

## u2d\_msa\_sdk Module

### .auth.auth.auth

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## Classes

### Auth

Bases: `Generic[_UserModelT]`

#### Attributes

`backend` instance-attribute

```
backend = self.backend or AuthBackend(
    self, token_store or DbTokenStore(self.db)
)
```

`db` instance-attribute

```
db = db or self.db
```

`pwd_context` instance-attribute

```
pwd_context = pwd_context
```

`user_model` instance-attribute

```
user_model = user_model or self.user_model
```

#### Functions

`__init__`

```
__init__(
    db: Union[AsyncDatabase, Database],
    token_store: BaseTokenStore = None,
```

```

    user_model: Type[_UserModelT] = User,
    pwd_context: CryptContext = CryptContext(
        schemes=["bcrypt"], deprecated="auto"
    ),
)

```

### authenticate\_user async

```

authenticate_user(
    username: str, password: Union[str, SecretStr]
) -> Optional[_UserModelT]

```

### create\_role\_user async

```

create_role_user(role_key: str = 'admin') -> User

```

### get\_current\_user

```

get_current_user()

```

### requires

```

requires(
    roles: Union[str, Sequence[str]] = None,
    groups: Union[str, Sequence[str]] = None,
    permissions: Union[str, Sequence[str]] = None,
    status_code: int = 403,
    redirect: str = None,
    response: Union[bool, Response] = None,
) -> Callable

```

## AuthBackend

Bases: `AuthenticationBackend`, `Generic[_UserModelT]`

### Attributes

auth instance-attribute

```

auth = auth

```

token\_store instance-attribute

```

token_store = token_store

```

## Functions

### `__init__`

```
__init__(auth: Auth, token_store: BaseTokenStore)
```

### `attach_middleware`

```
attach_middleware(app: FastAPI)
```

### `authenticate` async

```
authenticate(
    request: Request,
) -> Tuple[Auth, Optional[_UserModelT]]
```

### `get_user_token` staticmethod

```
get_user_token(request: Request) -> Optional[str]
```

## AuthRouter

Bases: `MSARouterMixin`

### Attributes

#### `auth` instance-attribute

```
auth = auth or self.auth
```

#### `router_prefix` class-attribute

```
router_prefix = '/auth'
```

#### `schema_user_info` instance-attribute

```
schema_user_info = (
    self.schema_user_info
    or schema_create_by_schema(
        self.auth.user_model,
        "UserInfo",
        exclude={"password"},
    )
```

```
)
)
```

schema\_user\_login\_out class-attribute

```
schema_user_login_out: Type[UserLoginOut] = UserLoginOut
```

## Classes

### OAuth2

Bases: OAuth2PasswordBearer

#### Functions

`__call__` async

```
__call__(request: Request) -> Optional[str]
```

#### Functions

`__init__`

```
__init__(auth: Auth = None)
```

route\_gettoken property

```
route_gettoken()
```

route\_logout property

```
route_logout()
```

route\_userinfo property

```
route_userinfo()
```

### router\_path

```
router_path() -> str
```

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