting_decision_types
limit (int): number of records to return
```

Returns:

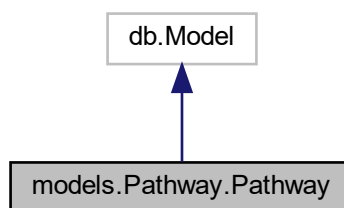
```
List[OnPathway]/None
```

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

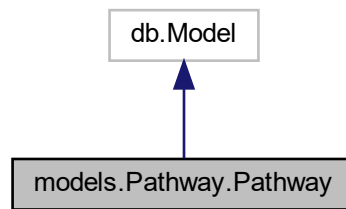
- dataloaders/on_pathway.py

4.21 models.Pathway.Pathway Class Reference

Inheritance diagram for models.Pathway.Pathway:



Collaboration diagram for models.Pathway.Pathway:



Static Public Attributes

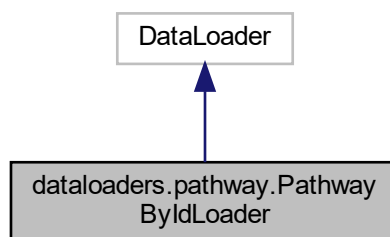
- `id` = `db.Column(db.Integer(), primary_key=True)`
- `name` = `db.Column(db.String(), unique=True)`

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

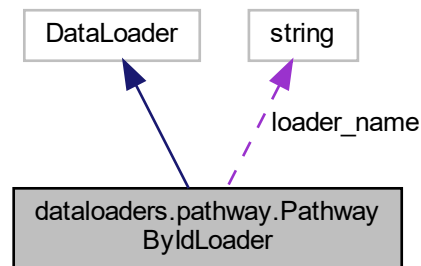
- `models/Pathway.py`

4.22 dataloaders.pathway.PathwayByldLoader Class Reference

Inheritance diagram for dataloaders.pathway.PathwayByldLoader:



Collaboration diagram for dataloaders.pathway.PathwayByIdLoader:



Public Member Functions

- `def __init__ (self, db)`
- `List[Pathway] fetch (self, keys)`
- `List[Pathway] batch_load_fn (self, keys)`
- `Union[Pathway, None] load_from_id (cls, context=None, id=None)`
- `Union[List[Pathway], None] load_many_from_id (cls, context=None, ids=None)`
- `Union[List[Pathway], None] load_all (cls)`

Static Public Attributes

- `string loader_name = "_pathway_by_id_loader"`

4.22.1 Detailed Description

This is class for loading Pathways and caching the result in the request context

Attributes:

`loader_name (str)`: unique name of loader to cache data under

4.22.2 Member Function Documentation

4.22.2.1 load_all()

`Union[List[Pathway], None] dataloaders.pathway.PathwayByIdLoader.load_all (cls)`

Loads all Pathway records

Parameters:

`None`

Returns:

`List[Pathway]/None`

4.22.2.2 load_from_id()

```
Union[Pathway, None] dataloaders.pathway.PathwayByIdLoader.load_from_id (
    cls,
    context = None,
    id = None )
```

Load a single entry from its record ID

Parameters:

context (dict): request context
id (int): ID to find

Returns:

Pathway/None

4.22.2.3 load_many_from_id()

```
Union[List[Pathway], None] dataloaders.pathway.PathwayByIdLoader.load_many_from_id (
    cls,
    context = None,
    ids = None )
```

Loads many entries from their record IDs

Parameters:

context (dict): request context
ids (List[int]): IDs to find

Returns:

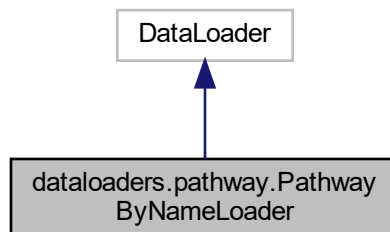
List[Pathway]/None

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

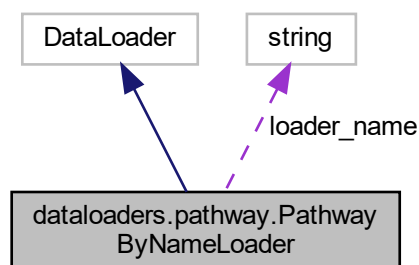
- dataloaders/pathway.py

4.23 dataloaders.pathway.PathwayByNameLoader Class Reference

Inheritance diagram for dataloaders.pathway.PathwayByNameLoader:



Collaboration diagram for dataloaders.pathway.PathwayByNameLoader:



Public Member Functions

- `def __init__(self, db)`
- `List[Pathway] fetch(self, keys)`
- `List[Pathway] batch_load_fn(self, keys)`
- `Union[Pathway, None] load_from_id(cls, context=None, id=None)`
- `Union[List[Pathway], None] load_many_from_id(cls, context=None, ids=None)`

Static Public Attributes

- `string loader_name = "_pathway_by_name_loader"`

4.23.1 Detailed Description

This is class for loading Pathways by their name and caching the result in the request context

Attributes:

`loader_name (str)`: unique name of loader to cache data under

4.23.2 Member Function Documentation

4.23.2.1 load_from_id()

```

Union[Pathway, None] dataloaders.pathway.PathwayByNameLoader.load_from_id (
    cls,
    context = None,
    id = None )
  
```

Load a single entry from its name

Parameters:

`context (dict)`: request context
`id (str)`: name to find

Returns:

Pathway/None

4.23.2.2 load_many_from_id()

```
Union[List[Pathway], None] dataloaders.pathway.PathwayByNameLoader.load_many_from_id (
    cls,
    context = None,
    ids = None )
```

Loads many entries from their names

Parameters:

context (dict): request context
ids (List[str]): names to find

Returns:

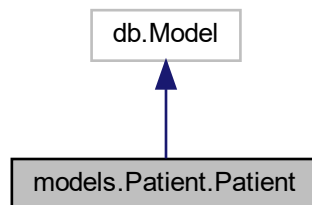
List[Pathway]/None

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

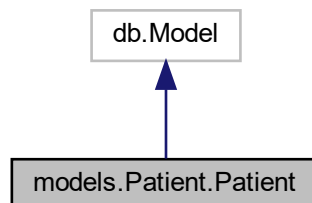
- dataloaders/pathway.py

4.24 models.Patient.Patient Class Reference

Inheritance diagram for models.Patient.Patient:



Collaboration diagram for models.Patient.Patient:



Static Public Attributes

- **id** = db.Column(db.Integer(), primary_key=True)
- **hospital_number** = db.Column(db.String(), nullable=False, unique=True)
- **national_number** = db.Column(db.String(), nullable=False, unique=True)

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

- models/Patient.py

4.25 trustadapter.trustadapter.Patient_IE Class Reference

Static Public Attributes

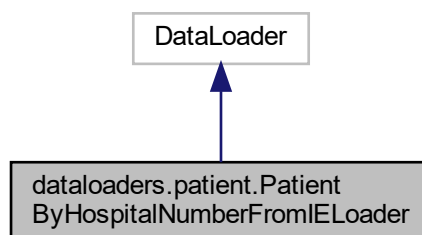
- **int**
- **str**
- **date**

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

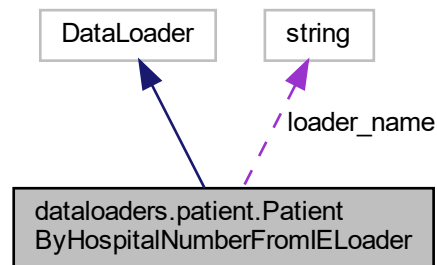
- trustadapter/trustadapter.py

4.26 dataloaders.patient.PatientByHospitalNumberFromIELoader Class Reference

Inheritance diagram for dataloaders.patient.PatientByHospitalNumberFromIELoader:



Collaboration diagram for `dataloaders.patient.PatientByHospitalNumberFromIELoader`:



Public Member Functions

- `def __init__(self, context=None)`
- `Dict[str, ReferencePatient] fetch` (self, keys, [TrustAdapter](#) trust_adapter=Provide[SDContainer.trust_adapter_service])
- `List[Patient] batch_load_fn` (self, keys)
- `Optional[ReferencePatient] load_from_id` (cls, context=None, id=None)
- `List[Optional[ReferencePatient]] load_many_from_id` (cls, context=None, ids=None)

Static Public Attributes

- `string loader_name = "_patient_by_hospital_number_from_ie_loader"`

4.26.1 Detailed Description

This is class for loading patients by their hospital numbers and caching the result in the request context from the TrustAdapter

Attributes:

- `loader_name (str)`: unique name of loader to cache data under

4.26.2 Member Function Documentation

4.26.2.1 load_from_id()

Optional[[ReferencePatient](#)] dataloaders.patient.PatientByHospitalNumberFromIELoader.load_from_id (

```

        cls,
        context = None,
        id = None )

```

Load a single entry from its hospital number from the TrustAdapter

Parameters:

```

    context (dict): request context
    id (str): ID to find

```

Returns:

```

    ReferencePatient/None

```

4.26.2.2 load_many_from_id()

List[Optional[[ReferencePatient](#)]] dataloaders.patient.PatientByHospitalNumberFromIELoader.load_many_from_id (

```

        cls,
        context = None,
        ids = None )

```

Loads multiple entries from their hospital number from the TrustAdapter

Parameters:

```

    context (dict): request context
    ids (List[str]): ID to find

```

Returns:

```

    List[ReferencePatient]/None

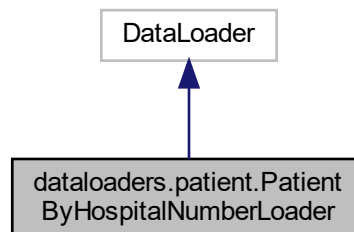
```

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

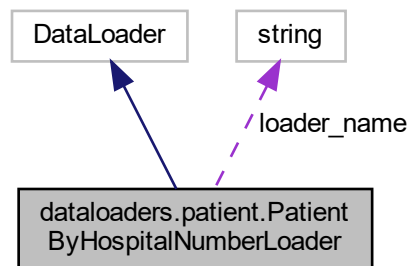
- dataloaders/patient.py

4.27 dataloaders.patient.PatientByHospitalNumberLoader Class Reference

Inheritance diagram for dataloaders.patient.PatientByHospitalNumberLoader:



Collaboration diagram for `dataloaders.patient.PatientByHospitalNumberLoader`:



Public Member Functions

- `def __init__(self, db)`
- `Dict[str, Patient] fetch(self, keys)`
- `List[Patient] batch_load_fn(self, keys)`
- `Union[Patient, None] load_from_id(cls, context=None, id=None)`
- `Union[List[Patient], None] load_many_from_id(cls, context=None, ids=None)`

Static Public Attributes

- `string loader_name = "_patient_by_hospital_number_loader"`

4.27.1 Detailed Description

This is class for loading patients by their hospital numbers and caching the result in the request context

Attributes:

`loader_name (str)`: unique name of loader to cache data under

4.27.2 Member Function Documentation

4.27.2.1 load_from_id()

```

Union[Patient, None] dataloaders.patient.PatientByHospitalNumberLoader.load_from_id (
    cls,
    context = None,
    id = None )
  
```

Load a single entry from its hospital number

Parameters:

`context (dict)`: request context
`id (str)`: ID to find

Returns:

`Patient/None`

4.27.2.2 load_many_from_id()

```
Union[List[Patient], None] dataloaders.patient.PatientByHospitalNumberLoader.load_many_from_id(
```

```
(
    cls,
    context = None,
    ids = None )
```

Loads many entries from their hospital numbers

Parameters:

```
context (dict): request context
ids (List[str]): IDs to find
```

Returns:

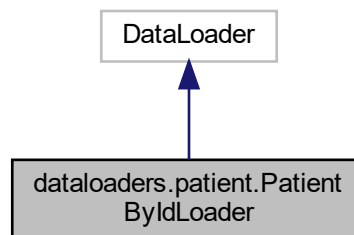
```
List[Patient]/None
```

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

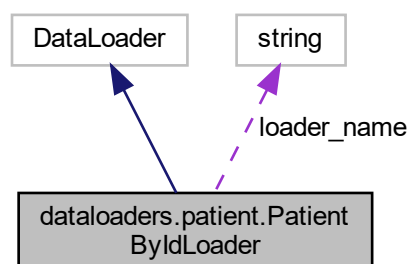
- dataloaders/patient.py

4.28 dataloaders.patient.PatientByIdLoader Class Reference

Inheritance diagram for dataloaders.patient.PatientByIdLoader:



Collaboration diagram for dataloaders.patient.PatientByIdLoader:



Public Member Functions

- `def __init__ (self, db)`
- `List[Patient] fetch (self, keys)`
- `Dict[str, Patient] batch_load_fn (self, keys)`
- `Union[Patient, None] load_from_id (cls, context=None, id=None)`
- `Union[List[Patient], None] load_many_from_id (cls, context=None, ids=None)`

Static Public Attributes

- string `loader_name = "_patient_by_id_loader"`

4.28.1 Detailed Description

This is class for loading patients and caching the result in the request context

Attributes:

`loader_name (str)`: unique name of loader to cache data under

4.28.2 Member Function Documentation

4.28.2.1 load_from_id()

```
Union[Patient, None] dataloaders.patient.PatientByIdLoader.load_from_id (
    cls,
    context = None,
    id = None )
```

Load a single entry from its record ID

Parameters:

`context (dict)`: request context

`id (int)`: ID to find

Returns:

`Patient/None`

4.28.2.2 load_many_from_id()

```
Union[List[Patient], None] dataloaders.patient.PatientByIdLoader.load_many_from_id (
    cls,
    context = None,
    ids = None )
```

Load a multiple entries from their record ID

Parameters:

`context (dict)`: request context

`id (List[int])`: IDs to find

Returns:

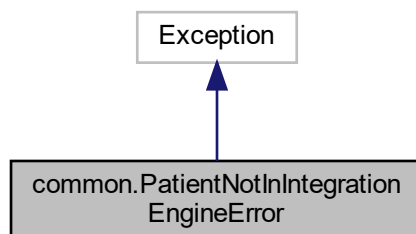
`List[Patient]/None`

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

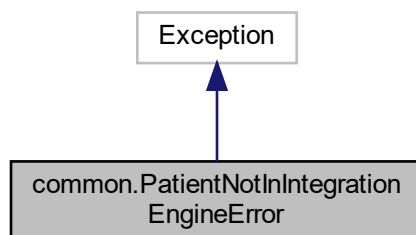
- `dataloaders/patient.py`

4.29 common.PatientNotInIntegrationEngineError Class Reference

Inheritance diagram for common.PatientNotInIntegrationEngineError:



Collaboration diagram for common.PatientNotInIntegrationEngineError:



4.29.1 Detailed Description

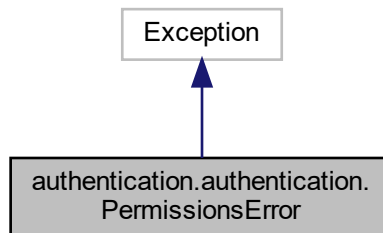
This is raised when a patient cannot be found via the integration engine

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

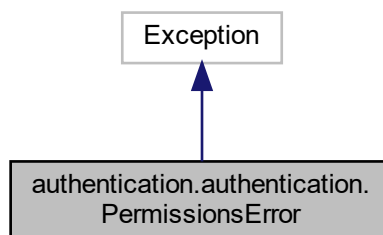
- `common.py`

4.30 authentication.authentication.PermissionsError Class Reference

Inheritance diagram for authentication.authentication.PermissionsError:



Collaboration diagram for authentication.authentication.PermissionsError:



4.30.1 Detailed Description

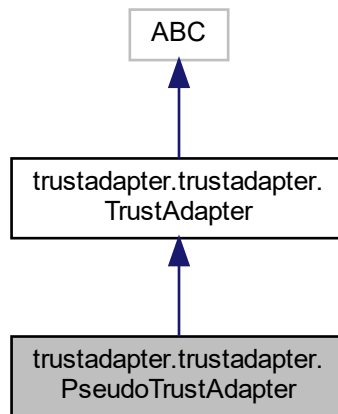
Raised when a user is lacking a required permission

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

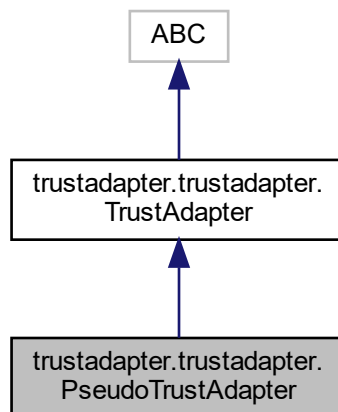
- authentication/authentication.py

4.31 trustadapter.trustadapter.PseudoTrustAdapter Class Reference

Inheritance diagram for trustadapter.trustadapter.PseudoTrustAdapter:



Collaboration diagram for trustadapter.trustadapter.PseudoTrustAdapter:



Public Member Functions

- def `__init__` (self)
- def `test_connection` (self, str auth_token=None)
- def `create_patient` (self, [Patient_IE](#) patient=None, str auth_token=None)
- Optional[[Patient_IE](#)] `load_patient` (self, str hospitalNumber=None, str auth_token=None)

- List[Optional[[Patient_IE](#)]] [load_many_patients](#) (self, List hospitalNumbers=None, str auth_token=None)
- [TestResult_IE](#) [create_test_result](#) (self, [TestResultRequest_IE](#) testResult, str auth_token=None)
- Optional[[TestResult_IE](#)] [load_test_result](#) (self, str recordId=None, str auth_token=None)
- List[Optional[[TestResult_IE](#)]] [load_many_test_results](#) (self, List recordIds=None, str auth_token=None)

Public Attributes

- [TRUST_INTEGRATION_ENGINE_ENDPOINT](#)

4.31.1 Detailed Description

Pseudo Integration Engine

This is the Integration Engine implementation for the pseudo-trust backend.

4.31.2 Constructor & Destructor Documentation

4.31.2.1 `__init__()`

```
def trustadapter.trustadapter.PseudoTrustAdapter.__init__ (
    self )
```

Pseudo Integration Engine

This is the Integration Engine implementation for the pseudo-trust backend.

Constructor

4.31.3 Member Function Documentation

4.31.3.1 `create_patient()`

```
def trustadapter.trustadapter.PseudoTrustAdapter.create_patient (
    self,
    Patient\_IE patient = None,
    str auth_token = None )
```

Create a patient on the trust
:param auth_token: Auth token string to pass to backend
:param patient: Patient to input
:return: String ID of created patient

Reimplemented from [trustadapter.trustadapter.TrustAdapter](#).

4.31.3.2 create_test_result()

```
TestResult_IE trustadapter.trustadapter.PseudoTrustAdapter.create_test_result (
    self,
    TestResultRequest_IE testResult,
    str auth_token = None )
```

Create a test result
:param auth_token: Auth token string to pass to backend
:param testResult: Test result to create
:return: String ID of created test result

Reimplemented from [trustadapter.trustadapter.TrustAdapter](#).

4.31.3.3 load_many_patients()

```
List[Optional[Patient_IE]] trustadapter.trustadapter.PseudoTrustAdapter.load_many_patients (
    self,
    List hospitalNumbers = None,
    str auth_token = None )
```

Load many patients
:param auth_token: Auth token string to pass to backend
:param hospitalNumbers: List of patient ids to load
:return: List of patients, or empty list if none found

Reimplemented from [trustadapter.trustadapter.TrustAdapter](#).

4.31.3.4 load_many_test_results()

```
List[Optional[TestResult_IE]] trustadapter.trustadapter.PseudoTrustAdapter.load_many_test_results (
    self,
    List recordIds = None,
    str auth_token = None )
```

Load many test results
:param auth_token: Auth token string to pass to backend
:param recordIds: IDs of test results to load
:return: List of test results, or empty list if none found

Reimplemented from [trustadapter.trustadapter.TrustAdapter](#).

4.31.3.5 load_patient()

```
Optional[Patient_IE] trustadapter.trustadapter.PseudoTrustAdapter.load_patient (
    self,
    str  hospitalNumber = None,
    str  auth_token = None )
```

Load single patient
:param auth_token: Auth token string to pass to backend
:param hospitalNumber: String ID of patient
:return: Patient if found, null if not

Reimplemented from [trustadapter.trustadapter.TrustAdapter](#).

4.31.3.6 load_test_result()

```
Optional[TestResult_IE] trustadapter.trustadapter.PseudoTrustAdapter.load_test_result (
    self,
    str  recordId = None,
    str  auth_token = None )
```

Load a test result
:param auth_token: Auth token string to pass to backend
:param recordId: ID of test result to load
:return: Test result, or null if test result not found

Reimplemented from [trustadapter.trustadapter.TrustAdapter](#).

4.31.3.7 test_connection()

```
def trustadapter.trustadapter.PseudoTrustAdapter.test_connection (
    self,
    str  auth_token = None )
```

Tests the connection to the trust integration engine
:return: Boolean success state of connection

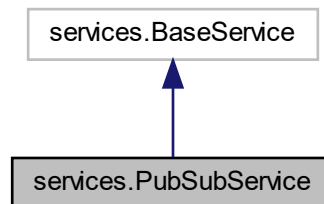
Reimplemented from [trustadapter.trustadapter.TrustAdapter](#).

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

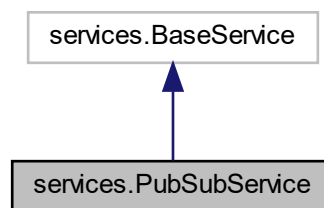
- trustadapter/trustadapter.py

4.32 services.PubSubService Class Reference

Inheritance diagram for services.PubSubService:



Collaboration diagram for services.PubSubService:



Public Member Functions

- def `__init__` (self, [SdPubSub](#) pubsub_client)
- def `publish` (self, str topic, Any message)
- def `subscribe` (self, str topic)

Additional Inherited Members

4.32.1 Constructor & Destructor Documentation

4.32.1.1 `__init__()`

```
def services.PubSubService.__init__ (
    self,
    SdPubSub pubsub_client )
```

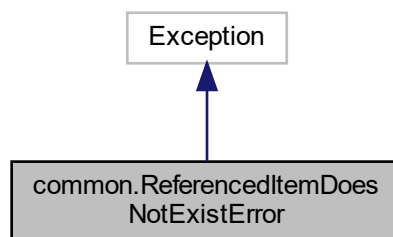
Reimplemented from [services.BaseService](#).

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

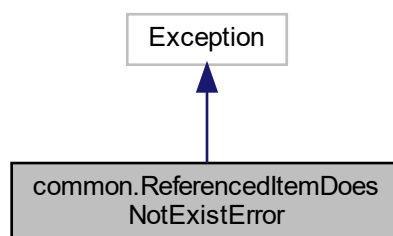
- `services.py`

4.33 `common.ReferencedItemDoesNotExistError` Class Reference

Inheritance diagram for `common.ReferencedItemDoesNotExistError`:



Collaboration diagram for `common.ReferencedItemDoesNotExistError`:



4.33.1 Detailed Description

This occurs when a referenced item does not exist and cannot be found when it should

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

- common.py

4.34 dataloaders.patient.ReferencePatient Class Reference

Static Public Attributes

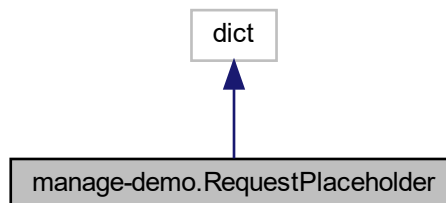
- **str**
- **date**

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

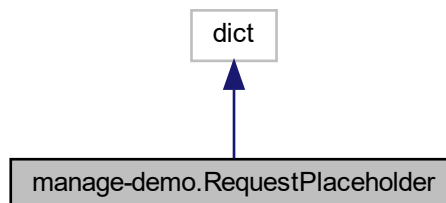
- dataloaders/patient.py

4.35 manage-demo.RequestPlaceholder Class Reference

Inheritance diagram for manage-demo.RequestPlaceholder:



Collaboration diagram for manage-demo.RequestPlaceholder:



4.35.1 Detailed Description

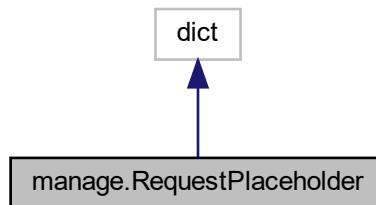
This is a test

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

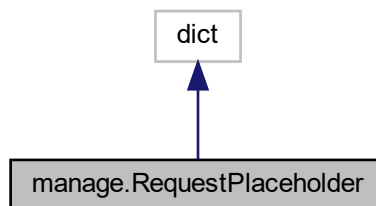
- manage-demo.py

4.36 manage.RequestPlaceholder Class Reference

Inheritance diagram for manage.RequestPlaceholder:



Collaboration diagram for manage.RequestPlaceholder:



4.36.1 Detailed Description

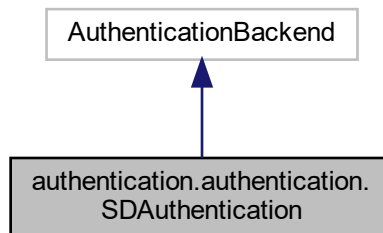
This is a class that has the properties of a dictionary too. This is to emulate how Starlette's request class operates, as context has to be passed to some functions to get the db connection and user objects

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

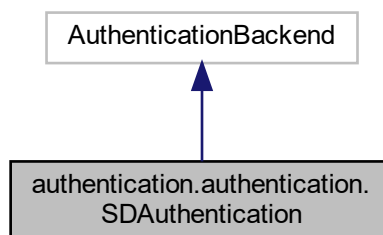
- manage.py

4.37 authentication.authentication.SDAAuthentication Class Reference

Inheritance diagram for authentication.authentication.SDAAuthentication:



Collaboration diagram for authentication.authentication.SDAAuthentication:



Public Member Functions

- def **authenticate** (self, HTTPConnection request)

4.37.1 Detailed Description

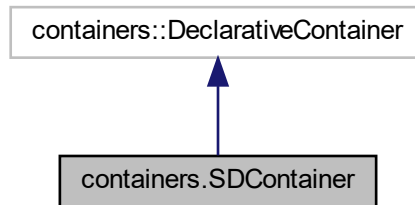
The backend's authentication mechanism as a middleware

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

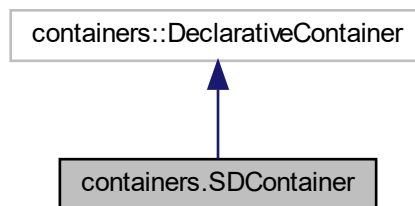
- authentication/authentication.py

4.38 containers.SDContainer Class Reference

Inheritance diagram for containers.SDContainer:



Collaboration diagram for containers.SDContainer:



Static Public Attributes

- [wiring_config](#)
- **config** = providers.Configuration()
- **trust_adapter** = [trustadapter.PseudoTrustAdapter](#)
- **pubsub** = [sdpubsub.SdPubSub](#)
- **trust_adapter_client** = providers.Singleton(trust_adapter)
- **pubsub_client** = providers.Singleton(pubsub)
- [trust_adapter_service](#)
- [pubsub_service](#)

4.38.1 Member Data Documentation

4.38.1.1 pubsub_service

containers.SDContainer.pubsub_service [static]

Initial value:

```
= providers.Factory(
    services.PubSubService,
    pubsub_client=pubsub_client
)
```

4.38.1.2 trust_adapter_service

containers.SDContainer.trust_adapter_service [static]

Initial value:

```
= providers.Factory(
    services.TrustAdapterService,
    trust_adapter_client=trust_adapter_client
)
```

4.38.1.3 wiring_config

containers.SDContainer.wiring_config [static]

Initial value:

```
= containers.WiringConfiguration(
    modules=[
        "dataloaders", "datacreators",
        "gql.mutation.create_decision_point",
        "gql.query",
        "gql.subscription.milestone_resolved",
        "rest.update_test_result",
    ]
)
```

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

- containers.py

4.39 sdpubsub.SdPubSub Class Reference

Public Member Functions

- def **__init__** (self)
- def **publish** (self, str topic, Any message)
- AsyncIterator["Subscriber"] **subscribe** (self, str topic)

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

- sdpubsub.py

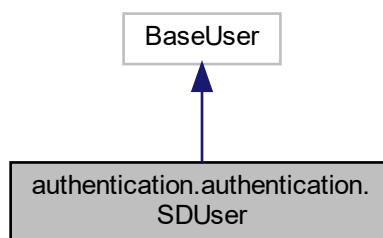
4.40 sdpubsub.SdPubSubEvent Class Reference

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

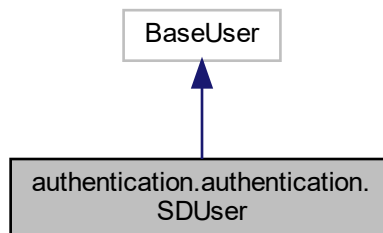
- sdpubsub.py

4.41 authentication.authentication.SDUser Class Reference

Inheritance diagram for authentication.authentication.SDUser:



Collaboration diagram for authentication.authentication.SDUser:



Public Member Functions

- None **__init__** (self, int id=None, str username=None, str firstName=None, str lastName=None, str department=None, int default_pathway_id=None # TODO:make all either camelcase or snakecase)
- bool **is_authenticated** (self)
- str **get_display_name** (self)
- str **get_formatted_name** (self)
- str **get_department** (self)

Public Attributes

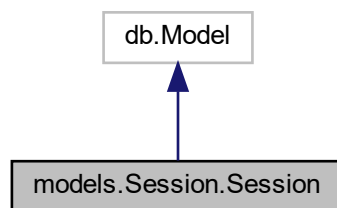
- **id**
- **username**
- **firstName**
- **lastName**
- **department**
- **default_pathway_id**

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

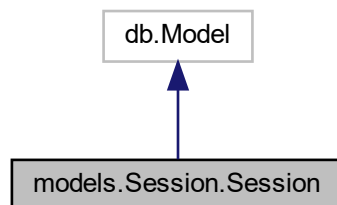
- authentication/authentication.py

4.42 models.Session.Session Class Reference

Inheritance diagram for models.Session.Session:



Collaboration diagram for models.Session.Session:



Static Public Attributes

- **session_key** = db.Column(db.String(), primary_key=True)
- **user_id**
- **expiry**

4.42.1 Member Data Documentation

4.42.1.1 expiry

```
models.Session.Session.expiry [static]
```

Initial value:

```
= db.Column(  
    db.DateTime(), server_default=func.now(), nullable=False  
)
```

4.42.1.2 user_id

```
models.Session.Session.user_id [static]
```

Initial value:

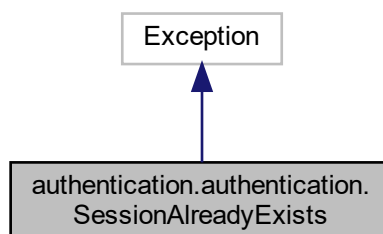
```
= db.Column(  
    db.Integer(), db.ForeignKey('tbl_user.id'), nullable=False  
)
```

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

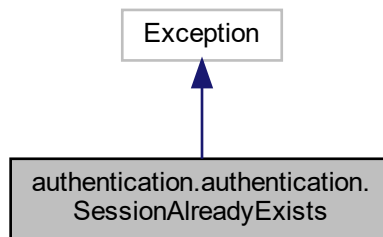
- models/Session.py

4.43 authentication.authentication.SessionAlreadyExists Class Reference

Inheritance diagram for authentication.authentication.SessionAlreadyExists:



Collaboration diagram for authentication.authentication.SessionAlreadyExists:



4.43.1 Detailed Description

Raised when a user attempts to login despite already having an active session

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

- authentication/authentication.py

4.44 sdpubsub.Subscriber Class Reference

Public Member Functions

- None `__init__` (self, asyncio.Queue queue)
- Optional[AsyncGenerator] `__aiter__` (self)
- def `get` (self)

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

- sdpubsub.py

4.45 trustadapter.trustadapter.TestResult_IE Class Reference

Static Public Attributes

- `int`
- `str`
- `datetime`

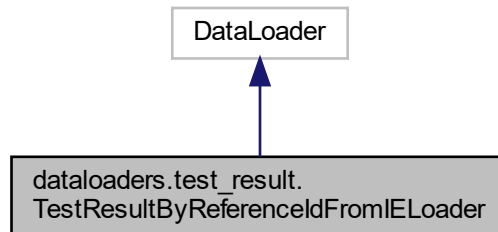
The documentation for this class was generated from the following file:

- trustadapter/trustadapter.py

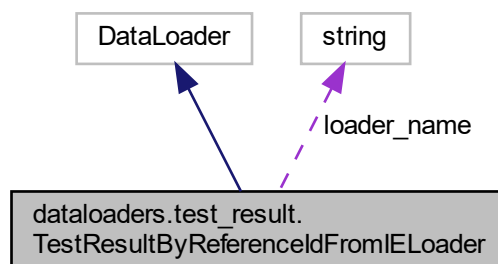
4.46 dataloaders.test_result.TestResultByReferenceIdFromIELoader

Class Reference

Inheritance diagram for dataloaders.test_result.TestResultByReferenceIdFromIELoader:



Collaboration diagram for dataloaders.test_result.TestResultByReferenceIdFromIELoader:



Public Member Functions

- `def __init__(self, context=None)`
- `Dict[int, TestResult_IE] fetch(self, keys, TrustAdapter trust_adapter=Provide[SDContainer.trust_adapter_↔ service])`
- `def batch_load_fn(self, keys)`
- `Optional[TestResult_IE] load_from_id(cls, context=None, id=None)`
- `List[Optional[TestResult_IE]] load_many_from_id(cls, context=None, ids=None)`

Static Public Attributes

- `string loader_name = "_test_result_by_reference_id_from_ie_loader"`

4.46.1 Detailed Description

This is class for loading test results by their reference IDs and caching the result in the request context

Attributes:

loader_name (str): unique name of loader to cache data under

4.46.2 Member Function Documentation

4.46.2.1 load_from_id()

Optional[TestResult_IE] dataloaders.test_result.TestResultByReferenceIdFromIELoader.load_from_id (

```
    cls,
    context = None,
    id = None )
```

Load a single entry from its reference ID

Parameters:

context (dict): request context
id (int): ID to find

Returns:

TestResult_IE/None

4.46.2.2 load_many_from_id()

List[Optional[TestResult_IE]] dataloaders.test_result.TestResultByReferenceIdFromIELoader.load_many_from_id (

```
    cls,
    context = None,
    ids = None )
```

Loads many entries from their reference ID

Parameters:

context (dict): request context
id (List[int]): IDs to find

Returns:

List[TestResult_IE]/None

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

- dataloaders/test_result.py

4.47 trustadapter.trustadapter.TestResultRequest_IE Class Reference

Static Public Attributes

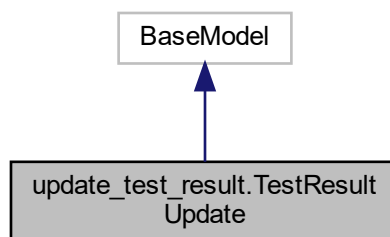
- `int`
- `str`
- `datetime`

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

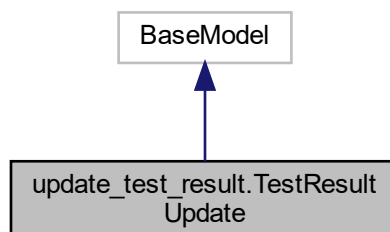
- `trustadapter/trustadapter.py`

4.48 update_test_result.TestResultUpdate Class Reference

Inheritance diagram for `update_test_result.TestResultUpdate`:



Collaboration diagram for `update_test_result.TestResultUpdate`:



Static Public Attributes

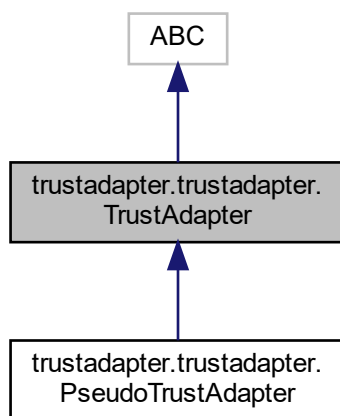
- `str`

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

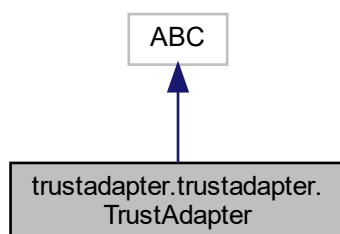
- `rest/update_test_result.py`

4.49 trustadapter.trustadapter.TrustAdapter Class Reference

Inheritance diagram for `trustadapter.trustadapter.TrustAdapter`:



Collaboration diagram for `trustadapter.trustadapter.TrustAdapter`:



Public Member Functions

- def [test_connection](#) (self, str auth_token=None)
- def [create_patient](#) (self, [Patient_IE](#) patient, str auth_token=None)
- Optional[[Patient_IE](#)] [load_patient](#) (self, str hospitalNumber=None, str auth_token=None)
- List[Optional[[Patient_IE](#)]] [load_many_patients](#) (self, List hospitalNumbers=None, str auth_token=None)
- [TestResult_IE](#) [create_test_result](#) (self, [TestResultRequest_IE](#) testResult=None, str auth_token=None)
- Optional[[TestResult_IE](#)] [load_test_result](#) (self, str recordId=None, str auth_token=None)
- List[Optional[[TestResult_IE](#)]] [load_many_test_results](#) (self, str recordIds=None, str auth_token=None)

4.49.1 Detailed Description

Integration Engine Abstract Base Class

This class represents the interface SD uses to communicate with a backend hospital system.

4.49.2 Member Function Documentation

4.49.2.1 [create_patient\(\)](#)

```
def trustadapter.trustadapter.TrustAdapter.create_patient (
    self,
    Patient_IE patient,
    str auth_token = None )
```

Create a patient on the trust
:param auth_token: Auth token string to pass to backend
:param patient: Patient to input
:return: String ID of created patient

Reimplemented in [trustadapter.trustadapter.PseudoTrustAdapter](#).

4.49.2.2 [create_test_result\(\)](#)

```
TestResult_IE trustadapter.trustadapter.TrustAdapter.create_test_result (
    self,
    TestResultRequest_IE testResult = None,
    str auth_token = None )
```

Create a test result
:param auth_token: Auth token string to pass to backend
:param testResult: Test result to create
:return: String ID of created test result

Reimplemented in [trustadapter.trustadapter.PseudoTrustAdapter](#).

4.49.2.3 load_many_patients()

```
List[Optional[Patient_IE]] trustadapter.trustadapter.TrustAdapter.load_many_patients (
    self,
    List hospitalNumbers = None,
    str auth_token = None )
```

Load many patients
:param auth_token: Auth token string to pass to backend
:param hospitalNumbers: List of patient ids to load
:return: List of patients, or empty list if none found

Reimplemented in [trustadapter.trustadapter.PseudoTrustAdapter](#).

4.49.2.4 load_many_test_results()

```
List[Optional[TestResult_IE]] trustadapter.trustadapter.TrustAdapter.load_many_test_results (
    self,
    str recordIds = None,
    str auth_token = None )
```

Load many test results
:param auth_token: Auth token string to pass to backend
:param recordIds: IDs of test results to load
:return: List of test results, or empty list if none found

Reimplemented in [trustadapter.trustadapter.PseudoTrustAdapter](#).

4.49.2.5 load_patient()

```
Optional[Patient_IE] trustadapter.trustadapter.TrustAdapter.load_patient (
    self,
    str hospitalNumber = None,
    str auth_token = None )
```

Load single patient
:param auth_token: Auth token string to pass to backend
:param hospitalNumber: String ID of patient
:return: Patient if found, null if not

Reimplemented in [trustadapter.trustadapter.PseudoTrustAdapter](#).

4.49.2.6 load_test_result()

```
Optional[TestResult_IE] trustadapter.trustadapter.TrustAdapter.load_test_result (
    self,
    str recordId = None,
    str auth_token = None )
```

Load a test result
:param auth_token: Auth token string to pass to backend
:param recordId: ID of test result to load
:return: Test result, or null if test result not found

Reimplemented in [trustadapter.trustadapter.PseudoTrustAdapter](#).

4.49.2.7 test_connection()

```
def trustadapter.trustadapter.TrustAdapter.test_connection (
    self,
    str auth_token = None )
```

Tests the connection to the trust integration engine
:return: Boolean success state of connection

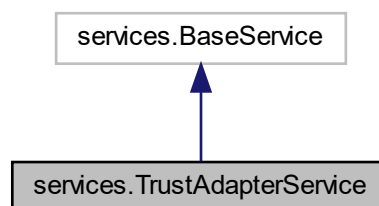
Reimplemented in [trustadapter.trustadapter.PseudoTrustAdapter](#).

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

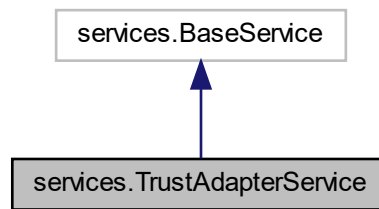
- trustadapter/trustadapter.py

4.50 services.TrustAdapterService Class Reference

Inheritance diagram for services.TrustAdapterService:



Collaboration diagram for services.TrustAdapterService:



Public Member Functions

- `def __init__` (self, [TrustAdapter](#) trust_adapter_client=None)
- `def test_connection` (self, str auth_token=None)
- `def create_patient` (self, [Patient_IE](#) patient, str auth_token=None)
- `Optional[Patient_IE] load_patient` (self, str hospitalNumber=None, str auth_token=None)
- `List[Optional[Patient_IE]] load_many_patients` (self, List hospitalNumbers=None, str auth_token=None)
- `TestResult_IE create_test_result` (self, [TestResultRequest_IE](#) testResult=None, str auth_token=None)
- `Optional[TestResult_IE] load_test_result` (self, str recordId=None, str auth_token=None)
- `List[Optional[TestResult_IE]] load_many_test_results` (self, str recordIds=None, str auth_token=None)

Additional Inherited Members

4.50.1 Constructor & Destructor Documentation

4.50.1.1 __init__()

```

def services.TrustAdapterService.__init__ (
    self,
    TrustAdapter trust_adapter_client = None )
  
```

Reimplemented from [services.BaseService](#).

4.50.2 Member Function Documentation

4.50.2.1 create_patient()

```
def services.TrustAdapterService.create_patient (
    self,
    Patient_IE patient,
    str auth_token = None )
```

Create a patient on the trust
:param auth_token: Auth token string to pass to backend
:param patient: Patient to input
:return: String ID of created patient

4.50.2.2 create_test_result()

```
TestResult_IE services.TrustAdapterService.create_test_result (
    self,
    TestResultRequest_IE testResult = None,
    str auth_token = None )
```

Create a test result
:param auth_token: Auth token string to pass to backend
:param testResult: Test result to create
:return: String ID of created test result

4.50.2.3 load_many_patients()

```
List[Optional[Patient_IE]] services.TrustAdapterService.load_many_patients (
    self,
    List hospitalNumbers = None,
    str auth_token = None )
```

Load many patients
:param auth_token: Auth token string to pass to backend
:param hospitalNumbers: List of patient ids to load
:return: List of patients, or empty list if none found

4.50.2.4 load_many_test_results()

```
List[Optional[TestResult_IE]] services.TrustAdapterService.load_many_test_results (
    self,
    str recordIds = None,
    str auth_token = None )
```

Load many test results
:param auth_token: Auth token string to pass to backend
:param recordIds: IDs of test results to load
:return: List of test results, or empty list if none found

4.50.2.5 load_patient()

```
Optional[Patient_IE] services.TrustAdapterService.load_patient (
    self,
    str  hospitalNumber = None,
    str  auth_token = None )
```

Load single patient
:param auth_token: Auth token string to pass to backend
:param hospitalNumber: String ID of patient
:return: Patient if found, null if not

4.50.2.6 load_test_result()

```
Optional[TestResult_IE] services.TrustAdapterService.load_test_result (
    self,
    str  recordId = None,
    str  auth_token = None )
```

Load a test result
:param auth_token: Auth token string to pass to backend
:param recordId: ID of test result to load
:return: Test result, or null if test result not found

4.50.2.7 test_connection()

```
def services.TrustAdapterService.test_connection (
    self,
    str  auth_token = None )
```

Tests the connection to the trust integration engine
:return: Boolean success state of connection

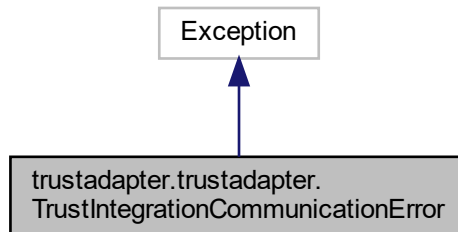
The documentation for this class was generated from the following file:

- services.py

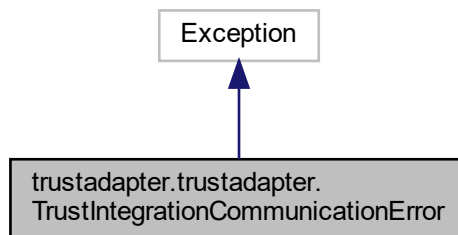
4.51 trustadapter.trustadapter.TrustIntegrationCommunicationError

Class Reference

Inheritance diagram for trustadapter.trustadapter.TrustIntegrationCommunicationError:



Collaboration diagram for trustadapter.trustadapter.TrustIntegrationCommunicationError:



4.51.1 Detailed Description

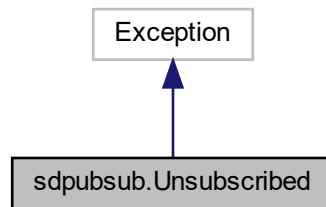
This is raised when the connection to the trust adapter fails or times out

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

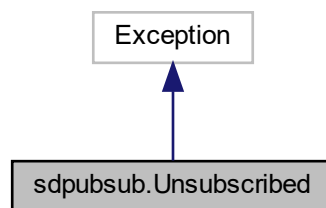
- `trustadapter/trustadapter.py`

4.52 sdpubsub.Unsubscribed Class Reference

Inheritance diagram for sdpubsub.Unsubscribed:



Collaboration diagram for sdpubsub.Unsubscribed:

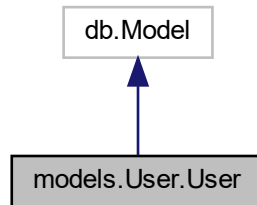


The documentation for this class was generated from the following file:

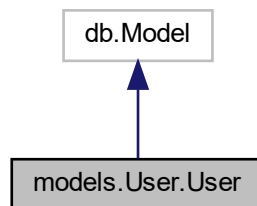
- sdpubsub.py

4.53 models.User.User Class Reference

Inheritance diagram for models.User.User:



Collaboration diagram for models.User.User:



Static Public Attributes

- **id** = db.Column(db.Integer(), primary_key=True)
- **username** = db.Column(db.String(), nullable=False, unique=True)
- **password** = db.Column(db.String(), nullable=False)
- **first_name** = db.Column(db.String(), nullable=False)
- **last_name** = db.Column(db.String(), nullable=False)
- **department** = db.Column(db.String(), nullable=False)
- [last_login](#)
- **is_active** = db.Column(db.Boolean(), nullable=False, default=True)
- [default_pathway_id](#)

4.53.1 Member Data Documentation

4.53.1.1 default_pathway_id

```
models.User.User.default_pathway_id [static]
```

Initial value:

```
= db.Column(  
    db.Integer(), db.ForeignKey('tbl_pathway.id'), nullable=False  
)
```

4.53.1.2 last_login

```
models.User.User.last_login [static]
```

Initial value:

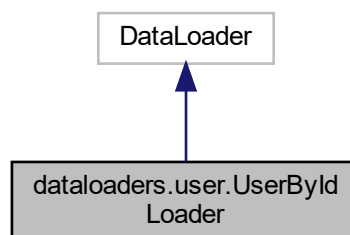
```
= db.Column(  
    db.DateTime(), server_default=func.now(),  
    nullable=False  
)
```

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

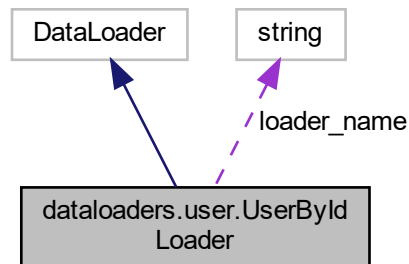
- models/User.py

4.54 dataloaders.user.UserByIdLoader Class Reference

Inheritance diagram for dataloaders.user.UserByIdLoader:



Collaboration diagram for `dataloaders.user.UserByIdLoader`:



Public Member Functions

- `def __init__(self, db)`
- `List[User] fetch(self, keys)`
- `List[User] batch_load_fn(self, keys)`
- `Union[User, None] load_from_id(cls, context=None, id=None)`
- `Union[List[User], None] load_many_from_id(cls, context=None, ids=None)`

Static Public Attributes

- `string loader_name = "_user_by_id_loader"`

4.54.1 Detailed Description

This is class for loading users and caching the result in the request context

Attributes:

`loader_name (str)`: unique name of loader to cache data under

4.54.2 Member Function Documentation

4.54.2.1 load_from_id()

```

Union[User, None] dataloaders.user.UserByIdLoader.load_from_id (
    cls,
    context = None,
    id = None )
  
```

Load a single entry from its record ID

Parameters:

`context (dict)`: request context
`id (int)`: ID to find

Returns:

User/None

4.54.2.2 load_many_from_id()

```
Union[List[User], None] dataloaders.user.UserByIdLoader.load_many_from_id (
    cls,
    context = None,
    ids = None )
```

Loads many entieres from their record ID

Parameters:

- context (dict): request context
- id (List[int]): ID to find

Returns:

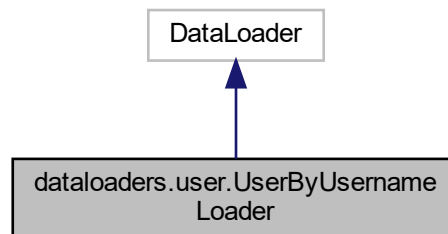
- List[User]/None

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

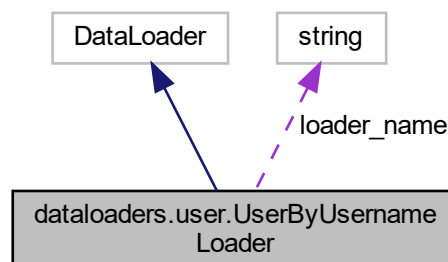
- dataloaders/user.py

4.55 dataloaders.user.UserByUsernameLoader Class Reference

Inheritance diagram for dataloaders.user.UserByUsernameLoader:



Collaboration diagram for dataloaders.user.UserByUsernameLoader:



Public Member Functions

- `def __init__(self, db)`
- `List[User] fetch (self, keys)`
- `List[User] batch_load_fn (self, keys)`
- `Union[User, None] load_from_id (cls, context=None, id=None)`
- `Union[List[User], None] load_many_from_id (cls, context=None, ids=None)`

Static Public Attributes

- string `loader_name = "_user_by_username_loader"`

4.55.1 Detailed Description

This is class for loading users by their username and caching the result in the request context

Attributes:

`loader_name (str)`: unique name of loader to cache data under

4.55.2 Member Function Documentation

4.55.2.1 load_from_id()

```
Union[User, None] dataloaders.user.UserByUsernameLoader.load_from_id (
    cls,
    context = None,
    id = None )
```

Load a single entry from its username

Parameters:

`context (dict)`: request context

`id (str)`: username to find

Returns:

`User/None`

4.55.2.2 load_many_from_id()

```
Union[List[User], None] dataloaders.user.UserByUsernameLoader.load_many_from_id (
    cls,
    context = None,
    ids = None )
```

Loads many entries from their usernames

Parameters:

`context (dict)`: request context

`ids (List[str])`: username to find

Returns:

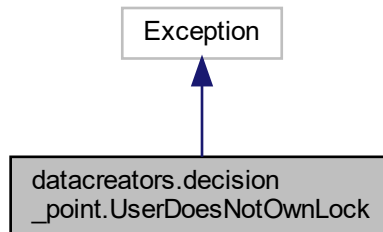
`List[User]/None`

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

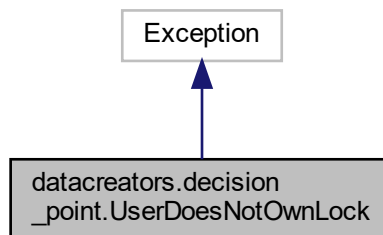
- `dataloaders/user.py`

4.56 datacreators.decision_point.UserDoesNotOwnLock Class Reference

Inheritance diagram for datacreators.decision_point.UserDoesNotOwnLock:



Collaboration diagram for datacreators.decision_point.UserDoesNotOwnLock:



4.56.1 Detailed Description

This is raised when the user attempts to submit a decision point whilst not owning the OnPathway lock

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

- datacreators/decision_point.py

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