# OCD-E, Backend

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Worked on user login, registration, and directory structure.

# Tools and softwares used

- Django

- PostgreSQL

- pgAdmin4

## accounts

**Code**

| id | AutoField |
|----|-----------|
| CLI | BooleanField |
| CLI_args | TextField |
| code | TextField |
| language | CharField |
| stdin | TextField |

**Submission**

| id | AutoField |
|----|-----------|
| folder | ForeignKey (id) |
| CLI | BooleanField |
| CLI_args | TextField |
| code | TextField |
| date_added | DateTimeField |
| file_name | CharField |
| stdin | TextField |

**Folder**

| id | AutoField |
|----|-----------|
| owner | ForeignKey (id) |
| date_added | DateTimeField |
| language | CharField |
| text | CharField |

folder (submission)

## django.contrib.sessions

**Session**
**<AbstractBaseSession>**

| session_key | CharField |
|-------------|-----------|
| expire_date | DateTimeField |
| session_data | TextField |

abstract inheritance

**AbstractBaseSession**

| expire_date | DateTimeField |
|-------------|--------------|
| session_data | TextField |

## django.contrib.admin

**LogEntry**

| id | AutoField |
|----|-----------|
| content_type | ForeignKey (id) |
| user | ForeignKey (id) |
| action_flag | PositiveSmallIntegerField |
| action_time | DateTimeField |
| change_message | TextField |
| object_id | TextField |
| object_repr | CharField |

user (logentry)

owner (folder)

## django.contrib.auth

**User**
**<AbstractUser>**

| id | AutoField |
|----|-----------|
| date_joined | DateTimeField |
| email | EmailField |
| first_name | CharField |
| is_active | BooleanField |
| is_staff | BooleanField |
| is_superuser | BooleanField |
| last_login | DateTimeField |
| last_name | CharField |
| password | CharField |
| username | CharField |

abstract inheritance

groups (user)

user_permissions (user)

**AbstractUser**
**<AbstractBaseUser,PermissionsMixin>**

| date_joined | DateTimeField |
|-------------|---------------|
| email | EmailField |
| first_name | CharField |
| is_active | BooleanField |
| is_staff | BooleanField |
| is_superuser | BooleanField |
| last_login | DateTimeField |
| last_name | CharField |
| password | CharField |
| username | CharField |

**Group**

| id | AutoField |
|----|-----------|
| name | CharField |

abstract inheritance

abstract inheritance

permissions (group)

**AbstractBaseUser**

**PermissionsMixin**

**Permission**

| id | AutoField |
|----|-----------|
| content_type | ForeignKey (id) |
| codename | CharField |
| name | CharField |

content_type (logentry)

content_type (permission)

## django.contrib.contenttypes

**ContentType**

| id | AutoField |
|----|-----------|
| app_label | CharField |
| model | CharField |