NAME: CHANDRU.V

DEPT: CSE - C

REG.NO: 2127220501303

GIT- https://github.com/chandru-26

DATABASE CREATION - postgressSQL

```
    usrecipies/postgres@PostgreSQL 17

■ V P V No limit ▼
                                                   E II.
Query Query History
1 Query TE TABLE IF NOT EXISTS recipes (
       id SERIAL PRIMARY KEY, continent VARCHAR(255),
                                                    country_state VARCHAR(255),
3
       cuisine VARCHAR(255), title VARCHAR(255),
4
       url TEXT, rating NUMERIC(2,1),
       total_time INT, prep_time INT,
       cook_time INT, description TEXT,
       ingredients JSONB, instructions JSONB,
       nutrients JSONB, serves VARCHAR(255)
  );
```

DB NAME -"usrecipes" with table name recipes



Project creation

Backend folder initialize-"npm init -y"

Installing node modules

- npm install pg
- npm install express
- npm install axios

creating main file"server.js"

connection to database

```
const client = new Client({
    user: 'postgres',
    host: 'localhost',
    database: 'usrecipies',
    password: 'root',
    port: 5432,
});

client.connect();
```

Function to fetch data—insertRecipesFromJson

Where the json is converted to utf8 encoded string and then it is given to a java object. For loop to fetch and insert each data to the database.

SQL injection is prevented by this method.

API ENDPOINT creation:

API-1 to return first 10 entries,

SELECT * FROM recipes LIMIT 10;

Route- http://localhost:3000/api/users

API-2 to display the top 10 highly rated entries

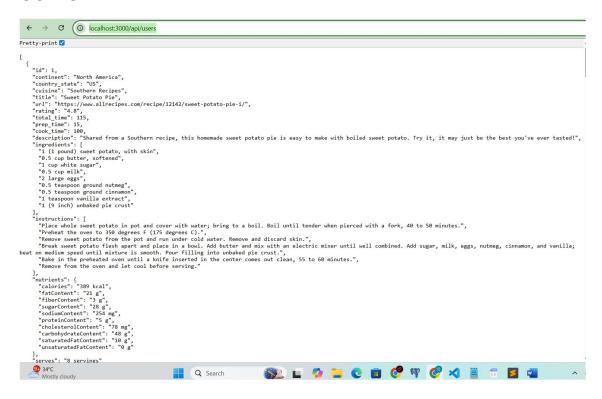
SELECT * FROM recipes WHERE rating IS NOT NULL ORDER BY rating DESC LIMIT 10;

Route- http://localhost:3000/api/usersrating

```
app.get('/api/users', async (req, res) => {
    try {
        const result = await client.query('SELECT * FROM recipes LIMIT 10');
        res.json(result.rows);
    } catch (err) {
        console.error('Error fetching users:', err);
        res.status(500).json({ error: 'Internal server error' });
    }
});

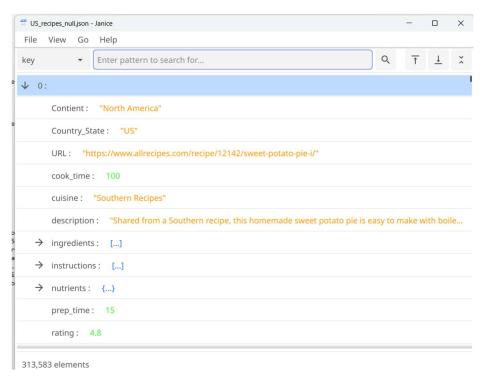
app.get('/api/usersrating', async (req, res) => {
    try {
        const result = await client.query('SELECT * FROM recipes WHERE rating IS NOT NULL ORDER BY rating E res.json(result.rows);
    } catch (err) {
        console.error('Error fetching users:', err);
        res.status(500).json({ error: 'Internal server error' });
    }
});
```

OUTPUT



TOTAL - 8451 ENTRIES

GIT REPO LINKT-- https://github.com/chandru-26/securine



FRONTEND- YET TO COMPLETE

