**Project Assignment   
for** [**Django Web Development @ Software University**](https://softuni.bg/trainings/1932/django-web-development-september-2018)

You have to choose between 2 options. You can create either Django REST project or Django (template). When you choose one of the two options, feel free not to read the description part for the other option and skip to “Project Public Defense” and “Assessment Criteria” parts of this document.

**Option 1: Template project (Django project)**

**Mandatory requirements/Must haves**

Your project **must** have all this functionality to pass the final examination.

* **The project must have login/register functionality**
* **Must have public part (A part of the website, which is accessible by everyone – un/authenticated users and admins)**
* **Must have private** part (accessible only by authenticated user and admins)
* **Admin** part (accessible only to admins)
* **Unauthenticated users (public part) have only ‘get’ permissions (for Example – could see** **а landing page and for example all animals/furniture or whatever products you will have)**
* **Authenticated users (private part) – have full CRUD for all of their created content**
* **Admin part – Admin/s has/ve full CRUD for all products/content, created by users on the website**
* **Forms (for register/login)**
* **Templates (your contrlollers/views must return HTML files) – one and the same template could be re-used/used multiple times (with the according adjustments, if such needed)**

**Optional/Bonuses**

* **Custom css or bootstrap**
* **Form validation**
* **Testing** (unit testing)
* **Class-based views**
* Extended **Django user**
* Documentation/ Swagger
* Github/Gitlab – at least 3 commits and at least 3 days of history + README
* Additional functionality, not explicitly described in this section, will be counted as a bonus if it has practical usage.

**Option 2: REST project (Django REST project)**

**Mandatory requirements**

Your project **must** have all this functionality to pass the final examination.

* **The project must have login/register functionality**
* **Must have public part (A part of the website, which is accessible to everyone – un/authenticated users, admins)**
* **Must have private** part (accessible only to authenticated user and to admins)
* **Admin** part (accessible only to admins)
* **Unauthenticated users (public part) have only ‘get’ permissions (for Example – could see landing page and for example all annimals/furnitures or whatever products you will have)**
* **Authenticated users (private part) – have full CRUD for all of their created content + PATCH**
* **Admin part – Admin/s has/ve full CRUD for all products on the website + PATCH**
* **Reusable serializers of the model – one model many serializers**
* **Nested serializares**
* **Usage of APIViews**
* **Class-based views**
* **Different relationships (Many-to-many, one-to-many, many-to-one) presented**

**Bonuses**

* **Testing** (unit testing)
* Extended **Django user**
* Anything that is **not described** in the assignment **is a bonus** if it has some practical use.
* Documentation/ Swagger
* Github/Gitlab – at least 3 commits and at least 3 days of history + README

**Project Public Defense**

Each student will have to deliver a **public defense** of its work in front of the trainer/s. Students will have **15 minutes**, which must be allocated as follows

* **First 5 minutes: Application overview and demonstration on**  how it works
* Following 10 minutes: readiness to answer questions.

Please be **strict in timing**! On the 5th minute, your presentation ends. The remaining time will be for Question/Answers session

You have to bring your own laptop, where the project is available. Open the project assets beforehand to save time.

Be **well prepared** for presenting the maximum of your work within the time given. It is highly recommended that you practice the presentation at home with a chronomer, to be sure that you will fit in the time provided.

**Assessment Criteria**

* All **mandatory/must have-s** requirements **must be met**. A project that **does not meet them will not pass the examination**
* Mandatory requirements give you 5.00 for the final grade
* To get 6.00, you need to **work harder** and provide some **extra functionality** to the project (at least one of the bonuses and answering all the questions raised.Your ability to **answers** to the **questions** validates that you have the **knowledge required** to pass the examination. Considering how you have answered the questions and how much bonus bullets you have done the final grade can scale.
* Present briefly the project and explain the code

Types of users:

1. Admin: whenever logged in with his/her super-user profile has CRUD credential over the whole site/app content (including products database and content, created by other users).
2. Users:
   1. Non-registered: may only see the public part of the site/app: e.g. landing page, products available
   2. Registered: users which have used the register form to create an account for the site/app.

The registered users, whenever:

* + - Logged-in: have access to the public and the private parts of the site/app, may Create/Read/Update/Delete (CRUD) their own content.
    - Not logged in: just like non-registered users, they can only see the public part of the site/app: e.g. landing page, products available