





Web Applications A.Y. 2021-2022 Homework 1 – Server-side Design and Development

Master Degree in Computer Engineering Master Degree in Cybersecurity Master Degree in ICT for Internet and Multimedia

Deadline: 22 April, 2022

Group WAD-Team	Electromechanics shop A web application to manage a store	
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Czaczkes	Gil	2062036
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1 Objectives

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2 Main Functionalities

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3 Data Logic Layer

3.1 Entity-Relationship Schema

We decided to start our project starting from the database designed by the e-team group during the FTB course. We report in the following figures the design from we started. In particular in figure ?? we reported the ER schema and in figure ?? the corresponding relational schema.

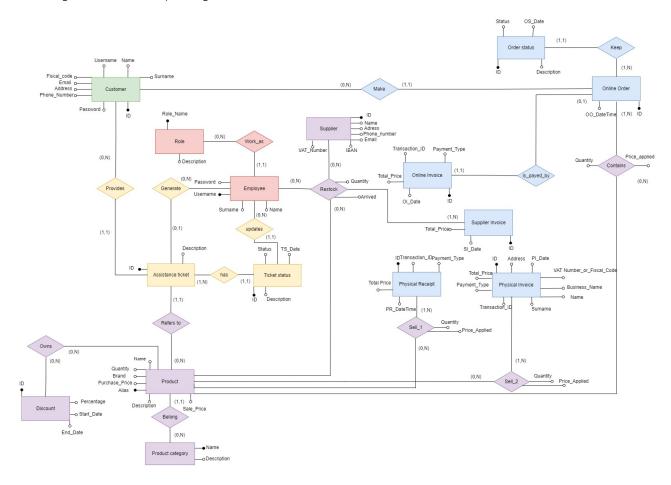


Figure 1: ER schema designed by e-team

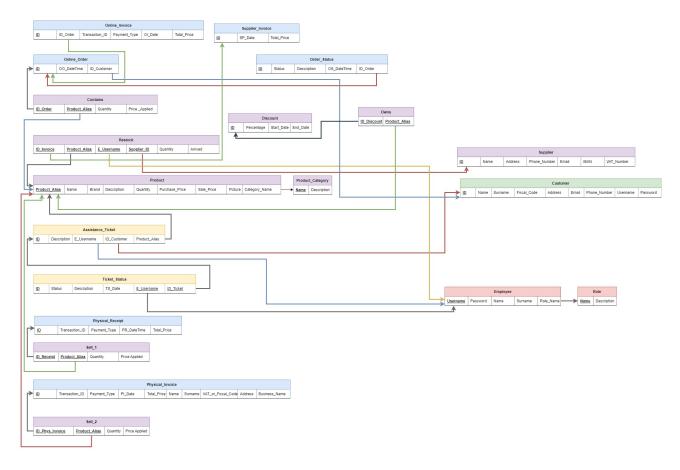


Figure 2: Relational schema designed by e-team

In order to mantain the project manageable, we decided to remove some parts. In particular we decided to remove all the "offline services" and we decided to built our web application only to manage the online store. Another part we removed is the management of the supplier, dedicating the development of our project only to the services seen by the client of the shop (excluding the management of the employes that is need in our webapp in order to setting up the permission.). In figure ?? and ?? are reported the final version of the design for the data layer(ER schema and relational schema respectively).

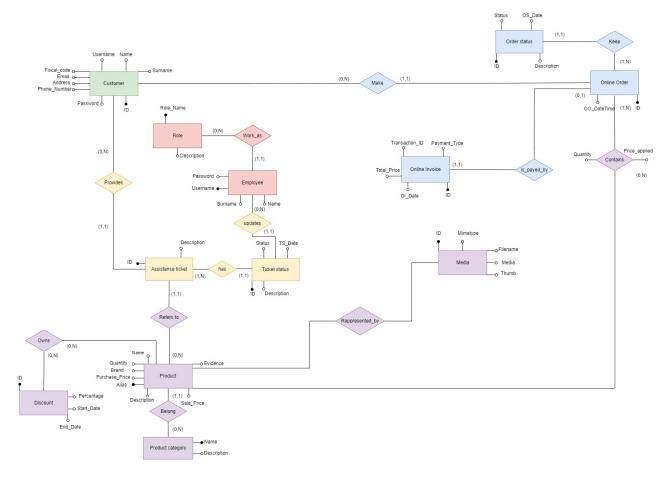


Figure 3: ER schema designed by e-team

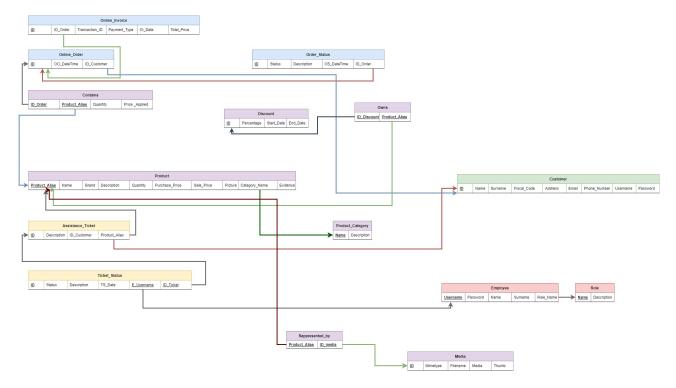


Figure 4: Relational schema designed by e-team

3.2 Other Information

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4 Presentation Logic Layer

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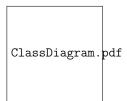
4.1 A page



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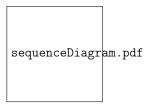
5 Business Logic Layer

5.1 Class Diagram



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5.2 Sequence Diagram



5.3 REST API Summary

URI	Method	Description	Filter
What is the URI?	What	Describe briefly the result of calling the	is it behind
	HTTP	URI	a filter?
	method		
	uses?		

Table 2: Describe in this table your REST API

5.4 REST Error Codes

Error Code	HTTP Status Code	Description
Error Code Iden-	Corresponding HTTP	Description of the error
tifier	Status Code	

Table 3: Describe in this table your REST API

5.5 REST API Details

A resource

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- URL: the URL to retrieve it
- Method: Method to retrieve it
- URL Parameters:
- Data Parameters:
- Success Response:
- Error Response:

6 Group Members Contribution

- Jane Doe Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.
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