Django Project Commands

1. Create a Django Project

Command:
bash
CopyEdit

```
django-admin startproject projectname
```

-
- **Description**: Creates a new Django project named `projectname`.

2. Create a Django App

Command:
bash
CopyEdit

```
python manage.py startapp appname
```

-
- **Description**: Creates a new app named `appname` inside your Django project.

Django Server Commands

3. Run the Development Server

Command:
bash
CopyEdit

```
python manage.py runserver
```

-
- **Description**: Starts the Django development server at `http://127.0.0.1:8000/`.

4. Run the Development Server on a Specific Port

Command:
bash
CopyEdit

```
python manage.py runserver 8080
```

-
- **Description**: Starts the Django development server at `http://127.0.0.1:8080/`.

Django Migration Commands

5. Create Migrations

Command:
bash
CopyEdit

```
python manage.py makemigrations
```

-
- **Description**: Creates new migrations based on changes made to your models.

6. Apply Migrations

Command:
bash
CopyEdit

```
python manage.py migrate
```

-
- **Description**: Applies migrations to update the database schema.

Django Admin Commands

7. Create Superuser (Admin)

Command:
bash
CopyEdit

```
python manage.py createsuperuser
```

-
- **Description**: Creates a superuser to access Django's admin panel.

8. Access Django Admin Panel

- **URL**: `http://127.0.0.1:8000/admin/`
- **Description**: Login to Django's admin panel with the superuser credentials.

Django Miscellaneous Commands

9. Show Database Migrations

Command:
bash
CopyEdit

```
python manage.py sqlmigrate appname migrationname
```

-
- **Description**: Displays the SQL code for a specific migration.

10. Check for Errors

Command:
bash
CopyEdit

```
python manage.py check
```

-
- **Description**: Checks for any issues or errors in the Django project setup.

11. Collect Static Files for Deployment

Command:
bash
CopyEdit

```
python manage.py collectstatic
```

-
- **Description**: Collects all static files into the `STATIC_ROOT` directory, ready for deployment.

12. Test Your Django Application

Command:
bash
CopyEdit

```
python manage.py test
```

-
- **Description**: Runs all tests in your Django project.

Django Database Commands

13. Inspect Database Schema

Command:
bash

CopyEdit

```
python manage.py inspectdb
```

-
- **Description**: Generates Django models from an existing database.

14. Create and Apply Migrations for Database Models

Command:
bash
CopyEdit

```
python manage.py migrate appname
```

-
- **Description**: Migrate a specific app's models to the database.

Django Secret Key Generator

15. Generate a New Django Secret Key

Command:
bash
CopyEdit

```
python -c 'from django.core.management.utils import
get_random_secret_key; print(get_random_secret_key())'
```

-
- **Description**: Generates a new Django secret key for your settings.

Django Shell Command

16. Open Django Shell

Command:
bash
CopyEdit

```
python manage.py shell
```

-
- **Description**: Opens Django's interactive Python shell for direct access to models and queries.

Django Deployment Commands

17. Start Gunicorn Server for Production Deployment

Command:
bash
CopyEdit

```
gunicorn projectname.wsgi:application
```

-
- **Description**: Starts the Gunicorn WSGI server for deploying Django applications in production.

Django Custom Commands

18. Create Custom Django Management Commands

- Description:
  - Create a `management/commands` directory inside your app.
  - Add your custom command file (e.g., `mycommand.py`).
  - Define the `Command` class in the file to implement your functionality.

Django Other Helpful Commands

19. See All Available Django Commands

Command:
bash
CopyEdit

```
python manage.py help
```

-
- **Description**: Lists all available Django management commands.

You can save these commands in a `.txt` file or `.md` file, such as `django_commands.txt` or `django_commands.md`.