msaSDK Module

.auth.auth.models

Classes

BaseGroup

BaseRBAC

```
Bases: PkMixin

Attributes

__table_args__ class-attribute

__table_args__ = {'extend_existing': True}

desc class-attribute

desc: str = Field(
    default="",
    title=_("Description"),
    max_length=400,
```

msa_ui_form_item="textarea",

```
key class-attribute
      key: str = Field(
         Ellipsis,
         title=_("Identify"),
          max_length=20,
          sa_column=Column(
              String(20), unique=True, index=True, nullable=False
   name class-attribute
      name: str = Field(Ellipsis, title=_('Name'), max_length=20)
BaseUser
   Bases: PkMixin, UsernameMixin, PasswordMixin, EmailMixin, CreateTimeMixin
   Attributes
   __table_args__ class-attribute
      __table_args__ = {'extend_existing': True}
   __tablename__ class-attribute
      __tablename__ = 'auth_user'
   avatar class-attribute
      avatar: str = Field(
          None,
          title=_("Avatar"),
          max_length=100,
          msa_ui_form_item=InputImage(
              maxLength=1,
              maxSize=2 * 1024 * 1024,
              receiver="post:/admin/file/upload",
          msa_ui_table_column=ColumnImage(
```

width=50, height=50, enlargeAble=True

```
),
)
```

is_active class-attribute

```
is_active: bool = Field(default=True, title=_('Is Active'))
```

nickname class-attribute

```
nickname: str = Field(
    None, title=_("Nickname"), max_length=32
)
```

Classes

Config

Attributes

use_enum_values [class-attribute]

```
use_enum_values = True
```

Functions

display_name property

```
display_name() -> str
```

has_requires

```
has_requires(
    session: Session,
    *,
    roles: Union[str, Sequence[str]] = None,
    groups: Union[str, Sequence[str]] = None,
    permissions: Union[str, Sequence[str]] = None
) -> bool
```

Check if the user has the specified RBAC privileges

PARAMETER DESCRIPTION

| PARAMETER | DESCRIPTION | |
|-------------|--|---------------|
| session | sqlalchemy Session; asynchronous AsyncSession, please use run_sync method. | |
| roles | TYPE: Session list of roles TYPE: Union[str, Sequence[str]] | DEFAULT: None |
| groups | <pre>list of user groups TYPE: Union[str, Sequence[str]]</pre> | DEFAULT: None |
| permissions | <pre>list of permissions TYPE: Union[str, Sequence[str]]</pre> | DEFAULT: None |

| RETURNS | DESCRIPTION |
|---------|---------------------------------------|
| bool | Return True for successful detection. |

identity property

```
identity() -> str
```

is_authenticated property

```
is_authenticated() -> bool
```

CreateTimeMixin

Bases: SQLModel

Attributes

create_time class-attribute

```
create_time: datetime = Field(
    default_factory=datetime.now, title=_("Create Time")
)
```

EmailMixin

```
Bases: SQLMode1

Attributes

email class-attribute

email: EmailStr = Field(
    None,
    title=_("Email"),
    sa_column=Column(
        String(50), unique=True, index=True, nullable=True
    ),
    msa_ui_form_item="input-email",
    )
```

Group

```
Bases: BaseGroup
Group
Attributes

roles class-attribute

roles: List[Role] = Relationship(
          back_populates="groups", link_model=GroupRoleLink
)
```

GroupRoleLink

```
Attributes

__table_args__ class-attribute

__table_args__ = {'extend_existing': True}

__tablename__ class-attribute

__tablename__ class-attribute
```

```
group_id class-attribute

group_id: Optional[int] = Field(
    default=None,
    foreign_key="auth_group.id",
    primary_key=True,
    nullable=False,
)

role_id class-attribute

role_id: Optional[int] = Field(
    default=None,
    foreign_key="auth_role.id",
    primary_key=True,
    nullable=False,
)
```

PasswordMixin

```
Bases: SQLMode1

Attributes

password class-attribute

password: PasswordStr = Field(
    title=_("Password"),
    max_length=128,
    sa_column=Column(String(128), nullable=False),
    msa_ui_form_item="input-password",
)
```

PasswordStr

Bases: SecretStr, str

Permission

Bases: BaseRBAC

Permisson

Attributes

_tablename__ class-attribute

```
__tablename__ = 'auth_permission'

roles class-attribute

roles: List[Role] = Relationship(
    back_populates="permissions",
    link_model=RolePermissionLink,
)
```

PkMixin

```
Bases: SQLModel

Attributes

id class-attribute

id: int = Field(
    default=None, primary_key=True, nullable=False
)
```

Role

RolePermissionLink

```
Bases: SQLModel
Attributes
__table_args__ class-attribute
  __table_args__ = {'extend_existing': True}
__tablename__ class-attribute
  __tablename__ = 'auth_role_permissions'
permission_id class-attribute
  permission_id: Optional[int] = Field(
      default=None,
      foreign_key="auth_permission.id",
      primary_key=True,
      nullable=False,
role_id class-attribute
  role_id: Optional[int] = Field(
      default=None,
      foreign_key="auth_role.id",
      primary_key=True,
      nullable=False,
```

User

```
Attributes

__table_args__ class-attribute

__table_args__ = {'extend_existing': True}

__tablename__ class-attribute
```

```
__tablename__ = 'auth_user'
groups class-attribute
  groups: List[Group] = Relationship(link_model=UserGroupLink)
roles class-attribute
  roles: List[Role] = Relationship(link_model=UserRoleLink)
```

UserGroupLink

```
Bases: SQLModel
Attributes
\_table_args\_ _{class-attribute}
  __table_args__ = {'extend_existing': True}
__tablename__ class-attribute
  __tablename__ = 'auth_user_groups'
group_id class-attribute
  group_id: Optional[int] = Field(
      default=None,
      foreign_key="auth_group.id",
      primary_key=True,
      nullable=False,
USer_id class-attribute
  user_id: Optional[int] = Field(
     default=None,
      foreign_key="auth_user.id",
      primary_key=True,
      nullable=False,
```

UserRoleLink

```
Bases: SQLModel
Attributes
__table_args__ class-attribute
  __table_args__ = {'extend_existing': True}
__tablename__ class-attribute
  __tablename__ = 'auth_user_roles'
role_id class-attribute
  role_id: Optional[int] = Field(
      default=None,
      foreign_key="auth_role.id",
      primary_key=True,
      nullable=False,
user_id class-attribute
  user_id: Optional[int] = Field(
      default=None,
      foreign_key="auth_user.id",
      primary_key=True,
      nullable=False,
```

UsernameMixin

```
Attributes

Username class-attribute

username: str = Field(
    title=_("Username"),
    max_length=32,
    sa_column=Column(
        String(32), unique=True, index=True, nullable=False
```

```
),
```

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