
CodeMarker Documentation

Release 1.0

Team Alpha

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Feel free to explore each component at your discretion. You can also search the docs using the input field in the sidebar.

Please note that the Django-generated files haven't been documented. Please refer to Django's documentation for their overview.

Contact Team Alpha in case of any issues:

- Konrad Dryja – k.dryja.15@aberdeen.ac.uk
- Stefan Rudvin – stefan.rudvin@hotmail.com
- Elzbieta Futkowska - e.futkowska.15@aberdeen.ac.uk
- Tautvydas Cerniauskas - tautvydas.cer@gmail.com

CHAPTER 1

models.py

Models information for all entities used in the system

@TeamAlpha 2018 CodeMarker models.py

```
class app.models.Assessment (id, name, description, additional_help, deadline, static_input,  
                             dynamic_input, num_of_static, languages, resource, course, in-  
                             put_generator, created_at, updated_at)  
    Bases: django.db.models.base.Model
```

```
class app.models.Course (id, name, description, created_at, updated_at, professor)  
    Bases: django.db.models.base.Model
```

```
class app.models.InputGenerator (id, filename, language, assessment, created_at, updated_at)  
    Bases: django.db.models.base.Model
```

```
class app.models.Resource (id, filename, status, language, assessment, created_at, updated_at)  
    Bases: django.db.models.base.Model
```

```
class app.models.Submission (id, filename, info, timeTaken, late, status, result, language, marks,  
                             user, assessment, created_at, updated_at)  
    Bases: django.db.models.base.Model
```


CHAPTER 2

views.py

CHAPTER 3

submission_processor.py

CHAPTER 4

factory.py

Module containing creators for subsequent elements, such as assessments or submissions. Adheres to ‘factory’ architectural pattern.

Factories to create new resources with lengthy methods.

@TeamAlpha 2018 CodeMarker factory.py

`app.factory.assessment_creator(self, serializer)`

Method responsible for creating new assessments

Raises: MultiValueDictKeyError – Raised when not enough arguments have been passed

Returns: HttpResponse – Whether resource has been successfully created or not

`app.factory.course_creator(self, serializer)`

Dummy method for course creation, for future reference

`app.factory.import_users(request)`

Given an uploaded CSV file containing list of users, import them into DB

Arguments: request - request containing the uploaded CSV file

Returns: request – Whether the import was successful or not

`app.factory.submission_creator(self, serializer)`

Method for creating new submissions

Arguments: serializer - passed from the views class, contains POST information

Returns: HttpResponse - whether creation was successful or not

CHAPTER 5

`docker_processor.py`

CHAPTER 6

serializers.py

Autogenerated module by Django used to serialize Data used by the application

@TeamAlpha 2018 CodeMarker serializers.py

CHAPTER 7

backup_service.py

Module containing methods for creating and restoring backups of the system

@TeamAlpha 2018 CodeMarker backup_service.py

`app.backup_service.create_backup()`

Create backup zip and store it in the backups/ folder

Returns: response – description whether backup was successful

`app.backup_service.restore_backup(request)`

Provided a backup file, restore the file system from it

Returns: request – whether backup was successful or not.

CHAPTER 8

test_assessments.py

CHAPTER 9

test_backup.py

CHAPTER 10

test_courses_users.py

CHAPTER 11

test_courses.py

CHAPTER 12

test_submissions.py

CHAPTER 13

test_users.py

CHAPTER 14

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