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Sem : 7 [M.Sc.IT]  
Roll No : **127**  
Div : B  
Subject : Application development using full stack

ASSIGNMENT – 2

**Q: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)**

The screenshot shows a web browser window with the title 'Practical Assignment-2' and the address bar displaying 'localhost:8000'. The browser's address bar also shows 'Q1'. The page content is a user registration form titled 'User Registration Form'. The form includes the following fields and validation messages:



- Username:** A text input field containing 'ABC'.
- Password:** A text input field with masked characters '\*\*\*\*\*'.
- Confirm Password:** A text input field with a red error message 'Confirm password is required'.
- Email:** A text input field with a red error message 'Email is required'.
- Gender:** Radio buttons for 'Male' and 'Female', with a red error message 'Gender is required'.
- Hobbies:** Checkboxes for 'Reading', 'Traveling', and 'Sports', with a red error message 'Please select at least one hobby'.
- Profile Picture [single file]:** A 'Choose File' button, with a red error message 'Profile picture is required'.
- Other Pictures [multiple file]:** A 'Choose Files' button, with a red error message 'Please upload at least one other picture'.
- Submit:** A button at the bottom of the form.

The browser's taskbar at the bottom shows the system clock as 16:07 on 26-08-2025, and the weather as 30°C Partly sunny.

Practical Assignment-2 Submitted Data localhost:8000

Apps New chat phpmyadmin Stripe Payment Gat... Main Page Project Welcome to Consu... Chat | Manish Pipal...

### Submitted User Data

Username	ABC
Email	ka12@gmail.com
Gender	Female
Hobbies	Reading, Traveling
Profile Pic	
Other Pics	

File Explorer

30°C Partly sunny Search 16:08 26-08-2025

## Downloaded file:-

SenVn Scaffo using i Aug 02 8\_54 MYFIRSTCOC using l entity\_frame Categ local fi DHAVALJOSI 1. Use Aug 06 9\_33 using l usefull\_sess user\_1 X

File Edit View H1 B I A

User Registration Data

Username: ABC  
Email: ka12@gmail.com  
Gender: Female  
Hobbies: Reading, Traveling  
Profile Picture: 1756204702455-2.jpg  
Other Pictures: 1756204702476-1.jpg, 1756204702488-3.jpg

Ln 1, Col 1 197 characters Plain text 100% Unix (LF) UTF-8

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## Q:2 - Express Login application with file session store.

Practical Assignment-2 x Submitted Data x Q2 x +

localhost:3000/login

Apps | New chat | phpmyadmin | Stripe Payment Gat... | Main Page | Project | Welcome to Consu... | Chat | Manish Pipali... | All Bookmarks

### Express Login application with file session store.

Enter Username :

Enter Password :

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Practical Assignment-2 x Submitted Data x Dashboard x +

localhost:3000/dashboard

Apps | New chat | phpmyadmin | Stripe Payment Gat... | Main Page | Project | Welcome to Consu... | Chat | Manish Pipali... | All Bookmarks

### Welcome, kashish!

This is your dashboard.

[Logout](#)

Application

Manifest

Service workers

Storage

Storage

- Local storage
- Session storage
- Extension storage
- IndexedDB

Cookies

- http://localhost:3000
  - Private state tokens
  - Interest groups
  - Shared storage
  - Cache storage
  - Storage buckets

Background services

- Back/forward cache
- Background fetch
- Background sync
- Bounce tracking miti...
- Notifications
- Payment handler
- Periodic background ...
- Speculative loads

Filter

Name	Value	D...	P...	E...	S...	H...	S...	P...	C...	P...
__stripe_mid	dfdf5e506-b209-428...	l...	/	2...	54					M...
connect.sid	s%3AMeZbhuEZB8...	l...	/	2...	95	✓				M...

Cookie Value ☐ Show URL-decoded

s%3AMeZbhuEZB8WVQp3T\_Vu6p9vScUD8MbX7.PkSpG5%2f3z3yMIS3ZamvOQL2tiv7W5CVzZH3T%2FKQIA

What's new in DevTools 139

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### Q:3 - Express Login application with redis session store.

Express Login application with redis session store.

Enter Username:

Enter Password:

Name	Value	D...	P...	E...	H...	S...	P...	C...	P...
_stripe_mid	dd65e506-b209-428...	l...	/	2...	54	S...			M...
connect.sid	s%3Avf5dnyUA3nD...	l...	/	2...	91	✓			M...

No cookie selected  
Select a cookie to preview its value

Welcome, user!

This is your dashboard.

[Logout](#)

Name	Value	D...	P...	E...	H...	S...	P...	C...	P...
_stripe_mid	dd65e506-b209-428...	l...	/	2...	54	S...			M...
connect.sid	s%3AIlUcoXFFAlmZu...	l...	/	2...	93	✓			M...

No cookie selected  
Select a cookie to preview its value

Q: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.

Practical Assignment-2Submitted DataDashboardAdmin Login

localhost:3000/login

AppsNew chatphpmyadminStripe Payment Gat...Main PageProjectWelcome to Consu...Chat | Manish Pipali...

Admin Login

Username

admin

Password

\*\*\*\*\*

Login

Copilot

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Practical Assignment-2Submitted DataDashboardEmployees

localhost:3000/employees

AppsNew chatphpmyadminStripe Payment Gat...Main PageProjectWelcome to Consu...Chat | Manish Pipali...

Employees

Add EmployeeLogout

EmpID	Name	Email	Designation	Base	hra[%]	Bonus[%]	Total Salary	Actions
EMP451745	Kashish	thakkarkashish586@gmail.com	Manager	20000.00	10	0	22000.00	<div>EditDelete</div>

Copilot

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Search

ENG IN16:2026-08-2025

Practical Assignment-2Submitted DataDashboardNew Employee

localhost:3000/employees/new

AppsNew chatphpmyadminStripe Payment Gat...Main PageProjectWelcome to Consu...Chat | Manish Pipal...

### New Employee

Name

Bhumi

Email

bhumi12@gmail.com

Designation

Manager

Base Salary

20000

hra[%]

10

Bonus [%]

10

CreateBack

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Search

ENGIN

16:2226-08-2025

Compose

Inbox922

Starred

Snoozed

Sent

Drafts50

Categories

Social730

Updates951

Forums1

Promotions777

More

Labels

Upgrade

in:sent

Welcome to ERP System

thakkarkashish586@gmail.com

to bhumi12

Hi Bhumi,

Your ERP login details:  
EmpID: EMP260818  
Password: lku084uf

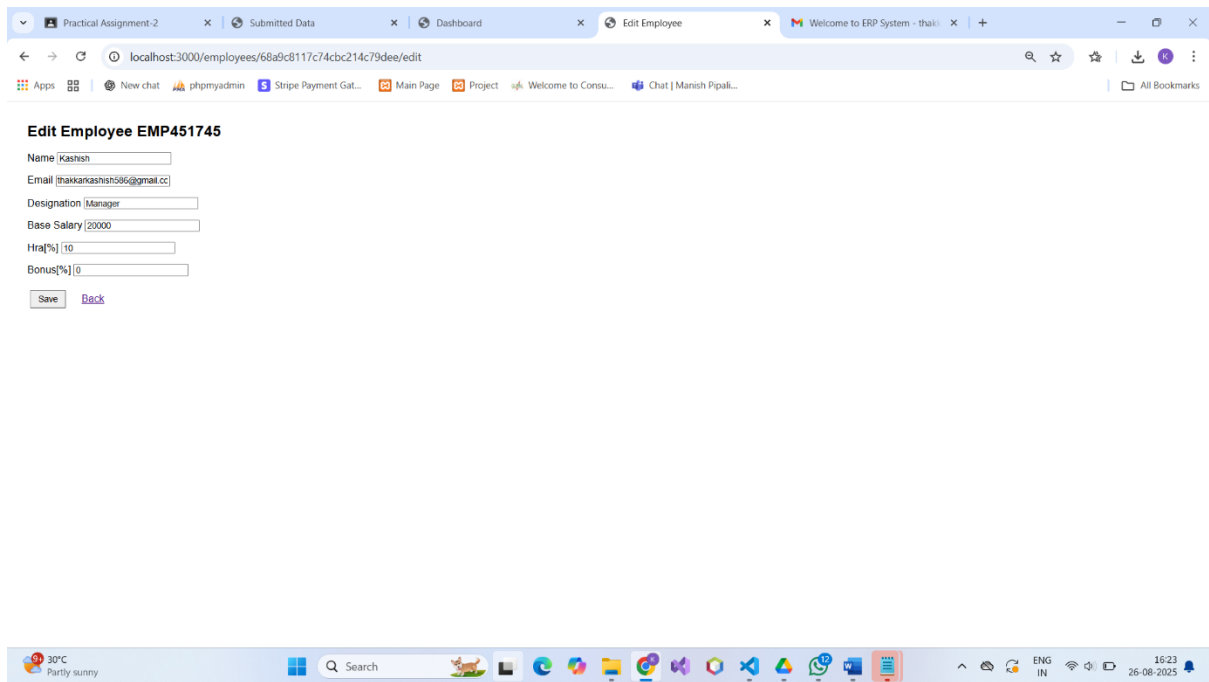
ReplyForward

16:22 (0 minutes ago)

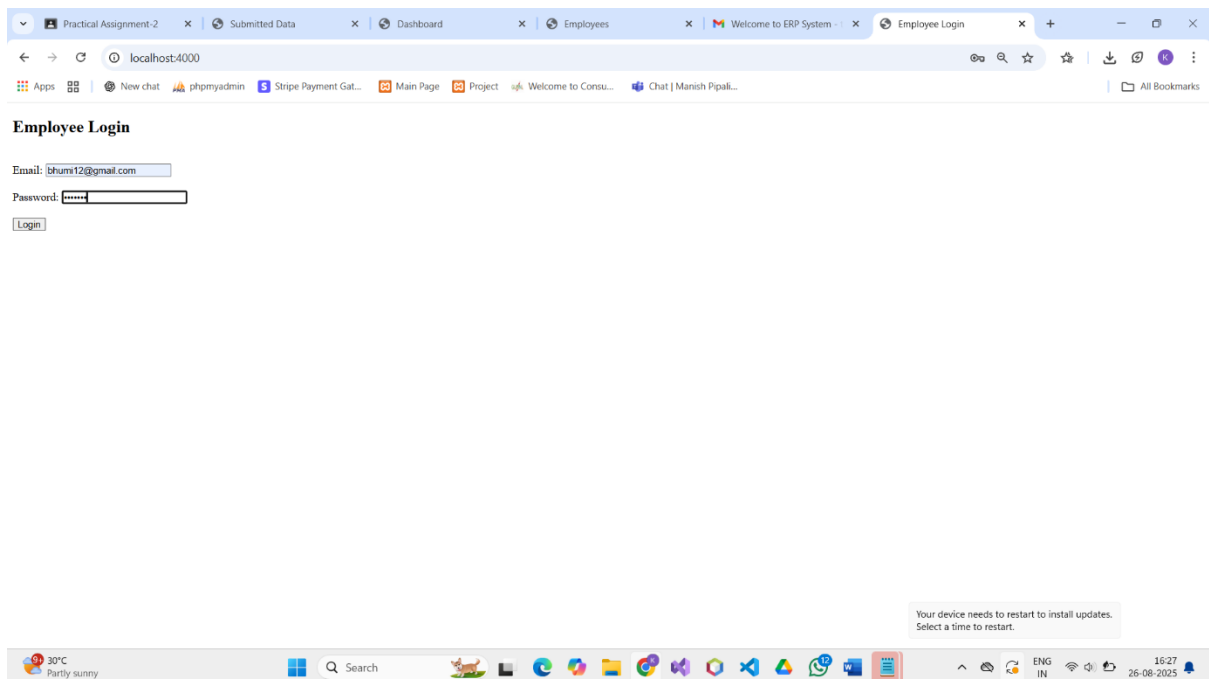
1 of 180

ENGIN

16:2326-08-2025



**Q: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.**





Practical Assignment-2Submitted DataDashboardEmployeesWelcome to ERP System - Employee Profile

localhost:4000/profile.html

AppsNew chatphpmyadminStripe Payment Gat...Main PageProjectWelcome to Consu...Chat | Manish Pipali...All Bookmarks

## Profile

Name: Bhumi

Email: bhumi12@gmail.com

Designation: Manager

Salary: 20000

[Logout](#) [Go to Leave Page](#)

Start

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Practical Assignment-2Submitted DataDashboardEmployeesWelcome to ERP System - Leave Application

localhost:4000/leave.html

AppsNew chatphpmyadminStripe Payment Gat...Main PageProjectWelcome to Consu...Chat | Manish Pipali...All Bookmarks

## Leave Application

Date:

Reason:

[Apply Leave](#)

### My Leaves

- 2025-08-22 - Travel [Granted: No]

[Back to Profile](#)

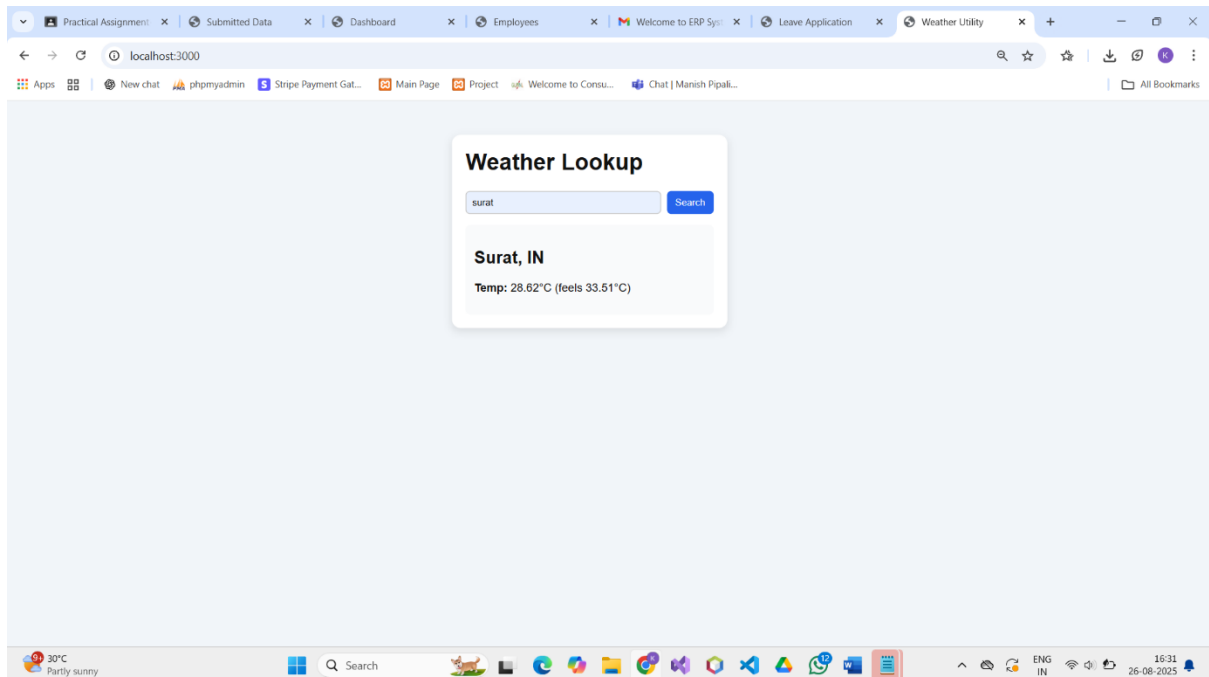
[Logout](#)

30°C  
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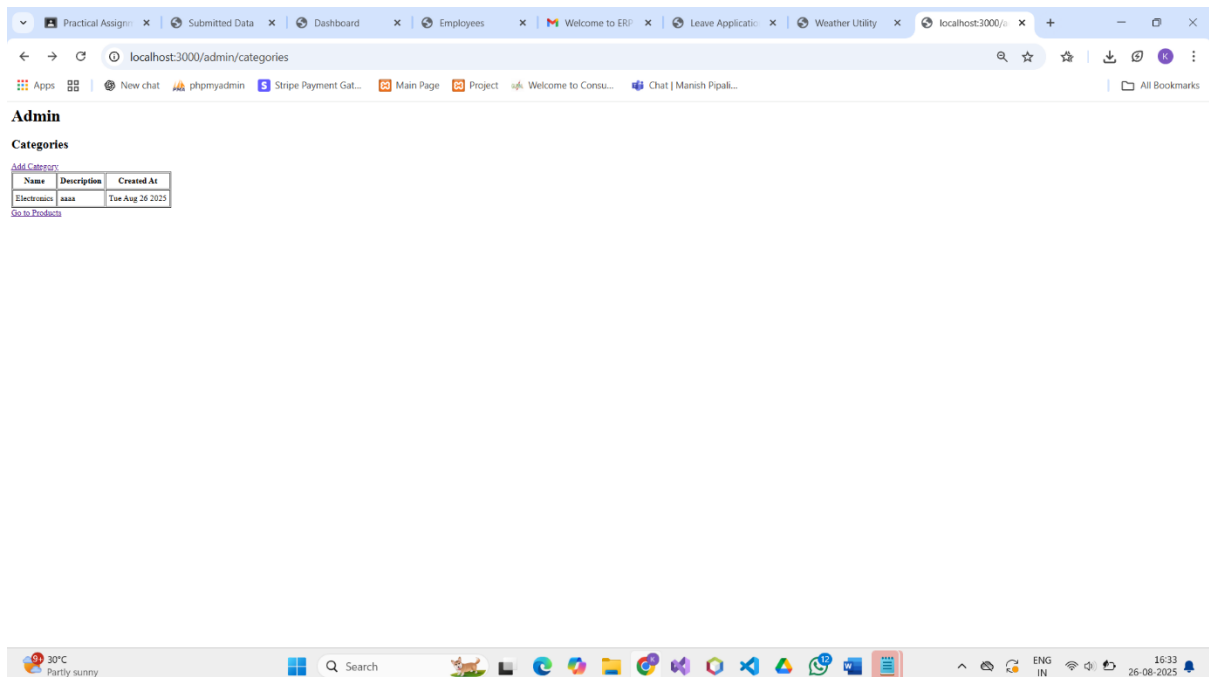
Search

ENG  
IN16:29  
26-08-2025

**Q:6 - Call any free api for a useful utility from frontend and backend.**



**Q:7 - Shopping cart with admin site and user site with (2 level) Category and Products.**



Practical Assignm...Submitted DataDashboardEmployeesWelcome to ERPLeave Applicatio...Weather Utilitylocalhost:3000/

localhost:3000/admin/add-category

AppsNew chatphpmyadminStripe Payment Gat...Main PageProjectWelcome to Consu...Chat | Manish Pipali...All Bookmarks

Admin

Add Category

Name:

Description:

Save

[Back to Categories](#)

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Search

ENG IN16:3326-08-2025

Practical Assignm...Submitted DataDashboardEmployeesWelcome to ERPLeave Applicatio...Weather Utilitylocalhost:3000/

localhost:3000/admin/add-product

AppsNew chatphpmyadminStripe Payment Gat...Main PageProjectWelcome to Consu...Chat | Manish Pipali...All Bookmarks

Admin

Add Product

Name:

Price:

Stock:

Category: 

Electronics

ElectronicsFashion

Save

[Back to Products](#)

30°CPartly sunny

Search

ENG IN16:3526-08-2025

# Welcome User

## Categories

Name	Description	Action
Electronics	aaaa	<a href="#">View Products</a>
Fashion	Trending Clothes	<a href="#">View Products</a>

[View Cart](#)

# Welcome User

## Products

Name	Price	Stock	Action
AC	\$45000	4	<a href="#">Add to Cart</a>
AC	\$500000	10	<a href="#">Add to Cart</a>

[View Cart](#)

Welcome User

Your Cart

Product	Quantity	Price
AC	2	\$40000

Total: \$40000

[Continue Shopping](#)

