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**INFO 6210 Data Management and Database Design**

**Final Exam**

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**Customized Laptops**

**“***Build your own laptop***”**

In this era of technology, electronics play a very important role and has become a necessity in every individual’s life. Customized laptop is basically based on what kind of laptop a person is looking for. Some may be looking for a gaming laptop, some for coding/programming; some may just need it for normal use just entry data job, some for designing- graphics, animation etc. So, it varies from people to people. As for each requirement the hardware or software specifications are different, it becomes difficult for the customers to choose from a pre manufactured laptops. Hence, this project helps the user to build or customize their own laptop depending on what specifications they require according to their requirements. The project tracks and stores the entire database needed to do so.

The project consists of the following items:

1. Supplier: The entity that will supplies product to the company.
2. Customer: The entity that places order and requests for the customized laptops as per their requirements and specifications..
3. Invoice: The project will also handle the database, which will store the invoice for the supplier as well as customer purchase.
4. The database will also store the bills and order history details.
5. Item: It will contain the information of all the parts, which are used for assembling the laptops.
6. Supplier: It will contain the information of all the suppliers who will supply the parts.
7. Customer: It will contain the information of all the customers who will order or have ordered any product.
8. Payment Details: List of cards saved by customers while checkout.
9. Customer Order Status: A record will be created when a customer places an order for customized product.
10. Customer Bill: A unique bill will be generated to store the order details for each customer.
11. Bill Details: Details of the bill will be stored in this table. A bill will have multiple lines and each line will have details about the items purchased in that bill.
12. Customer Order History: When the order is delivered to the customer, this table will get the entry from the Customer Order Status. It will store all orders made by the customer.
13. Supplier Purchase Status: A record will be created when a company places an order and sent it to supplier for required parts.
14. Supplier Invoice: An invoice overview which is sent from supplier for tracking payment.
15. Invoice Details: Invoice details which will have details about the items sold by that supplier.
16. Supplier Purchase History: When the order is delivered to the company, this table will get the entry from the Supplier Purchase Status. It will store all orders from the supplier.