ASSIGMENT 2 - REST & ECOMMERCE SYSTEM & VP TOOL

25/02 (CLC) 27/02 (CQ): Version 1 (discussion)

04/03 (CLC) 06/03 (CQ): Version 2 (mark)

USING VP FOR DESIGNING E-COMMERCE SYSTEM WITH THE MICROSERVICE MODEL

- REST
- E-COMMERCE
- VP TOOL

1 **(8 pages)** REST (write 8 pages with 3 examples): what is REST? Why do we need to use REST? Steps for building REST in Django? What is serialize? Why we need it?...Using VP for representing REST **Guide to design API**

https://www.visual-paradigm.com/support/documents/vpuserguide/276/3420_generatingre.html https://www.visual-paradigm.com/tutorials/rest-api-example-registration-service.jsp

Guide to code

https://www.django-rest-framework.org/tutorial/quickstart/

https://blog.logrocket.com/django-rest-framework-create-api/

https://medium.com/@ahmalopers703/getting-started-with-django-rest-api-for-beginners-9c121a2ce0d3

https://www.geeksforgeeks.org/how-to-create-a-basic-api-using-django-rest-framework/https://www.moesif.com/blog/technical/api-development/Django-REST-API-Tutorial/

- 2 **(17 pages)** Design an e-commerce system in Django completely with modules/services: customer, cart, order, shipping, paying, items such as book, mobile, clothes, shoes...
 - Customer owns 4 types with the corresponding functionality
 - Each modules owns at least 7 functionalities
 - Customer is designed with mySQL
 - Items book, mobile, clothes, shoes...are designed with MongoDB
 - cart, order, shipping, paying are designed with PostgreSQL
 - a. Draw use case diagrams in VP for describing functions of each module
 - b. Draw class diagrams in design for each module. Class includes attributes and methods and relationships
 - c. Show connections in REST we need to build and use VP tool to interpret
 - d. Code the modules of the system