

PRACTICAL ASSIGNMENT - 2

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Roll No : 50

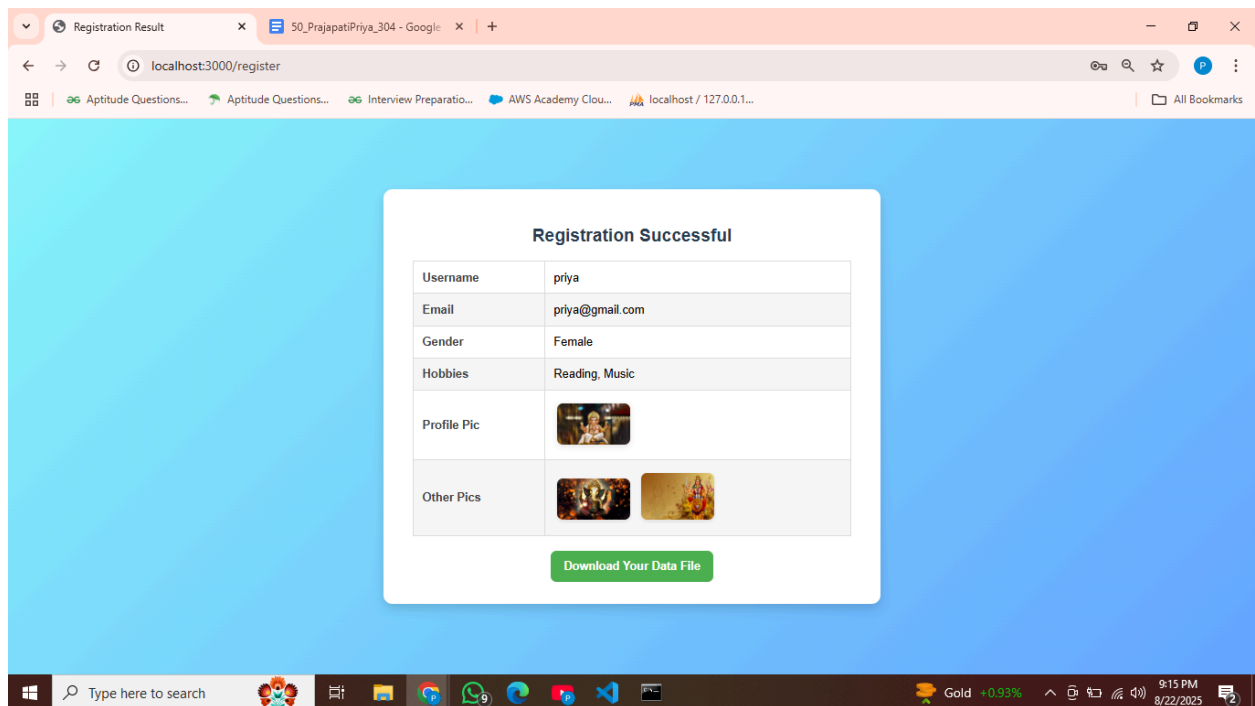
Subject : Open Source Web Development

Dept. : Msc ICT(3rd Sem)

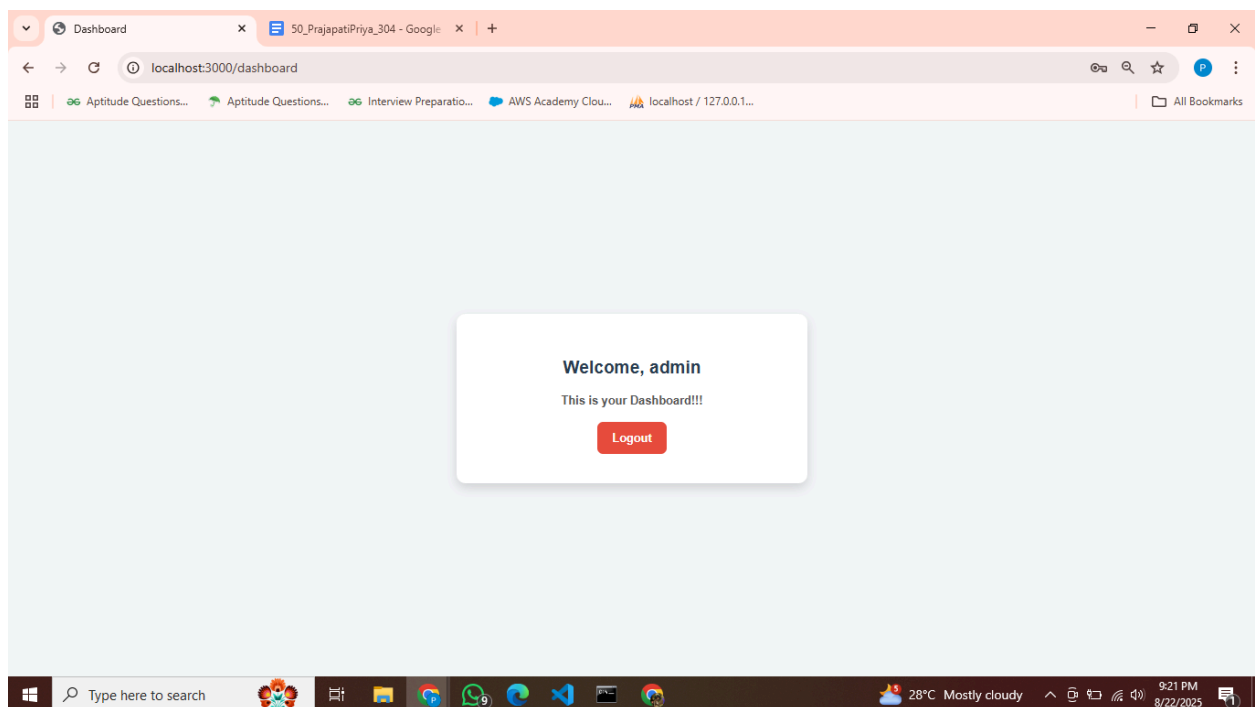
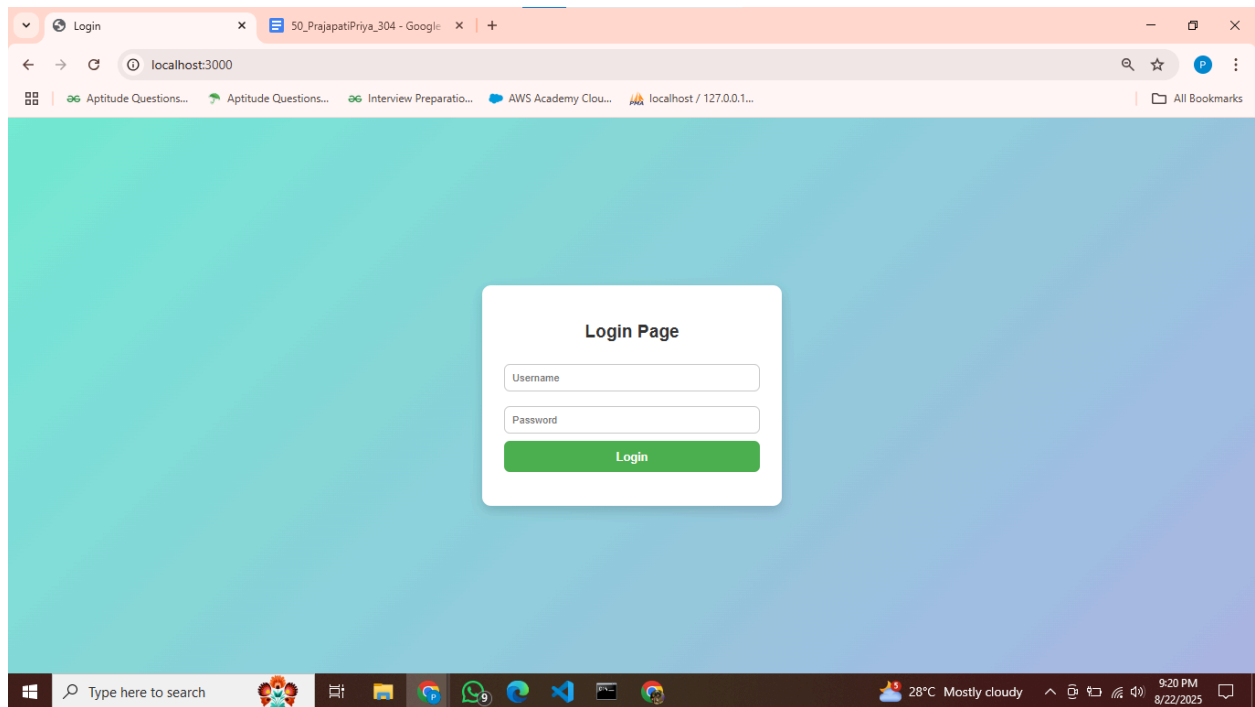
Date : 23-08-2025

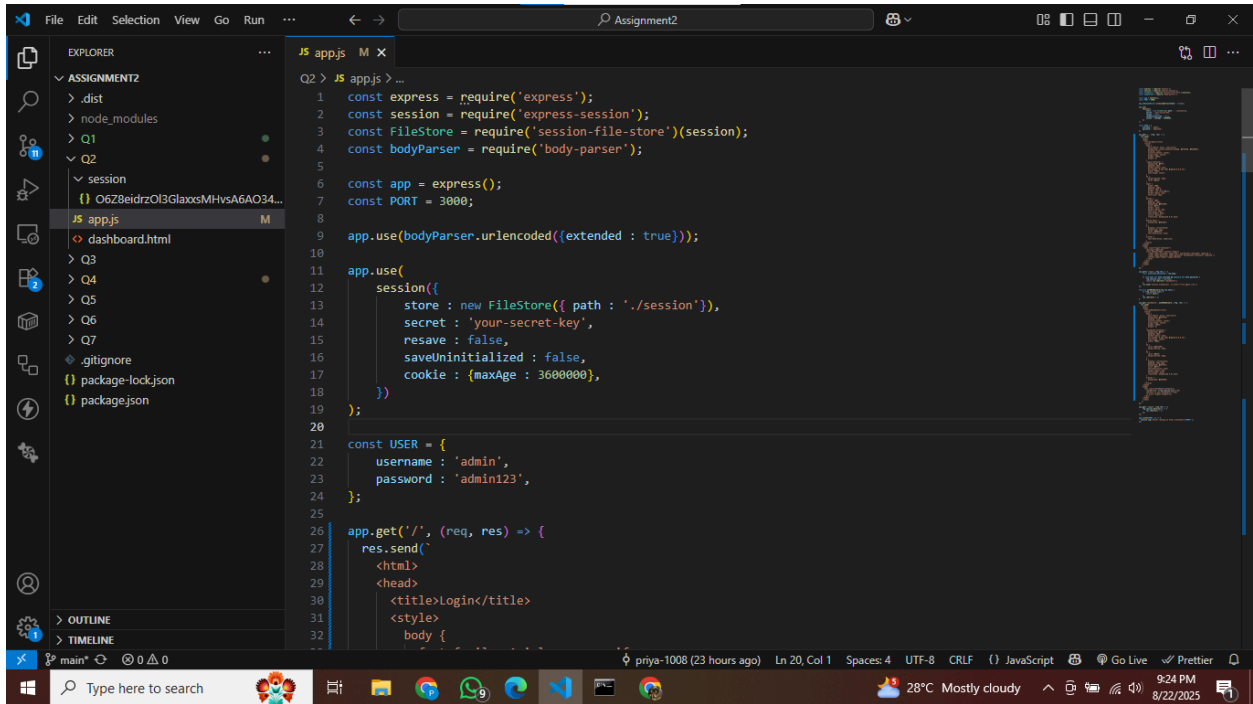
Question-01 : Develop a user registration form (fields: username, password, confirm password, email, gender, hobbies, upload profile pic, upload other pics) (use text box, radio, checkboxes, file upload) using Express. Form should also contain file upload (single, multiple) with validations.

- 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)



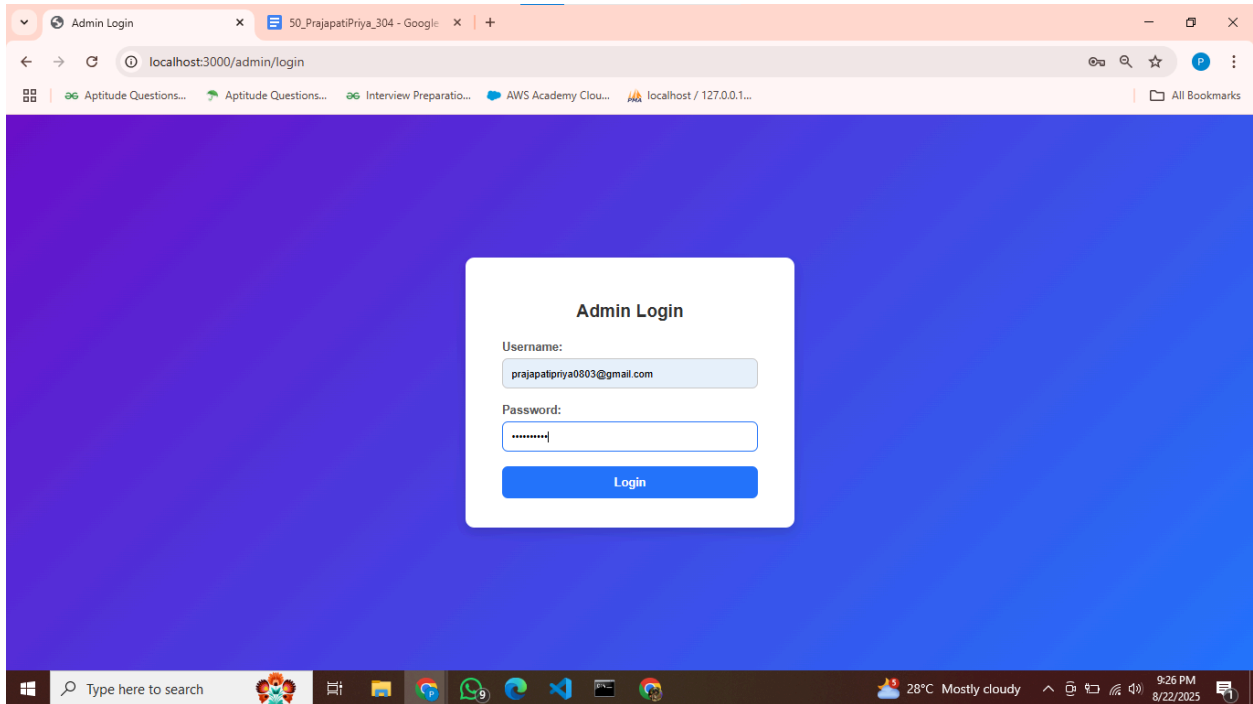
Question-02 : Express Login application with file session store.





```
Q2 > JS app.js > ...
1  const express = require('express');
2  const session = require('express-session');
3  const FileStore = require('session-file-store')(session);
4  const bodyParser = require('body-parser');
5
6  const app = express();
7  const PORT = 3000;
8
9  app.use(bodyParser.urlencoded({extended : true}));
10
11  app.use(
12    session({
13      store: new FileStore({ path : './session'}),
14      secret : 'your-secret-key',
15      resave : false,
16      saveUninitialized : false,
17      cookie : {maxAge : 3600000},
18    })
19  );
20
21  const USER = {
22    username : 'admin',
23    password : 'admin123',
24  };
25
26  app.get('/', (req, res) => {
27    res.send(`
28    <html>
29    <head>
30      <title>Login</title>
31    </head>
32    <body>
33      <div>
34        <div>
35          <h2>Admin Login</h2>
36          <div>
37            Username:
38            <input type="text" value="prajapatiPriya0803@gmail.com" />
39            Password:
40            <input type="password" value="*****" />
41            <button type="button" value="Login" />
42          </div>
43        </div>
44      </div>
45    </body>
46    </html>`);
47  });
```

Question-04 : 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.





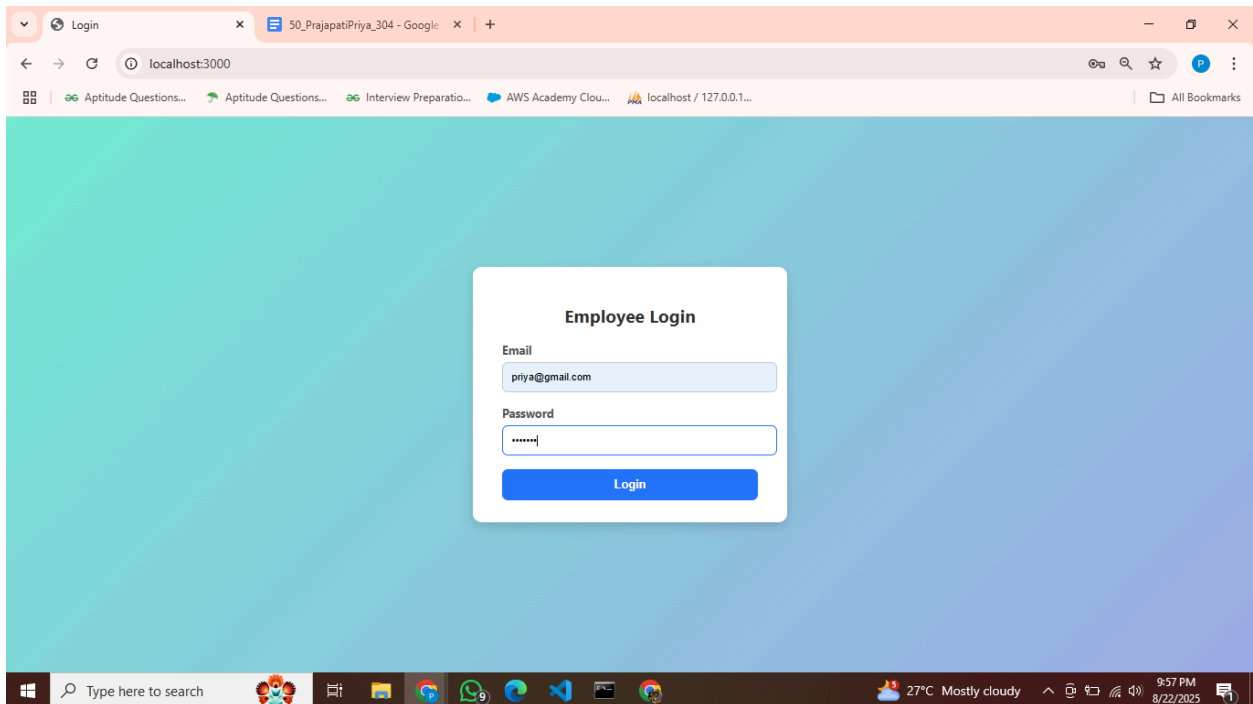
Employee List

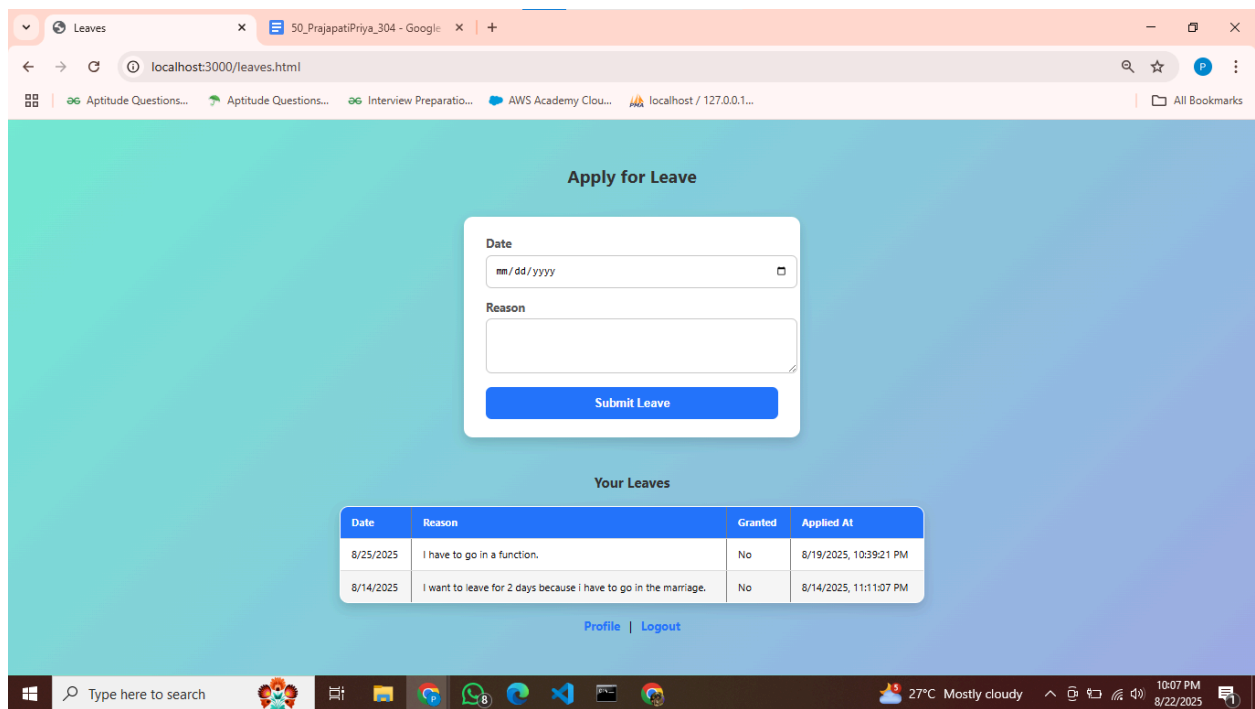
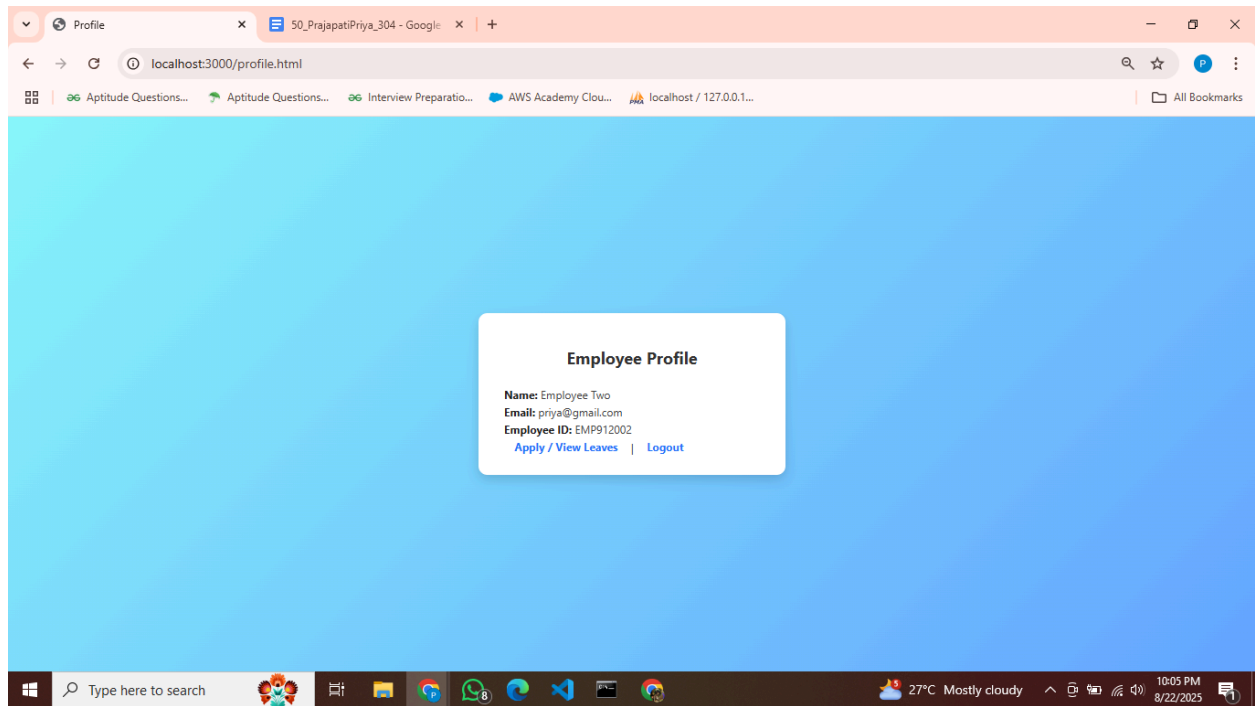
[Add Employee](#) | [Logout](#)

ID	Name	Email	Salary	Actions
EMP1755180934122	Prajapati Priya	prajapatipriya0803@gmail.com	41100	Edit Delete
EMP1755181178678	Jadhav Swati	jadhavswati1108@gmail.com	50600	Edit Delete
EMP1755181263284	Rawal Prema	prerna@gmail.com	30500	Edit Delete

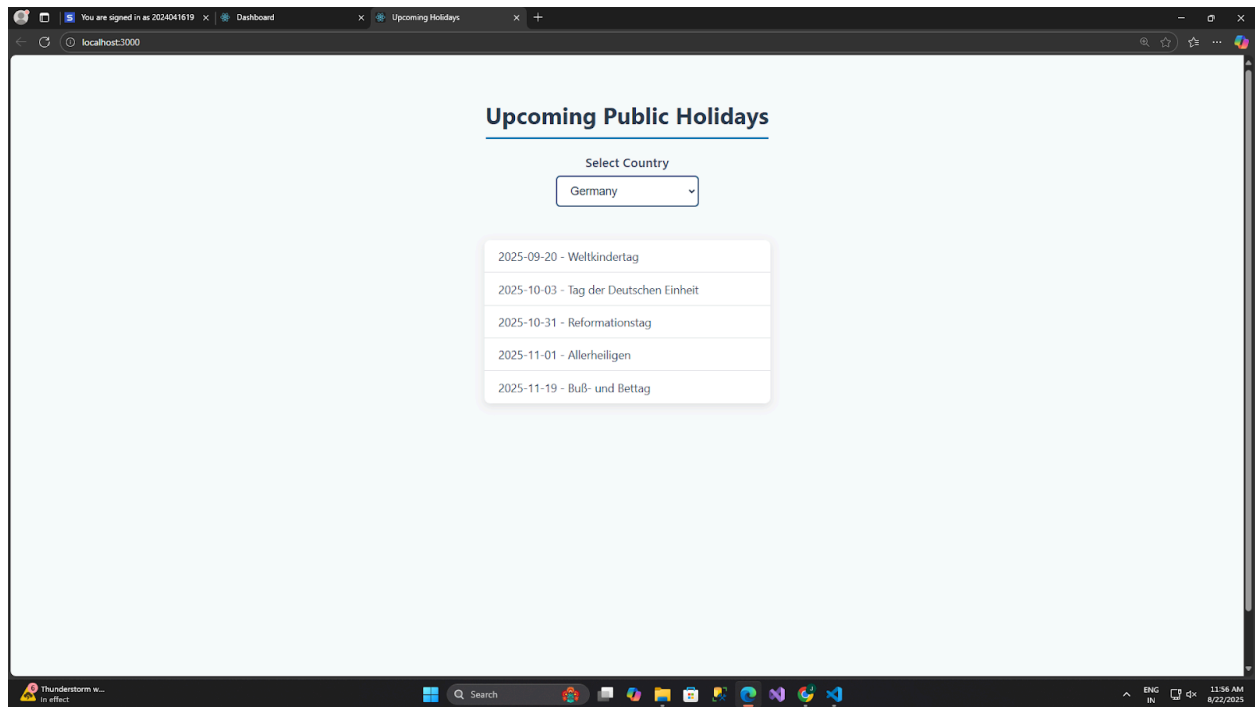


Question-05 : Develop employee site (refer Q4) login with JWT, for employees with mongoose, express and frontend(html,css,javascript/jquery JAM Stack), -Page1) display employee profile . Page2) - Application for leave (fields date, reason, grant yes/no) Add, List - Logout.



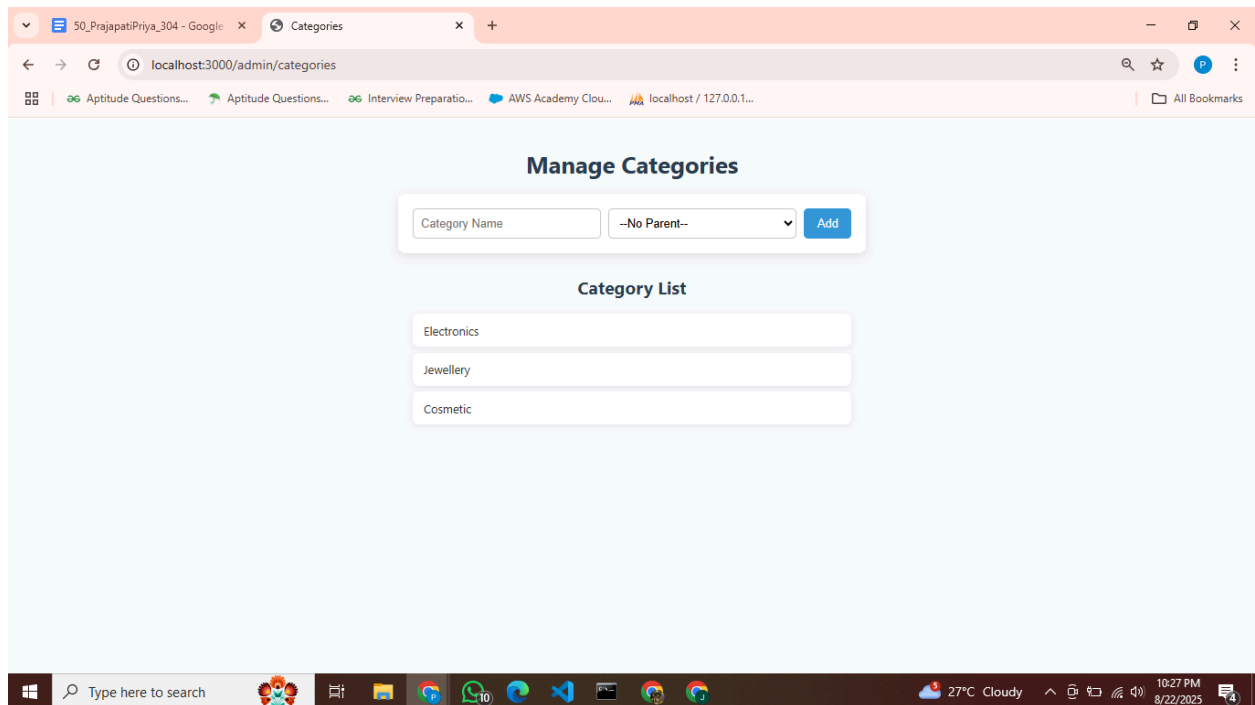


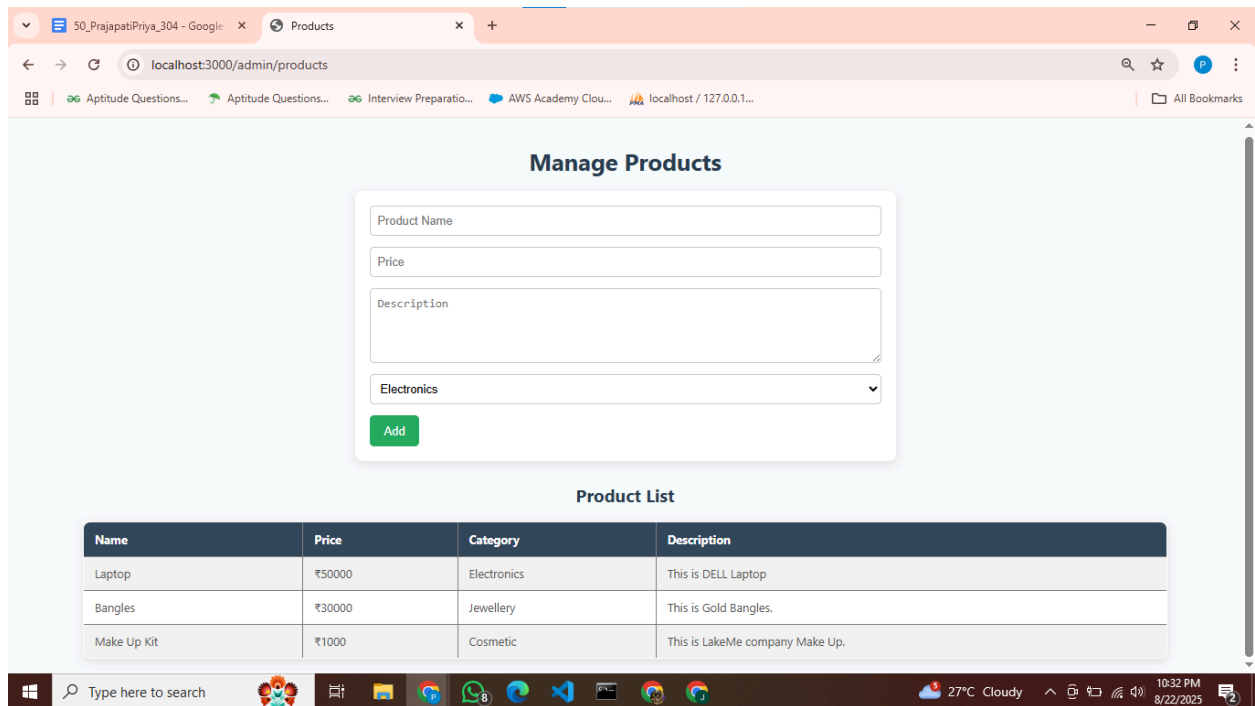
Question-06 : Call any free api for a useful utility from frontend and backend.



Question-07 : Shopping cart with admin site and user site with (2 level) Category and Products.

- **Admin**





- User

