

Introduction to Database Systems

E-commerce

Schema report

Team Number: #7

Team Members:

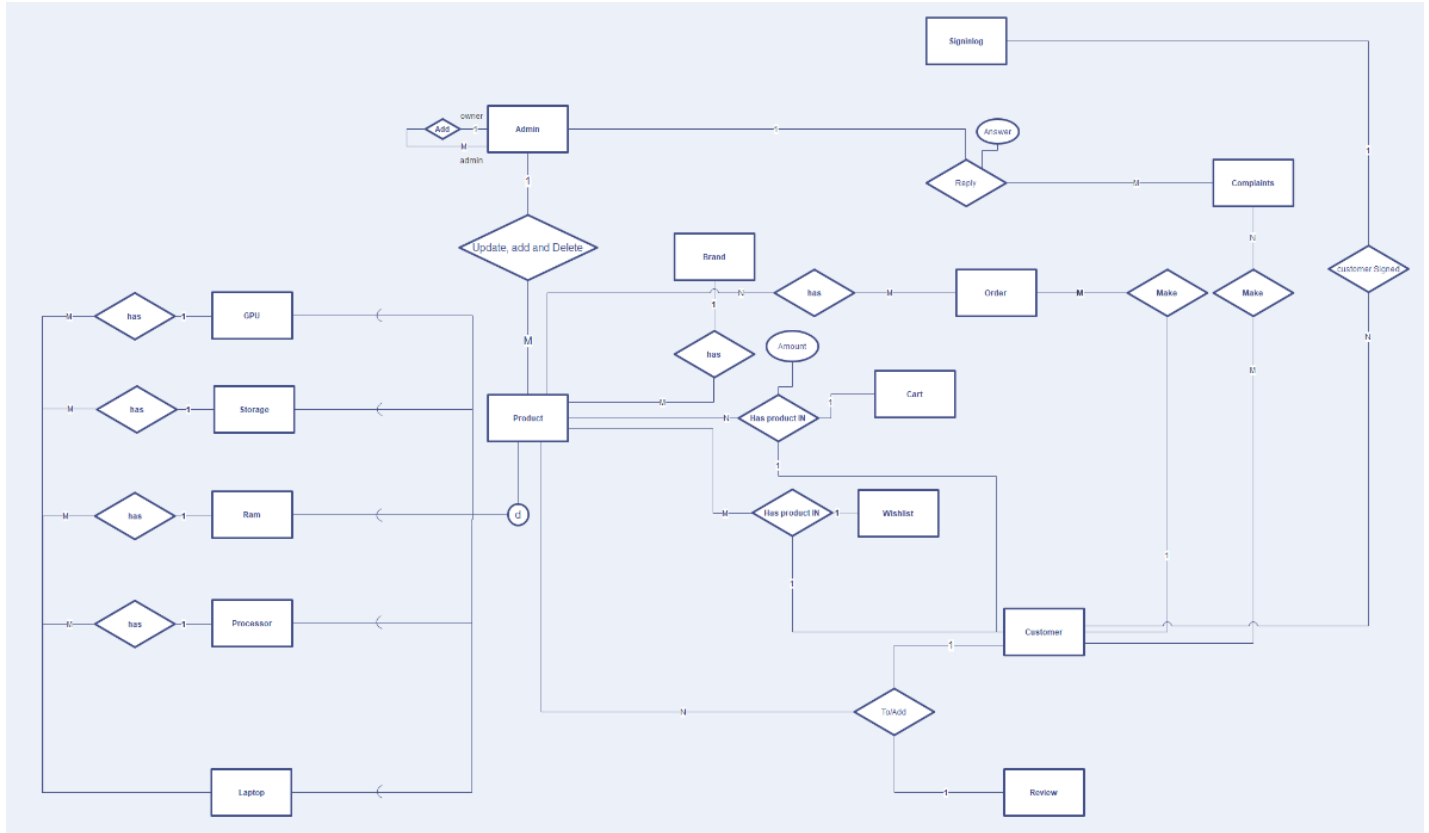
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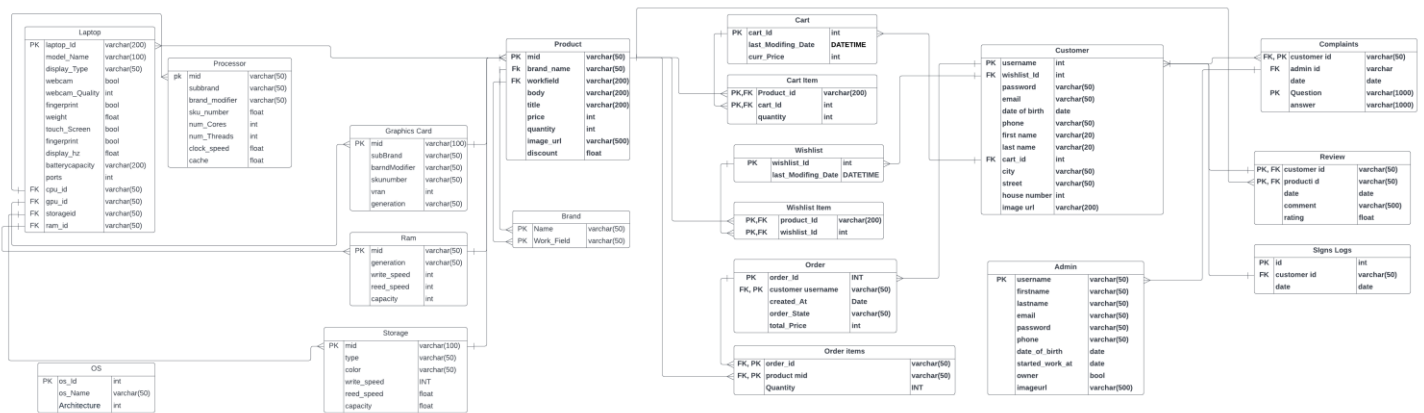
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ERD



For a full and clearer entity-relationship diagram please refer to this [link](#).

Schema diagram



For a full and clearer schema diagram please refer to [this link](#).

Database constraints

Admin:

Attribute	Unique	Not null
Username	✓	✓
Email	✓	✓
Password		✓
Phone	✓	

Brand:

Attribute	Unique	Not null
Name	✓	✓
Work field	✓	✓

Cart:

Attribute	Unique	Not null
Id	✓	✓
Current price		
Last modification date		

Cart item:

Attribute	Unique	Not null
id	✓	✓
Product id	✓	✓
quantity		

Complaint:

Attribute	Unique	Not null
Customer id	✓	✓
Admin id	✓	
Date		✓
Question		✓
Answer		

CPU:

Attribute	Unique	Not null
Mid	✓	✓
Sub brand		✓
Brand modifier		✓
Skunumber		✓
Number of cores		✓
Number of threads		✓
Clock speed		✓
Cache		✓

GPU:

Attribute	Unique	Not null
Mid	✓	✓
Sub brand		✓
Brand modifier		✓
Vram		✓
Generation		✓

Customer:

Attribute	Unique	Not null
Username	✓	✓
First name		
Last name		
Email	✓	✓
password		✓
phone	✓	
Date of birth		
City		
Street		
House number		
Cart id	✓	✓
Wish list id	✓	✓
Image URL		

Laptop:

Attribute	Unique	Not null
Mid	✓	✓
Model name		
Os		
Display type		
Fingerprint		
Weight		
weight		
Webcam		
Webcam quality		
Displayhz		
Battery capacity		
Ports		
Touch screen		
Cpu id	✓	✓
Gpu id	✓	✓
Storage id	✓	✓
Ram id	✓	✓

Order item:

Attribute	Unique	Not null
Order id	✓	✓
Product id	✓	✓
quantity		✓

Orders:

Attribute	Unique	Not null
id	✓	✓
Customer username	✓	✓
Total price		✓
Creation date		
Status		

Product:

Attribute	Unique	Not null
Mid	✓	✓
Brand name	✓	
Work field	✓	
Body		
Title		
Price		
Quantity		
Image URLs		
Discount		

Ram:

Attribute	Unique	Not null
Mid	✓	✓
Generation		
Write speed		
Read speed		
Capacity		

Review:

Attribute	Unique	Not null
Customer id	✓	✓
Product id	✓	✓
Date		✓
Comment		✓
Rating		✓

Sign in log:

Attribute	Unique	Not null
id	✓	✓
Customer id	✓	✓
Date		✓

Storage:

Attribute	Unique	Not null
Mid	✓	✓
Type		
Color		
Write speed		
Read speed		
Capacity		

Wish list:

Attribute	Unique	Not null
id	✓	✓
Last modification date		

Wish list item:

Attribute	Unique	Not null
id	✓	✓
Product id	✓	✓