

# Kuha Class Management

v16

Generated by Doxygen 1.8.12



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# Chapter 1

## Namespace Index

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# Hierarchical Index

### 2.1 Class Hierarchy

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# Class Index

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## Chapter 4

# Namespace Documentation

### 4.1 attendance.admin Namespace Reference

#### Classes

- class [ClassAdmin](#)
- class [SessionAdmin](#)
- class [StudentAdmin](#)

#### 4.1.1 Detailed Description

Class-based Admin settings

```
Included:
* ClassAdmin
  * For administering individual classes
* StudentAdmin
  * For administering individual students
* SessionAdmin
  * For administering individual class sessions
```

### 4.2 class\_management.settings Namespace Reference

#### Variables

- **BASE\_DIR** = os.path.dirname(os.path.dirname(os.path.abspath(\_\_file\_\_)))
- **PROJECT\_ROOT** = os.path.dirname(os.path.abspath(\_\_file\_\_))
- string **SECRET\_KEY** = 'apple'
- bool **DEBUG** = True
- list **ALLOWED\_HOSTS** = ['\*']
- list **INSTALLED\_APPS**
- list **MIDDLEWARE**
- string **ROOT\_URLCONF** = 'class\_management.urls'
- list **TEMPLATES**
- tuple **TEMPLATE\_CONTEXT\_PROCESSORS**
- string **WSGI\_APPLICATION** = 'class\_management.wsgi.application'

- dictionary **DATABASES**
- list **AUTH\_PASSWORD\_VALIDATORS**
- string **LANGUAGE\_CODE** = 'en-us'
- string **TIME\_ZONE** = 'America/Chicago'
- bool **USE\_I18N** = True
- bool **USE\_L10N** = True
- bool **USE\_TZ** = True
- **db\_from\_env** = dj\_database\_url.config(conn\_max\_age=500)
- tuple **SECURE\_PROXY\_SSL\_HEADER** = ('HTTP\_X\_FORWARDED\_PROTO', 'https')
- **STATIC\_ROOT** = os.path.join(PROJECT\_ROOT, 'staticfiles')
- string **STATIC\_URL** = '/static/'
- tuple **STATICFILES\_DIRS**
- string **STATICFILES\_STORAGE** = 'whitenoise.django.GzipManifestStaticFilesStorage'

### 4.2.1 Detailed Description

Django settings for Attendance project.

Generated by 'django-admin startproject' using Django 1.10.

For more information on this file, see  
<https://docs.djangoproject.com/en/1.10/topics/settings/>

For the full list of settings and their values, see  
<https://docs.djangoproject.com/en/1.10/ref/settings/>

### 4.2.2 Variable Documentation

#### 4.2.2.1 AUTH\_PASSWORD\_VALIDATORS

list class\_management.settings.AUTH\_PASSWORD\_VALIDATORS

**Initial value:**

```

1 = [
2     {
3         'NAME': 'django.contrib.auth.password_validation.UserAttributeSimilarityValidator',
4     },
5     {
6         'NAME': 'django.contrib.auth.password_validation.MinimumLengthValidator',
7     },
8     {
9         'NAME': 'django.contrib.auth.password_validation.CommonPasswordValidator',
10    },
11    {
12        'NAME': 'django.contrib.auth.password_validation.NumericPasswordValidator',
13    },
14 ]

```

Definition at line 98 of file settings.py.

#### 4.2.2.2 DATABASES

dictionary class\_management.settings.DATABASES

**Initial value:**

```

1 = {
2     'default': {
3         'ENGINE': 'django.db.backends.sqlite3',
4         'NAME': os.path.join(BASE_DIR, 'db.sqlite3'),
5     }
6 }

```

Definition at line 87 of file settings.py.

#### 4.2.2.3 INSTALLED\_APPS

list class\_management.settings.INSTALLED\_APPS

**Initial value:**

```
1 = [  
2     'widget_tweaks',  
3     'attendance',  
4     'rest_framework',  
5     'rest_framework.authtoken',  
6     'django.contrib.admin',  
7     'django.contrib.auth',  
8     'django.contrib.contenttypes',  
9     'django.contrib.sessions',  
10    'django.contrib.messages',  
11    'django.contrib.staticfiles',  
12 ]
```

Definition at line 36 of file settings.py.

#### 4.2.2.4 MIDDLEWARE

list class\_management.settings.MIDDLEWARE

**Initial value:**

```
1 = [  
2     'django.middleware.security.SecurityMiddleware',  
3     'django.contrib.sessions.middleware.SessionMiddleware',  
4     'django.middleware.common.CommonMiddleware',  
5     'django.middleware.csrf.CsrfViewMiddleware',  
6     'django.contrib.auth.middleware.AuthenticationMiddleware',  
7     'django.contrib.messages.middleware.MessageMiddleware',  
8     'django.middleware.clickjacking.XFrameOptionsMiddleware',  
9 ]
```

Definition at line 49 of file settings.py.

#### 4.2.2.5 STATICFILES\_DIRS

tuple class\_management.settings.STATICFILES\_DIRS

**Initial value:**

```
1 = (  
2     os.path.join(PROJECT_ROOT, 'static'),  
3 )
```

Definition at line 141 of file settings.py.

#### 4.2.2.6 TEMPLATE\_CONTEXT\_PROCESSORS

tuple class\_management.settings.TEMPLATE\_CONTEXT\_PROCESSORS

**Initial value:**

```
1 = (  
2     'django.template.context_processors.request',  
3 )
```

Definition at line 77 of file settings.py.

#### 4.2.2.7 TEMPLATES

```
list class_management.settings.TEMPLATES
```

**Initial value:**

```

1 = [
2     {
3         'BACKEND': 'django.template.backends.django.DjangoTemplates',
4         'DIRS': [],
5         'APP_DIRS': True,
6         'OPTIONS': {
7             'context_processors': [
8                 'django.template.context_processors.debug',
9                 'django.template.context_processors.request',
10                'django.contrib.auth.context_processors.auth',
11                'django.contrib.messages.context_processors.messages',
12            ],
13        },
14    },
15 ]

```

Definition at line 61 of file settings.py.

### 4.3 class\_management.urls Namespace Reference

#### Variables

- `list urlpatterns`

#### 4.3.1 Detailed Description

URL Patterns for root

Included are:

- \* / -redirects to attendance/
- \* attendance/ - Currently just attendance sign-in sheet
- \* admin/ - Site admin page (requires login)
- \* api-token-path/ - Get auth token (requires proper credential headers)

#### 4.3.2 Variable Documentation

##### 4.3.2.1 urlpatterns

```
list class_management.urls.urlpatterns
```

**Initial value:**

```

1 = [
2     url(r'^$', lambda r: HttpResponseRedirect('attendance/')),
3     url(r'^attendance/', include('attendance.urls', namespace='attendance')),
4     url(r'^admin/', admin.site.urls),
5 ]

```

Definition at line 15 of file urls.py.



## 4.4 class\_management.wsgi Namespace Reference

### Variables

- **application** = get\_wsgi\_application()

### 4.4.1 Detailed Description

WSGI config for Attendance project.

It exposes the WSGI callable as a module-level variable named `application`.

For more information on this file, see  
<https://docs.djangoproject.com/en/1.10/howto/deployment/wsgi/>



## Chapter 5

# Class Documentation

### 5.1 attendance.forms.ChooseClassForm Class Reference

Inheritance diagram for attendance.forms.ChooseClassForm:

Collaboration diagram for attendance.forms.ChooseClassForm:

#### Static Public Attributes

- **classes** = forms.ModelChoiceField(label='Class', queryset=Class.objects.all().order\_by('name'))

#### 5.1.1 Detailed Description

Definition at line 10 of file forms.py.

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

- attendance/forms.py

### 5.2 attendance.models.Class Class Reference

Inheritance diagram for attendance.models.Class:

Collaboration diagram for attendance.models.Class:

#### Classes

- class [Meta](#)

#### Public Member Functions

- def **\_\_str\_\_** (self)

## Static Public Attributes

- int **SPRING** = 0
- int **FALL** = 1
- tuple **SEMESTERS**
- **semester** = models.SmallIntegerField(choices=SEMESTERS)
- **year** = models.IntegerField()
- **class\_id** = models.CharField(max\_length=12)
- **name** = models.CharField(max\_length=30)

### 5.2.1 Detailed Description

Models a class with a list of students

Definition at line 10 of file models.py.

### 5.2.2 Member Data Documentation

#### 5.2.2.1 SEMESTERS

```
tuple attendance.models.Class.SEMESTERS [static]
```

**Initial value:**

```
= (
    (SPRING, 'Spring'),
    (FALL, 'Fall')
)
```

Definition at line 17 of file models.py.

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

- attendance/models.py

## 5.3 attendance.admin.ClassAdmin Class Reference

Inheritance diagram for attendance.admin.ClassAdmin:

## 5.4 attendance.views.ClassIndexView Class Reference

Inheritance diagram for attendance.views.ClassIndexView:

Collaboration diagram for attendance.views.ClassIndexView:

## Public Member Functions

- def **get\_queryset** (self)

## Static Public Attributes

- string **template\_name** = 'attendance/class\_index.html'
- string **context\_object\_name** = 'class\_index'

### 5.4.1 Detailed Description

Root View for classes

Definition at line 38 of file views.py.

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

- attendance/views.py

## 5.5 attendance.views.ClassList Class Reference

Inheritance diagram for attendance.views.ClassList:

Collaboration diagram for attendance.views.ClassList:

## Static Public Attributes

- tuple **authentication\_classes** = (TokenAuthentication,)
- tuple **permission\_classes** = (permissions.IsAuthenticated,)
- **queryset** = Class.objects.all()
- **serializer\_class** = [ClassSerializer](#)

### 5.5.1 Detailed Description

List all Classes

Definition at line 213 of file views.py.

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

- attendance/views.py

## 5.6 attendance.serializers.ClassSerializer Class Reference

Inheritance diagram for attendance.serializers.ClassSerializer:

Collaboration diagram for attendance.serializers.ClassSerializer:

### Classes

- class [Meta](#)

### 5.6.1 Detailed Description

Definition at line 14 of file serializers.py.

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

- attendance/serializers.py

## 5.7 attendance.views.ClassView Class Reference

Inheritance diagram for attendance.views.ClassView:

Collaboration diagram for attendance.views.ClassView:

### Public Member Functions

- def **form\_valid** (self, form)

### Static Public Attributes

- string **template\_name** = 'attendance/class.html'
- **form\_class** = [ChooseClassForm](#)
- string **success\_url** = '/attendance/signin/'

### 5.7.1 Detailed Description

Definition at line 23 of file views.py.

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

- attendance/views.py

## 5.8 attendance.views.CurrentUser Class Reference

Inheritance diagram for attendance.views.CurrentUser:

Collaboration diagram for attendance.views.CurrentUser:

### Public Member Functions

- def **get** (self, request)

### Static Public Attributes

- tuple **authentication\_classes** = (TokenAuthentication,)
- tuple **permission\_classes** = (permissions.IsAuthenticated,)

#### 5.8.1 Detailed Description

Definition at line 223 of file views.py.

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

- attendance/views.py

## 5.9 attendance.serializers.ClassSerializer.Meta Class Reference

### Static Public Attributes

- **model** = [Class](#)
- tuple **fields** = ('id', 'class\_id', 'name', 'year', 'semester',)

#### 5.9.1 Detailed Description

Definition at line 15 of file serializers.py.

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

- attendance/serializers.py

## 5.10 attendance.serializers.SessionSerializer.Meta Class Reference

### Static Public Attributes

- **model** = [Session](#)
- tuple **fields** = ('id', 'date', 'password', 'session\_class', 'students\_present', 'is\_open')

### 5.10.1 Detailed Description

Definition at line 27 of file serializers.py.

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

- attendance/serializers.py

## 5.11 attendance.models.Class.Meta Class Reference

### Static Public Attributes

- string **verbose\_name\_plural** = "Classes"

### 5.11.1 Detailed Description

Definition at line 27 of file models.py.

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

- attendance/models.py

## 5.12 attendance.serializers.UserSerializer.Meta Class Reference

### Static Public Attributes

- **model** = User
- tuple **fields** = ('id', 'username', 'first\_name')

### 5.12.1 Detailed Description

Definition at line 33 of file serializers.py.

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

- attendance/serializers.py

## 5.13 attendance.serializers.StudentSerializer.Meta Class Reference

### Static Public Attributes

- **model** = [Student](#)
- tuple **fields** = ('id', 'last\_name', 'first\_name', 'student\_id', 'enrolled\_class')



### 5.13.1 Detailed Description

Definition at line 21 of file serializers.py.

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

- attendance/serializers.py

## 5.14 attendance.serializers.TokenSerializer.Meta Class Reference

### Static Public Attributes

- **model** = Token
- tuple **fields** = ('key',)

### 5.14.1 Detailed Description

Definition at line 9 of file serializers.py.

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

- attendance/serializers.py

## 5.15 attendance.migrations.0003\_auto\_20160922\_1447.Migration Class Reference

Inheritance diagram for attendance.migrations.0003\_auto\_20160922\_1447.Migration:

Collaboration diagram for attendance.migrations.0003\_auto\_20160922\_1447.Migration:

### Static Public Attributes

- list **dependencies**
- list **operations**

### 5.15.1 Detailed Description

Definition at line 8 of file 0003\_auto\_20160922\_1447.py.

## 5.15.2 Member Data Documentation

### 5.15.2.1 dependencies

```
list attendance.migrations.0003_auto_20160922_1447.Migration.dependencies [static]
```

**Initial value:**

```
= [
    ('attendance', '0002_auto_20160902_1307'),
]
```

Definition at line 10 of file 0003\_auto\_20160922\_1447.py.

### 5.15.2.2 operations

```
list attendance.migrations.0003_auto_20160922_1447.Migration.operations [static]
```

**Initial value:**

```
= [
    migrations.AlterModelOptions(
        name='class',
        options={'verbose_name_plural': 'Classes'},
    ),
]
```

Definition at line 14 of file 0003\_auto\_20160922\_1447.py.

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

- attendance/migrations/0003\_auto\_20160922\_1447.py

## 5.16 attendance.migrations.0002\_auto\_20160902\_1307.Migration Class Reference

Inheritance diagram for attendance.migrations.0002\_auto\_20160902\_1307.Migration:

Collaboration diagram for attendance.migrations.0002\_auto\_20160902\_1307.Migration:

### Static Public Attributes

- list **dependencies**
- list **operations**

### 5.16.1 Detailed Description

Definition at line 9 of file 0002\_auto\_20160902\_1307.py.

## 5.16.2 Member Data Documentation

### 5.16.2.1 dependencies

```
list attendance.migrations.0002_auto_20160902_1307.Migration.dependencies [static]
```

**Initial value:**

```
= [
    ('attendance', '0001_initial'),
]
```

Definition at line 11 of file 0002\_auto\_20160902\_1307.py.

### 5.16.2.2 operations

```
list attendance.migrations.0002_auto_20160902_1307.Migration.operations [static]
```

**Initial value:**

```
= [
    migrations.AddField(
        model_name='session',
        name='is_open',
        field=models.BooleanField(default=False),
    ),
    migrations.AlterField(
        model_name='session',
        name='date',
        field=models.DateField(default=datetime.date.today),
    ),
    migrations.AlterField(
        model_name='session',
        name='students_present',
        field=models.ManyToManyField(blank=True, to='attendance.Student'),
    ),
]
```

Definition at line 15 of file 0002\_auto\_20160902\_1307.py.

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

- attendance/migrations/0002\_auto\_20160902\_1307.py

## 5.17 attendance.migrations.0001\_initial.Migration Class Reference

Inheritance diagram for attendance.migrations.0001\_initial.Migration:

Collaboration diagram for attendance.migrations.0001\_initial.Migration:

### Static Public Attributes

- bool **initial** = True
- list **dependencies**
- list **operations**

### 5.17.1 Detailed Description

Definition at line 9 of file 0001\_initial.py.

### 5.17.2 Member Data Documentation

#### 5.17.2.1 dependencies

```
list attendance.migrations.0001_initial.Migration.dependencies [static]
```

**Initial value:**

```
= [
]
```

Definition at line 13 of file 0001\_initial.py.

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

- attendance/migrations/0001\_initial.py

## 5.18 attendance.models.Session Class Reference

Inheritance diagram for attendance.models.Session:

Collaboration diagram for attendance.models.Session:

### Public Member Functions

- def **\_\_str\_\_** (self)

### Static Public Attributes

- **date** = models.DateField(default=datetime.date.today)
- **password** = models.CharField(max\_length=16)
- **session\_class** = models.ForeignKey([Class](#))
- **students\_present** = models.ManyToManyField([Student](#), blank=True)
- **is\_open** = models.BooleanField(default=False)

### 5.18.1 Detailed Description

One of these for each day of the term

Definition at line 47 of file models.py.

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

- attendance/models.py

## 5.19 attendance.admin.SessionAdmin Class Reference

Inheritance diagram for attendance.admin.SessionAdmin:

Collaboration diagram for attendance.admin.SessionAdmin:

### Static Public Attributes

- tuple **list\_display** = ('date', 'session\_class', 'is\_open',)
- tuple **list\_editable** = ('is\_open',)
- list **list\_filter** = ['session\_class']
- tuple **ordering** = ('-date',)

### 5.19.1 Detailed Description

SessionAdmin - Sets up admin page for Sessions

Basic Info:

```
* Displayed in list: date, session_class, is_open
* Editable in list: is_open
* Filterable: session_class
* Ordered by: date
```

Definition at line 47 of file admin.py.

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

- attendance/admin.py

## 5.20 attendance.views.SessionDetail Class Reference

Inheritance diagram for attendance.views.SessionDetail:

Collaboration diagram for attendance.views.SessionDetail:

### Static Public Attributes

- tuple **authentication\_classes** = (TokenAuthentication,)
- tuple **permission\_classes** = (permissions.IsAuthenticated,)
- **serializer\_class** = [SessionSerializer](#)
- **queryset** = Session.objects.all()

### 5.20.1 Detailed Description

Retrieve, update, or delete a Session

Definition at line 203 of file views.py.

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

- attendance/views.py

## 5.21 attendance.views.SessionList Class Reference

Inheritance diagram for attendance.views.SessionList:

Collaboration diagram for attendance.views.SessionList:

### Public Member Functions

- def **get\_queryset** (self)

### Static Public Attributes

- **model** = [Session](#)
- tuple **authentication\_classes** = (TokenAuthentication,)
- tuple **permission\_classes** = (permissions.IsAuthenticated,)
- **serializer\_class** = [SessionSerializer](#)
- tuple **ordering\_fields** = ('date',)
- tuple **ordering** = ('date',)

### 5.21.1 Detailed Description

List all Sessions

Definition at line 186 of file views.py.

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

- attendance/views.py

## 5.22 attendance.serializers.SessionSerializer Class Reference

Inheritance diagram for attendance.serializers.SessionSerializer:

Collaboration diagram for attendance.serializers.SessionSerializer:

### Classes

- class [Meta](#)

### 5.22.1 Detailed Description

Definition at line 26 of file serializers.py.

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

- attendance/serializers.py

## 5.23 attendance.forms.SignInForm Class Reference

Inheritance diagram for attendance.forms.SignInForm:

Collaboration diagram for attendance.forms.SignInForm:

### Static Public Attributes

- **student\_id** = forms.CharField(label='Student ID', max\_length=6)
- **today\_password** = forms.CharField(label="Today's Password", max\_length=20, widget=forms.PasswordInput)

### 5.23.1 Detailed Description

Definition at line 5 of file forms.py.

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

- attendance/forms.py

## 5.24 attendance.apps.SigninsheetConfig Class Reference

Inheritance diagram for attendance.apps.SigninsheetConfig:

Collaboration diagram for attendance.apps.SigninsheetConfig:

### Static Public Attributes

- string **name** = 'attendance'

### 5.24.1 Detailed Description

Definition at line 4 of file apps.py.

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

- attendance/apps.py

## 5.25 attendance.views.SignInView Class Reference

Inheritance diagram for attendance.views.SignInView:

Collaboration diagram for attendance.views.SignInView:

### Static Public Attributes

- string **template\_name** = 'attendance/signin.html'
- **form\_class** = [SignInForm](#)

#### 5.25.1 Detailed Description

Definition at line 33 of file views.py.

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

- attendance/views.py

### 5.26 attendance.models.Student Class Reference

Inheritance diagram for attendance.models.Student:

Collaboration diagram for attendance.models.Student:

### Public Member Functions

- def **\_\_str\_\_** (self)

### Static Public Attributes

- **first\_name** = models.CharField(max\_length=30)
- **last\_name** = models.CharField(max\_length=30)
- **student\_id** = models.CharField(max\_length=6)
- **enrolled\_class** = models.ForeignKey([Class](#))

#### 5.26.1 Detailed Description

Each student must sign in as a 'user' sort of each day

Definition at line 34 of file models.py.

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

- attendance/models.py

### 5.27 attendance.admin.StudentAdmin Class Reference

Inheritance diagram for attendance.admin.StudentAdmin:

Collaboration diagram for attendance.admin.StudentAdmin:



## Static Public Attributes

- tuple **list\_display** = ('last\_name', 'first\_name', 'enrolled\_class', 'student\_id')
- list **list\_filter** = ['enrolled\_class', ]

### 5.27.1 Detailed Description

StudentAdmin - Sets up admin page for Students

Basic Info:

\* Displayed in list are last\_name, first\_name, enrolled\_class, and student\_id  
 \* Can filter by enrolled\_class

Definition at line 36 of file admin.py.

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

- attendance/admin.py

## 5.28 attendance.views.StudentList Class Reference

Inheritance diagram for attendance.views.StudentList:

Collaboration diagram for attendance.views.StudentList:

## Public Member Functions

- def **get\_queryset** (self)

## Static Public Attributes

- **model** = [Student](#)
- tuple **authentication\_classes** = (TokenAuthentication,)
- tuple **permission\_classes** = (permissions.IsAuthenticated,)
- **queryset** = Student.objects.all()
- **serializer\_class** = [StudentSerializer](#)
- tuple **ordering\_fields** = ('last\_name',)
- tuple **ordering** = ('last\_name',)

### 5.28.1 Detailed Description

List all Students

Definition at line 168 of file views.py.

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

- attendance/views.py

## 5.29 attendance.serializers.StudentSerializer Class Reference

Inheritance diagram for attendance.serializers.StudentSerializer:

Collaboration diagram for attendance.serializers.StudentSerializer:

### Classes

- class [Meta](#)

### 5.29.1 Detailed Description

Definition at line 20 of file serializers.py.

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

- attendance/serializers.py

## 5.30 attendance.views.TabulateView Class Reference

Inheritance diagram for attendance.views.TabulateView:

Collaboration diagram for attendance.views.TabulateView:

### Public Member Functions

- def **get\_context\_data** (self, kwargs)

### Static Public Attributes

- string **template\_name** = 'attendance/tabulate.html'
- string **context\_object\_name** = 'attendance\_data'
- **model** = [Class](#)

### 5.30.1 Detailed Description

Tabulates Attendance Data for easy copying. Next will be a rest interface to download it as a csv

Definition at line 52 of file views.py.

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

- attendance/views.py

## 5.31 attendance.serializers.TokenSerializer Class Reference

Inheritance diagram for attendance.serializers.TokenSerializer:

Collaboration diagram for attendance.serializers.TokenSerializer:

### Classes

- class [Meta](#)

#### 5.31.1 Detailed Description

Definition at line 8 of file serializers.py.

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

- attendance/serializers.py

## 5.32 attendance.serializers.UserSerializer Class Reference

Inheritance diagram for attendance.serializers.UserSerializer:

Collaboration diagram for attendance.serializers.UserSerializer:

### Classes

- class [Meta](#)

#### 5.32.1 Detailed Description

Definition at line 32 of file serializers.py.

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

- attendance/serializers.py



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