

Jakarta EE Servlets, JSP & MVC Assessment -Max Marks 75

7th May 2024 -Practical

1. Demonstrate the following Operations with MVC, DAO & DAL & Business Logic Layers.

Create Online shopping Store screen with all products. Create category wise and price wise search options. All products should have “Add to cart” option to add any item to the cart. While adding item to the cart, ask for pin code, only allow the item to the cart if the item is serviceable (deliverable) to that pin code (refer the table given). User should be able to add multiple items and on check out, it should show the consolidated bill with GST on all products, Shipping Charges, GST on shipping charges. Refer the tables given for gST, and GST on shipping charges. Refer OrderValueWiseShippingCharges table to calculate the shipping charges

Note: No need to order creation, login, register, payment processing and all. Just we need display products and then update the checkout.

Note: Clean code should be written with proper comments. 5 Marks will be given for clean code.

Note: Your code should not match with others.

Imp : Along with the code (full project folder), also submit output screenshots of all features in working condition.

ProductCategories

This table stores different product categories.

prct_id	int
prct_title	v(100)
prct_desc	v(255)

HSNCodes

This table stores all hsn code wise GST

hsnc_id	int	AUTO	PK
hsnc_hsncode	v(20)	Actual HSN Code	
hsnc_gstc_percentage	numeric		

Products

This table stores various product info

Prod_id	int	AUTO
prod_title	v(100)	
prod_prct_id	int	FK
prod_hsnc_id	int	FK

prod_brand	v(100)
prod_image	image

ProductStock

This table stores the Live stock available.

prod_id	int	
prod_batchno	v(20)	
prod_price	numeric	
prod_stock	int	//qty available
prod_mrp	numeric	

OrderValueWiseShippingCharges

This table stores Order Value wise shipping charges. GST to be calculated on shipping charegs. First distribute the order shipping charges to all the products in that order on prorata basis, then apply the respective gst of that product on shipping too. Finally consolidate all the individual shipping charges along with GST to arrive full shipping charges wity GST.

orvl_id	int	PK
orvl_from	numeric	0
orvl_to	numeric	2000
orvl_shippingamount	numeric	100

ServiceableRegions

This table stores all serviceable regions with the respective covering pincodes

srrg_id	int
srrg_name	v(100)
srrg_pinfrom	int(6)
srrg_pinto	int(6)

ProductCategoryWiseServiceableRegions

This table stores different product catagory wise serviceable regions.

prct_id	int
srrg_id	int CPk(1,2)