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Roll No.: 42

Subject: Open source web development

Div: ICT 3rd

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)

Output: -

User Registration Form

Username:

Dhruv

Email:

dhruv@gmail.com

Password:

Confirm Password:

Gender:

☒ Male ☐ Female

Hobbies:

☐ Reading ☒ Traveling ☒ Gaming

Profile Pic:

Choose File

Ganesh Hd Wallpaper.jpeg



Other Pics:

Choose Files

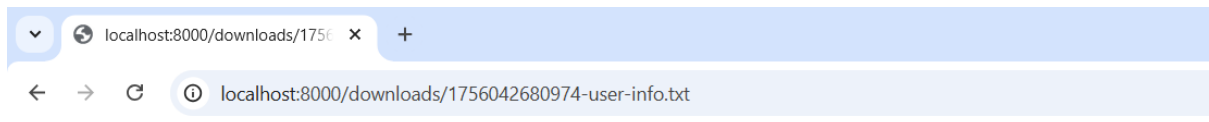
ganpati dada (2).jpeg

Register

Submitted Data

Username	Dhruv
Email	dhruv@gmail.com
Gender	Male
Hobbies	Traveling, Gaming
Profile Pic	
Other Pics	

Download Info File



Username: Dhruv
Email: dhruv@gmail.com
Gender: Male
Hobbies: Traveling, Gaming

2) Express Login application with file session store.

Output: -

Login App

[Login](#) | [Register](#)

Email:

Password:

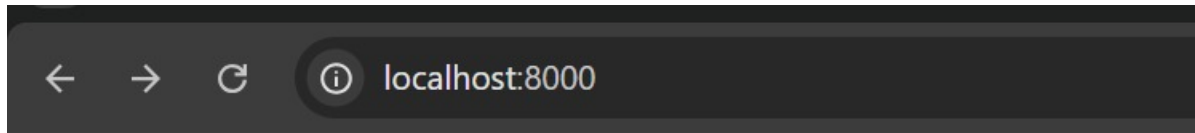
Welcome admin@gmail.com!

[Logout](#)



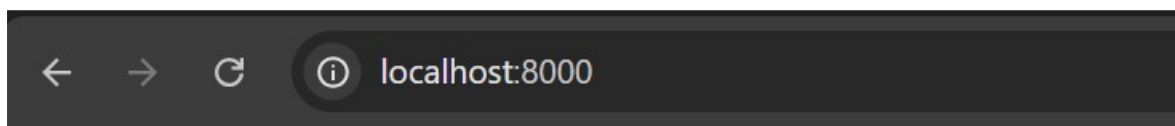
3) Express Login application with redis session store.

Output:-



Username:

Password:



Welcome, admin

[Logout](#)

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.

Output: -

Admin Login

Username: Password:

Create Employee

Name:

Email:

Basic Salary:

HRA:

DA:

[Back to List](#)

Edit Employee

Name:

Email:

Basic Salary:

HRA:

DA:

[Back to List](#)

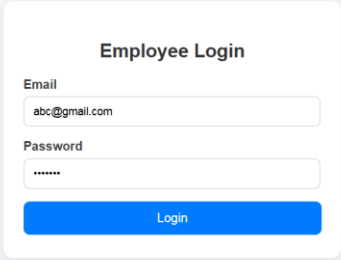
Employee List

[+ Add Employee Logout](#)

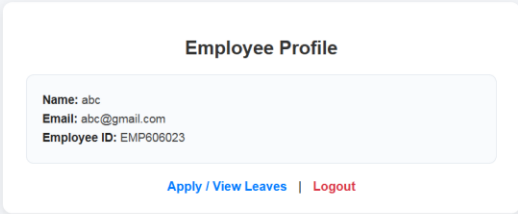
ID	Name	Email	Salary	Actions
EMP1755964275991	pratham	pratham32@gmail.com	₹30027	Edit Delete
EMP1755964325681	khush	khush@gmail.com	₹20300	Edit Delete
EMP1755964445785	kvaibhav	vaibhav@gmail.com	₹20320	Edit Delete

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.

Output: -



The image shows a web form titled "Employee Login". It has two input fields: "Email" with the value "abc@gmail.com" and "Password" with masked characters "*****". Below the fields is a blue button labeled "Login".



The image shows a web form titled "Employee Profile". It displays the following information: "Name: abc", "Email: abc@gmail.com", and "Employee ID: EMP606023". At the bottom, there are two links: "Apply / View Leaves" in blue and "Logout" in red.

Apply for Leave

Leave applied

Date

dd/mm/yyyy

Reason

Submit Leave

Your Leaves

Date	Reason	Granted	Applied At
8/27/2025	Ganesh Chaturti Puja	No	8/24/2025, 6:55:30 PM
8/22/2025	sadstfdghj	No	8/24/2025, 11:24:36 AM

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

Output: -

Upcoming Public Holidays

Select Country

- 2025-09-20 - Weltkindertag
- 2025-10-03 - Tag der Deutschen Einheit
- 2025-10-31 - Reformationstag
- 2025-11-01 - Allerheiligen
- 2025-11-19 - Buß- und Betttag

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

Output: -

Shopping Cart

PRODUCT	PRICE	QUANTITY	ACTION
sd	₹234	1	<button>Remove</button>

Continue Shopping

Manage Products

Vegetable

Add

Product List

NAME	PRICE	CATEGORY	DESCRIPTION
sd	₹234	Vegetable	assdf
LadyFinger	₹50	Vegetable	500gm
Potato	₹30	Vegetable	1kg

Manage Categories

--No Parent--

Add

Category List

Vegetable
LadyFinger (Parent: Vegetable)
Potato (Parent: Vegetable)
Fruits
Car
Bike

Shop by Category

Vegetable

Fruits

Car

Bike

View Cart