

Assignment-2

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Roll No : 25

Div : ICT Sem-3

Subject : Open Source Web Development

1. - Develop a user registration form (fields: username, password, confirm password, email, gender, hobbies, upload profile pic, upload other pics) (use text box, radio, checkboxes, file upload) using Express. Form should also contain file upload (single, multiple) with validations.

- In case of invalid data, display errors along with all previous field values.
- In case of all valid fields, display all data and images in a well formatted tabular form.

and allow the user to download that file using Express. Develop route for file download.

(Use express, ejs, express-validator)

Registration Form

Username:

Email:

Password:

Confirm Password:


Gender: ☒ Male ☐ Female

Hobbies: ☐ Reading ☒ Sports ☒ Music

Profile Picture: Screenshot (11).png

Other Pictures: Screenshot (9).png

User Registration Details

Username	shani
Email	samarthmashruwala@gmail.com
Gender	Male
Hobbies	Sports, Music
Profile Pic	
Other Pics	

[Download User Data](#)

2. Express Login application with file session store.

Login Page

Username:

Password:

Login

Welcome, admin!

You are logged in using **File Session Store**.

[Logout](#)

3. Express Login application with redis session store.

Login Page (Redis Session)

Username:

Password:

Login

Welcome, admin!

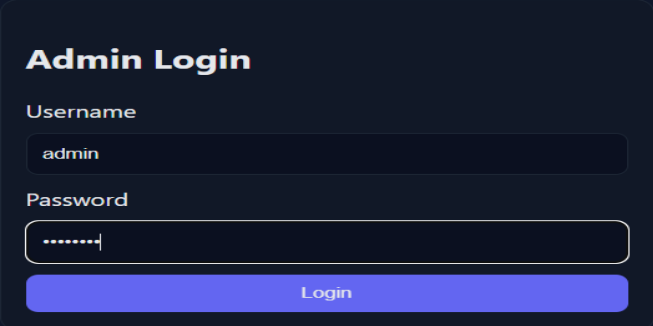
You are logged in using **Redis Session Store**.

[Logout](#)

```
C:\Windows\System32\cmd.exe - redis-cli
Microsoft Windows [Version 10.0.19045.6216]
(c) Microsoft Corporation. All rights reserved.

C:\Program Files\Redis>redis-cli
127.0.0.1:6379> KEYS *
(empty list or set)
127.0.0.1:6379> KEYS *
1) "sess:BBjy6AD9MVvZ2DP67xxjPEW7lpnuBOfP"
127.0.0.1:6379> _
```

4. Develop login for an ADMIN panel of ERP system with session, CRUD operations for employees table (generate empid and password) with salary calculation with mongoose, express and EJS template engine. Send email to employee when inserted. Encrypt the password. Logout.



The image shows a dark-themed web form titled "Admin Login". It contains two input fields: "Username" with the value "admin" and "Password" with masked characters ".....". Below the fields is a blue "Login" button. At the bottom of the page, there is a copyright notice "© 2025 ERP".

Add Employee

Name

shani

Email

shani@gmail.com

Basic

50000

HRA

4000

DA

300

Bonus

2200

Deductions

1000

Create & Send Email

Cancel

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Employees

+ Add Employee

EmpID	Name	Email	Basic	HRA	DA	Bonus	Deductions	Total	Actions
EMP-20250824-Y35VR	shani	shani@gmail.com	4000	100	200	500	100	4700	<div>EditDelete</div>

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5. Develop employee site (refer Q4) login with JWT, for employees with mongoose, express and frontend(html,css,javascript/jquery JAM Stack), -Page1) display employee profile . Page2) - Application for leave (fields date, reason, grant yes/no) Add, List - Logout.

Employee Login

Email

shani@gmail.com

Password

.....

Login

My Profile

Employee ID: EMP-1002

Name: shani mashruwala

Email: shani@gmail.com

Department: ICT


Title: Software Engineer


Join Date: 8/24/2025

6. Call any free api for a useful utility from frontend and backend.

Weather Utility App

Surat, India

 Temperature: 28 °C

 Windspeed: 17.7 km/h

7. Shopping cart with admin site and user site with (2 level) Category and Products.

Admin Dashboard

Categories

[New Category](#)

- Clothing [Edit](#) [Delete](#)
- Home-Decor [Edit](#) [Delete](#)
- Food [Edit](#) [Delete](#)

Subcategories

[New Subcategory](#)

- Traditional (parent: Clothing) [Edit](#) [Delete](#)
- Western (parent: Clothing) [Edit](#) [Delete](#)
- Kitchen Appliances (parent: Home-Decor) [Edit](#) [Delete](#)
- Vegetables (parent: Food) [Edit](#) [Delete](#)
- Fruits (parent: Food) [Edit](#) [Delete](#)
- Furniture (parent: Home-Decor) [Edit](#) [Delete](#)

New Product

Title:

Price:

Category:

Subcategory:

Description:

[Create](#)

[Back](#)

Products

[New Product](#)

- Jeans - ₹2000 [Edit](#) [Delete](#)
- Pressure-Cooker - ₹5500 [Edit](#) [Delete](#)
- Potato - ₹20 [Edit](#) [Delete](#)
- Mango - ₹1500 [Edit](#) [Delete](#)
- Top - ₹800 [Edit](#) [Delete](#)
- Sofa - ₹25000 [Edit](#) [Delete](#)
- Lehenga - ₹20000 [Edit](#) [Delete](#)

[Home](#) | [Cart](#) | [Admin](#)

Categories

- [Clothing](#)
- [Home-Decor](#)
- [Food](#)

Subcategories of Clothing

- [Traditional](#)
- [Western](#)

[Back](#)

Products in Western

- [Jeans](#) - ₹2000 [Add to cart](#)
- [Top](#) - ₹800 [Add to cart](#)

[Back](#)

Sofa

Price: ₹25000

Pink Sofa

[Add to cart](#) [Back](#)

Your Cart

Product	Qty	Price	Action
Top	2	₹1600.00	Remove
Sofa	1	₹25000.00	Remove
Potato	1	₹20.00	Remove
Mango	1	₹1500.00	Remove

Total: ₹28120.00

[Continue shopping](#)