Name: K Srikanth Registration Number: 17ETCS002124



Faculty of Engineering & Technology Semester End Examination Question Paper – B. Tech.

Department: Computer Science and Engineering

Course: B. Tech. in Computer Science and Engineering

Semester/Batch: 6th / 2018 Course Code: CSC404A

Course Title: Web architecture and Application development laboratory

Semester End Examination — Practical/Laboratory

INSTRUCTIONS TO STUDENTS:

- 1. Answer THE PARTICULAR QUESTION assigned to you by the Examiner
- 2. Use only SI units
- 3. Use of non-programmable scientific calculator is permitted
- 4. Use of data handbook permitted wherever applicable
- 5. Missing data may be appropriately assumed

Maximum Duration: 3 Hours Maximum Marks: 50

Scenario:

An online laptop store, has several products like Dell Inspiron, Lenovo i8, Dell studio, Dell Vostro, HP pavilion, HP i6 and MAC air. The item attributes are Id, laptop make, laptop description, discount and cost.

Design a database and create a web application with HTML user interface connecting the database using PHP. The application displays the database details in HTML page in a table format, where the items with more than 20% discount are shown.

You are required to document design and implementation including:

- a. Development of ER diagram and class diagram for the above scenario considering a registered user with valid attributes for both the diagrams
- b. Creation of database
- c. Source code with documentation
- d. Result screenshots

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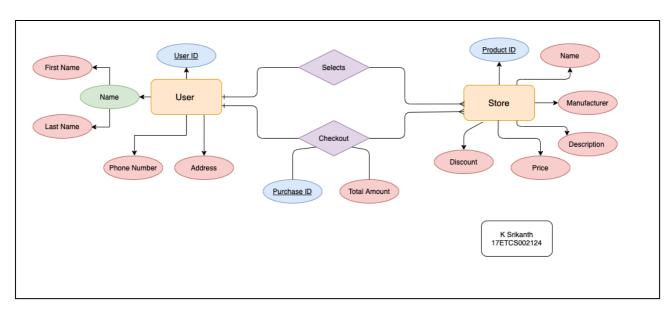
e. Analysis and discussion

SI. No.	Item	Maximum Marks	Marks Obtained
1	ER and Class diagram for the scenario	10	
	a		
2	Database + Source code and documentation +	13 + 15 + 5 + 7 =	
	Results + Analysis and Discussion	40	
	b + c + d + e		
	Total	50	
	Final Score	25	

Solution:

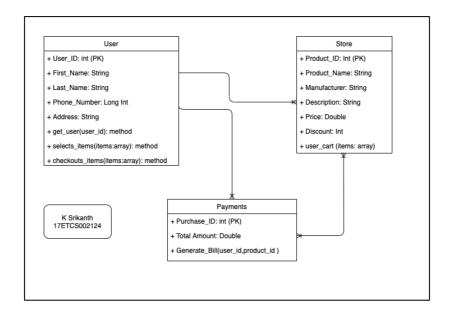
a. ER diagram and Class diagram

Entity Relation Diagram



Class Diagram

Name: K Srikanth



b. Creation of the database

Steps to Create a database

- 1. create database exam
- 2. use exam
- create table store (product_id int,name varchar(50),manufacturer varchar(50),price double(10,0),discount(10,0),description varchar(100),primary key(product_id))
- 4. insert into store values (1,"dell latitude e6420","dell",20000,15,"Nice Laptop")

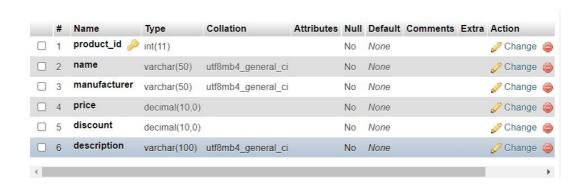


Figure 1 Image Showing the metadata for the database

Registration Number: 17ETCS002124



Figure 2 Image Showing the data in the database

c. Source Code with documentation

d. Results

Name: K Srikanth

Welcome to our store

ProductId	Product Name	Description	Manufacturer	Price	Discount
2	dell latitude 7310	dell	70000	25	Good specs in the price range
3	dell inspiron	dell	50000	30	intel i5
6	MacBook Pro	apple	200000	25	M1 powered

e. Analysis and Discussion

Successfully conducted the given questions without any errors. Completed the given task of displaying the database details in HTML page in a table format, where laptops list which are at discount above 20%. All the code is executed in a PHP header inside <body> tag.

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