

# msaSDK Module

## `.utils.token`

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## Attributes

### oauth2\_scheme module-attribute

```
oauth2_scheme = OAuth2PasswordBearer(tokenUrl='login')
```

## Classes

## MSAToken

### Attributes

#### algorithm instance-attribute

```
algorithm: str = algorithm
```

#### credentials\_exception instance-attribute

```
credentials_exception = HTTPException(  
    status_code=status.HTTP_401_UNAUTHORIZED,  
    detail="Could not validate credentials",  
    headers={"WWW-Authenticate": "Bearer"},  
)
```

#### secret\_key instance-attribute

```
secret_key: str = secret_key
```

### Functions

#### `__init__`

```
__init__(secret_key: str, algorithm: str = 'HS256')
```

## MSAToken

PARAMETER	DESCRIPTION
<code>secret_key</code>	The secret key to produce a Token <b>TYPE:</b> <code>str</code>
<code>algorithm</code>	Algo to use, default <code>HS256</code> <b>TYPE:</b> <code>str</code> <b>DEFAULT:</b> <code>'HS256'</code>

## create\_token async

```
create_token(data: dict, expire_minutes: int = 100) -> str
```

### Create a Token

PARAMETER	DESCRIPTION
<code>data</code>	the data and content used to build the token <b>TYPE:</b> <code>dict</code>
<code>expire_minutes</code>	the time the token is valid, expires <b>TYPE:</b> <code>int</code> <b>DEFAULT:</b> <code>100</code>

RETURNS	DESCRIPTION
<code>encoded_jwt</code>	jwt encoded token <b>TYPE:</b> <code>str</code>

## get\_current\_user async

```
get_current_user(token: str = Depends(oauth2_scheme))
```

## verify\_token async

```
verify_token(token: str) -> MSATokenData
```

## Verify Token

PARAMETER	DESCRIPTION
<code>token</code>	the token as str <b>TYPE:</b> <code>str</code>

RAISES	DESCRIPTION
<code>JWTError</code>	credentials_exception

RETURNS	DESCRIPTION
<code>token_data</code>	the jwt decoded data <b>TYPE:</b> <code>MSATokenData</code>

## MSATokenData

Bases: `SQLModel`

TokenData schema

### Attributes

`id` class-attribute

```
id: Optional[str]
```

User ID

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