

**PRATICAL PROBLEMSHEET - 2**

**SUBMISSION DATE: 7/09/2022**

**Question 1:** Create a simple interest calculator web page using a servlet.

**Question 2:** Develop a dynamic web application using servlets to create and display cookies.

**Question 3:** Create a registration form and display the values entered by the user in another page using servlets.

**Question 4:** Write a program using servlets to display data from a database table.

**Question 5:** Display a servlet that fetches init parameters from web.xml displaying user information.

**Question 6:** Write a program using servlets to create and display context parameters.

**Question 7:** Develop a dynamic web application using servlets to to demonstrate doGet(), and doPost() methods.

**Question 8:** Write an application using servlets to show how forward() method works. Also, demonstrate the use of include() method in servlets. Furthermore, show how sendRedirect() method works using servlets.

**Question 9:** Create an application to demonstrate servlet listeners.

**Question 10:** Write a program that creates an HTTP servlet to perform session tracking

**Question 11:** In order to demonstrate the working of servlet filters create a dynamic web application.

**Question 12:** A Fashion Store wishes to go online. The Items to be sold are arrange in various categories with discounts or coupon code.

Database:

1. category master (category\_id, category\_name, parent\_category\_id)
2. product\_master (product\_id, product\_name, price, unit, discount, image, category\_id, stock)

3. user\_master(user\_id, username, login\_id, password, password\_question, password\_answer, email, phone, address, city. State, country, pin);
  4. order\_master( order\_id, order\_datetime, session\_id, payment\_mode, tax, total\_amount, order\_status)
  5. order\_details( order\_detail\_id, order\_id, product\_id, product\_price, discount)
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1. Provide an attractive home page. The home page must have facility to login, register new user and remember password and recover forgot password facility.
  2. Present a registration form to the new users with facility of captcha code in it. Also give the facility to edit the profile.
  3. Provide a Authentication Filter to protect other pages from direct access
  4. Present data entry links and forms to administrators to enter data for new items with facility of add delete , update and find. (Give the interface for Product Master and category Master)
  5. The successfully logged users should be presented with A shop. Allow customers to select items and drop them into shopping cart. Give them facility to add, edit and delete items from shopping cart. Also give them facility to prepare bill. Store the bill into a database with status of payment.
  6. Keep a track of everybody who visits the shop and records all session ID of the users in the database using Listeners
  7. Give a report of the
    - a) stock of all the items
    - b) Clients who have have visited the site more than 5 times
  8. Send an auto email to all the clients on their birthday.

**JAVA STREAM QUESTIONS**

**Question 13:**

Get student with exact match name "Jayesh"

1. Get student with matching address "1235"
2. Get all student having mobile numbers 3333.
3. Get all student having mobile number 1233 and 1234
4. Create a List<Student> from the List<TempStudent>
5. Convert List<Student> to List<String> of student name
6. Convert List<students> to String
7. Change the case of List<String>
8. Sort List<String>
9. Conditionally apply Filter condition, say if flag is enabled then.
- 10.Count Empty Strings.
- 11.Eliminate Empty Strings.
- 12.Eliminate Empty Strings and join using comma.
- 13.Get List of Square of distinct numbers.
- 14.Print Ten Random numbers.