Individual Project Assignment for the

Symfony 3 course @ SoftUni

Design and implement Products bundle. Your project must meet all the requirements listed below.

Requirements

- Use **fresh** installed **Symfony 3.2**
- **Use version control system**
  - o Use GitHub or other source control system as project collaboration platform and commit your daily work

Project

Required functionalities:

Products bundle with the following functionalities:

- (required) The SoftUni namespace must be used for the module's name.
- **Product** entity:
  - ◦ (required, 5pts) **Models + DB tables** with fields: id, slug, title, subtitle, descritpion, image(optional), price, rank, created_at, updated_at
  - ◦ (required, 5pts) **CRUD** operations with url prefix "admin/product".
  - ◦ (5pts)Images have to be uploaded in web/uploads/product directory
- **ProductCategory** entity:
  - ◦ (required, 5pts) **Models + DB tables** with fields: slug, title, description, image(optional), rank, parent(optional), children(optional), created_at, updated_at
  - ◦ (5pts)Parent and children have to be implemented by creating a self referencing relationship
  - ◦ (8pts) **CRUD** operations with url prefix "admin/product-category".
  - ◦ (5pts)Images have to be uploaded in web/uploads/product-category directory
- Many to many relation between **Product** and **ProductCategory** entities
- Create two services **ProductManager** and **ProductCategoryManager**
  - ◦ (required, 3pts)In both services inject EntityManager and Service Container and referencing Class (e.g Product, ProductCategory)
  - ◦ (required, 5pts)ProductManager have to implement methods: **getClass**, **getEntityManager**, **createProduct**, **removeProduct**, **findProductBy** which have to use criteria for selecting products and repository. You can add as many other methods as you want
  - ◦ (required, 5pts)ProductCategoryManager have to implement methods: **getClass**, **getEntityManager**, **createCategory**, **removeCategory**, **findCategoryBy** which have to use criteria for selecting products and repository, **addProduct**, You can add as many other methods as you want.

- (5pts)Create service for sending emails to notify list of predefined email addresses for new products in application.

- (15pts) Create actions for listing already created categories /category/list with image and title ordered by rank.

  - If category has children, title and image should to be links to listing with children of this cateogry otherwise title and image should to be links to listing containing products which are related to this category(product/list).

  - Produtcs listing (product/list) should have image and titile of product and shoud be link to product/{id}/view ordered by rank. Here we show category title and description above listing of products.

- (9pts) Create product view actoion product/{id}/view. Show title, subtitle, slug, price, description and image fields.

Information & Tips

- All bulltes marked as required are required to gain points for this Project Assignment.

- Self referencing: http://docs.doctrine-project.org/projects/doctrine-orm/en/latest/reference/association-mapping.html#one-to-many-self-referencing

- File uploads: http://symfony.com/doc/2.0/cookbook/doctrine/file_uploads.html

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