

ASSIGNMENT 2

NAME: B.AISHWARYA

REGISTER NUMBER: 311519104006

PROJECT TOPIC: CUSTOMER CARE REGISTRY

COLLEGE NAME: MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE

TEAM NUMBER: PNT2022TMID27825

1. Create User table with user email, username, roll number and password

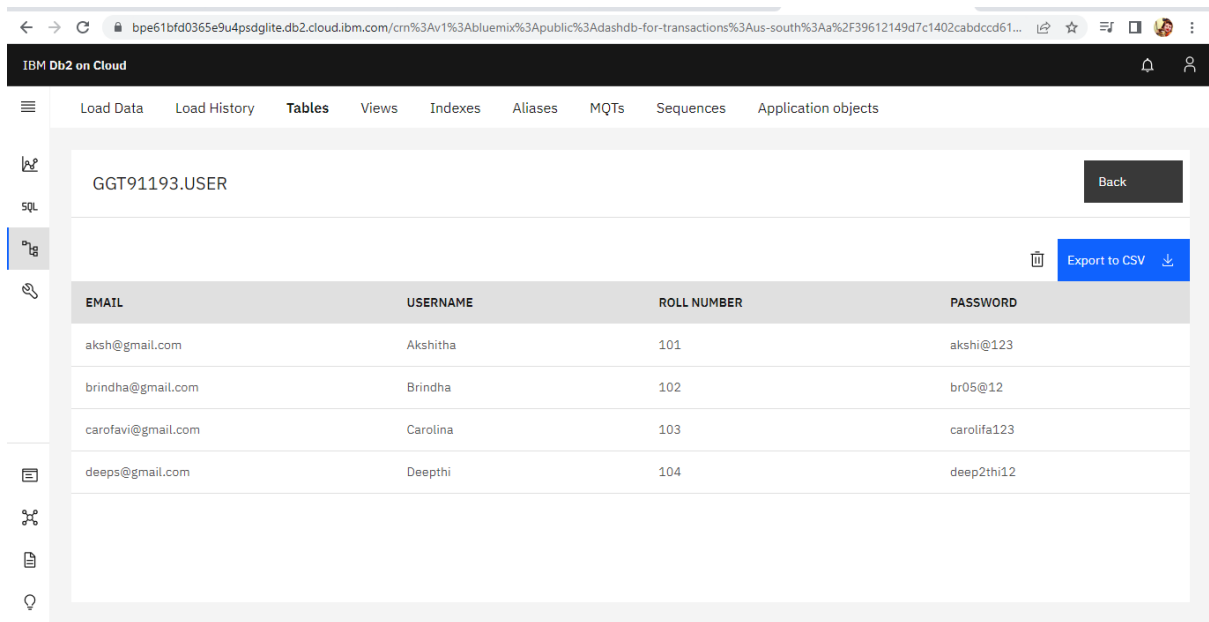
The screenshot shows the IBM Db2 on Cloud interface. The 'Tables' tab is selected, displaying a list of tables. The 'USER' table is selected, and its definition is shown on the right. The table has the following columns:

Name	Data type	Nullable	Length	Scale
EMAIL	VARCHAR	Y	32	0
USERNAME	VARCHAR	Y	32	0
ROLL NUMBER	VARCHAR	Y	32	0
PASSWORD	VARCHAR	Y	32	0

The screenshot shows the IBM Db2 on Cloud interface with the SQL editor open. The SQL script contains four insert statements for the 'USER' table. The execution history shows the script was executed successfully on October 8, 2022, at 1:52:44 PM, with a runtime of 0.035 seconds.

```
1 insert into USER values('aksh@gmail.com','Akshitha',101,'akshi@123');
2 insert into USER values('brindha@gmail.com','Brindha',102,'br05@12');
3 insert into USER values('carofavi@gmail.com','Carolina',103,'carolifa123');
4 insert into USER values('deeps@gmail.com','Deepthi',104,'deep2thi12');
```

Script	Date	Status	Runtime
Untitled - 1	Oct 8, 2022 1:52:44 PM	✓ 4	0.035 s
insert into USER values('aksh@gmail.com','Akshitha',101,'akshi@123');		✓	0.007 s
insert into USER values('brindha@gmail.com','Brindha',102,'br05@12');		✓	0.006 s
insert into USER values('carofavi@gmail.com','Carolina',103,'ca...		✓	0.006 s
insert into USER values('deeps@gmail.com','Deepthi',104,'deep2t...		✓	0.016 s



EMAIL	USERNAME	ROLL NUMBER	PASSWORD
aksh@gmail.com	Akshitha	101	akshi@123
brindha@gmail.com	Brindha	102	br05@12
carofavi@gmail.com	Carolina	103	carolifa123
deeps@gmail.com	Deepthi	104	deep2thi12

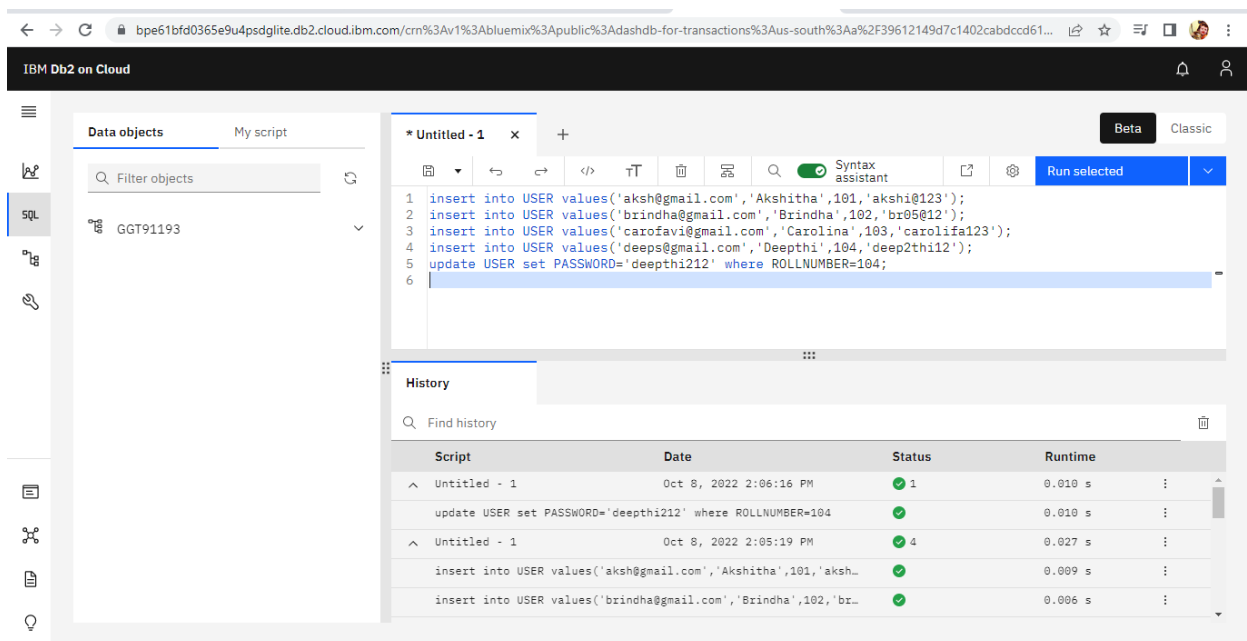
2. Perform UPDATE, DELETE queries with user table

UPDATE:

QUERY:

update USER set PASSWORD='deepthi212' where ROLLNUMBER=104;

OUTPUT:



Script	Date	Status	Runtime
Untitled - 1	Oct 8, 2022 2:06:16 PM	✓ 1	0.010 s
update USER set PASSWORD='deepthi212' where ROLLNUMBER=104		✓	0.010 s
Untitled - 1	Oct 8, 2022 2:05:19 PM	✓ 4	0.027 s
insert into USER values('aksh@gmail.com', 'Akshitha', 101, 'aksh...		✓	0.009 s
insert into USER values('brindha@gmail.com', 'Brindha', 102, 'br...		✓	0.006 s

IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

GGT91193.USER

Back

Export to CSV

EMAIL	USERNAME	ROLLNUMBER	PASSWORD
aksh@gmail.com	Akshitha	101	akshi@123
brindha@gmail.com	Brindha	102	br05@12
carofavi@gmail.com	Carolina	103	carolifa123
deeps@gmail.com	Deepthi	104	deepthi212

DELETE:

QUERY:

delete from USER where ROLLNUMBER=103;

OUTPUT:

IBM Db2 on Cloud

Data objects My script

Filter objects

GGT91193

*Untitled - 1

Beta Classic

Syntax assistant

Run all

```

1 insert into USER values('aksh@gmail.com', 'Akshitha', 101, 'akshi@123');
2 insert into USER values('brindha@gmail.com', 'Brindha', 102, 'br05@12');
3 insert into USER values('carofavi@gmail.com', 'Carolina', 103, 'carolifa123');
4 insert into USER values('deeps@gmail.com', 'Deepthi', 104, 'deepthi212');
5 update USER set PASSWORD='deepthi212' where ROLLNUMBER=104;
6 delete from USER where ROLLNUMBER=103;

```

History

Find history

Script	Date	Status	Runtime
Untitled - 1	Oct 8, 2022 3:02:43 PM	✓ 1	0.008 s
delete from USER where ROLLNUMBER=103		✓	0.008 s

The screenshot shows the IBM Db2 on Cloud web interface. The top navigation bar includes 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' tab is selected, displaying a table named 'GGT91193.USER'. The table has four columns: 'EMAIL', 'USERNAME', 'ROLLNUMBER', and 'PASSWORD'. The data rows are as follows:

EMAIL	USERNAME	ROLLNUMBER	PASSWORD
aksh@gmail.com	Akshitha	101	akshi@123
brindha@gmail.com	Brindha	102	br05@12
deep@gmail.com	Deepthi	104	deepthi212

Additional interface elements include a 'Back' button, an 'Export to CSV' button, and a sidebar with icons for various database operations.

3. Connect python code to DB2

PYTHON FLASK CODE:

```
from flask import Flask,render_template, request,redirect,url_for,session

import ibm_db

import re

app=Flask(__name__)

app.secret_key='a'

conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=b1bc1829-6f45-4cd4-
bef4-
10cf081900bf.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32304;SEC
URITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=ggt91193;PW
D=tL4Jy1DoL5XU6d3E","")

@app.route('/')

def home():

    return render_template('details.html')

@app.route('/register',methods=['GET','POST'])

def register():
```

```
global userid

msg=""

if request.method=='POST':

    username=request.form['NAME']

    email=request.form['EMAIL']

    mobno=request.form['MOBILENUMBER']

    insert_sql="INSERT INTO DETAILS VALUES(?,?,?)"

    prep_stmt=ibm_db.prepare(conn,insert_sql)

    ibm_db.bind_param(prepare_stmt,1,username)

    ibm_db.bind_param(prepare_stmt,2,email)

    ibm_db.bind_param(prepare_stmt,3,mobno)

    ibm_db.execute(prepare_stmt)

    return render_template('display.html')

else:

    msg='Registration Unsuccessful! Please try again later!'

    return render_template('details.html')

if __name__=='__main__':

    app.run(debug=True)
```

OUTPUT:

←↻🏠📌🔍localhost:5000/register

A🔖🌟🔍🔍👤⋮

REGISTRATION FORM

USERNAME:

Krishna

EMAIL:

kr@gmail.com

MOBILE NUMBER:

9876543108

SUBMIT

←↻🏠📌🔍localhost:5000/register

A🔖🌟🔍🔍👤⋮

Hello

←↻🏠📌🔍https://bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/cm%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F39612149d7c1402cabdccc61efa...

A🔖🌟🔍🔍👤⋮

TBM Db2 on Cloud

Load DataLoad History**Tables**ViewsIndexesAliasesMQTsSequencesApplication objects

🔍SQL🔍🔍🔍

GGT91193.DETAILS

Back

🗑️Export to CSV📄

USERNAME	EMAIL	MOBNO
Aishwarya	aishugbk@gmail.com	+919952969876
Krishna	kr@gmail.com	9876543108
aaa	aa@123	1234567890

4. **Create a Flask app with registration page, login page and welcome page. By default, load the registration page once the user enters all the fields store data in database and navigate to login page, authenticate username and password. If the user is valid, show the welcome page**

FLASK CODE:

```
from flask import Flask,redirect,render_template,request,url_for,session

import ibm_db

import re

app=Flask(__name__)

app.secret_key='a'

conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=b1bc1829-6f45-4cd4-bef4-10cf081900bf.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32304;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=gg91193;PWD=tL4Jy1DoL5XU6d3E","")

@app.route('/')

def home():

    return render_template('registration.html')

@app.route('/register',methods=['GET','POST'])

def register():

    global userid

    msg=""

    if request.method=='POST':

        name=request.form['name']

        email=request.form['mail']

        mobno=request.form['mob']

        username=request.form['user']
```

```

        pwd=request.form['pwd']

        insert_sql="INSERT INTO REGISTER VALUES(?,?,?,?)"

        prep_stmt=ibm_db.prepare(conn,insert_sql)

        ibm_db.bind_param(prepare_stmt,1,name)

        ibm_db.bind_param(prepare_stmt,2,email)

        ibm_db.bind_param(prepare_stmt,3,mobno)

        ibm_db.bind_param(prepare_stmt,4,username)

        ibm_db.bind_param(prepare_stmt,5,pwd)

        ibm_db.execute(prepare_stmt)

        msg='Registered successfully!'

        return render_template('login.html',msg=msg)

    else:

        msg='Registration Unsuccessful! Please try again later!'

        return render_template('registration.html',msg=msg)

@app.route('/login',methods=['GET','POST'])

def login():

    global userid

    msg=""

    if request.method=='POST':

        username=request.form['user']

        pwd=request.form['pwd']

        sql="SELECT * FROM REGISTER WHERE UNAME=? AND PASS=?"

        stmt=ibm_db.prepare(conn,sql)

        ibm_db.bind_param(stmt,1,username)

```



```
    ibm_db.bind_param(stmt,2,pwd)

    ibm_db.execute(stmt)

    acc=ibm_db.fetch_assoc(stmt)

    if acc:

        session['loggedin']=True

        msg='Login successful!'

        return render_template('welcome.html',msg=msg)

    else:

        msg="Invalid username/password!"

        return redirect(url_for('login',msg=msg))

if __name__=='__main__':

    app.run(debug=True)
```

REGISTRATION.HTML:

```
<!DOCTYPE html>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset="UTF-8">

<meta name="viewport" content="width=device-width,initial-scale=1">

<meta http-equiv="X-UA-Compatible" content="ie=edge">

<title>SIGN UP</title>

<style>

    body,html{

        height: 100%;

        margin: 0;
```

```
}

*{

    box-sizing: border-box;

}

.bck{

    background-image: url("https://images.indianexpress.com/2020/07/Rail-
tunnel.jpg");

    height: 100%;

    background-position: center;

    background-repeat: no-repeat;

    background-size: cover;

    filter: blur(12px);

    -webkit-filter: blur(12px);

}

.bckbox {

    background-color: rgb(0,0,0);

    background-color: rgba(0,0,0, 0.09);

    color: white;

    font-weight: bolder;

    border: 1px solid #f1f1f1;

    position: absolute;

    top: 50%;

    left: 50%;

    transform: translate(-50%, -50%);

    z-index: 2;
```

```
        width: 60%;  
        height:80%;  
        padding: 35px;  
        text-align: left;  
        font-size:25px;  
    }  
    .bcktext{  
        position: absolute;  
        top:20%;  
        left:20%;  
    }  
    .btn{  
        background-color:#ffffcc;  
        height:10%;  
        border-radius:20px;  
        left:70%;  
        width:90%;  
        font-weight:bold;  
        font-size:15px;  
    }  
    .acbtn{  
        position:absolute;  
        bottom:8px;  
        right:16px;
```

[illegible]


```
    }

</script>

<script>

function myFunction(){

if( document.f1.name.value == "" ) {

    alert( "Please provide your name!" );

    document.f1.name.focus() ;

    return false;

}

if( document.f1.mail.value == "" ) {

    alert( "Please provide your Email!" );

    document.f1.mail.focus() ;

    return false;

}

if( document.f1.mob.value == "" || isNaN( document.f1.mob.value ) ) {

    alert( "Please provide mobile number." );

    document.f1.mob.focus() ;

    return false;

}

if( document.f1.user.value == "-1" ) {

    alert( "Please provide your username" );

    document.f1.user.focus()

    return false;

}
```

```
    }

    if( document.f1.pwd.value == "" ) {

        alert( "Please provide your password" );

        document.f1.pwd.focus()

        return false;

    }

    if( document.f1.cpwd.value == "" ) {

        alert( "Please provide your confirmation password" );

        document.f1.cpwd.focus()

        return false;

    }

    if( document.f1.cpwd.value != document.f1.pwd.value ) {

        alert( "Password mismatch!" );

        document.f1.cpwd.focus()

        return false;

    }

}

}

</script>

</form>

</body>

</html>
```

LOGIN.HTML:

```
<!DOCTYPE html>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset="UTF-8">

<meta name="viewport" content="width=device-width,initial-scale=1">

<meta http-equiv="X-UA-Compatible" content="ie=edge">

<title>LOGIN</title>

<style>

body,html{

    height: 100%;

    margin: 0;

    font-family:Arial,Helvetica,sans-serif;

}

*{

    box-sizing:border-box;

}

.box{

background-image:url("https://images.railyatri.in/ry_images_prod/Homepage-

BannerNew-1592207921.jpg");

    height: 100%;

    background-position: center;

    background-repeat: no-repeat;

    background-size: cover;

    filter: blur(4px);

    -webkit-filter: blur(4px);
```



```
}

input[type=text], input[type=password] {

    width: 100%;

    padding: 12px 20px;

    margin: 8px 0;

    display: inline-block;

    border: 1px solid #ccc;

    box-sizing: border-box;

}

.box-text{

text-align:center;

margin:24px 0 12px 0;

position:relative;

}

img.usr {

    width: 40%;

    border-radius: 50%;

}

.box-inner{

padding:16px;

}

.boxb {

    background-color: rgb(0,0,0);

    background-color: rgba(0,0,0, 0.09);
```

```
color: white;

font-weight: bolder;

border: 1px solid #f1f1f1;

position: absolute;

top: 50%;

left: 80%;

transform: translate(-50%, -50%);

z-index: 2;

width: 30%;

height:80%;

padding: 35px;

text-align: left;

font-size:25px;
```

```
}
```

```
.box-btn{
```

```
text-align:center;
```

```
}
```

```
.btn{
```

```
background-color:#ffffcc;
```

```
height:20%;
```

```
border-radius:30px;
```

```
left:50%;
```

```
width:50%;
```

```
font-weight:bold;
```

```
        font-size:15px;
    }

</style>

</head>

<body>

<div class="box">

</div>

<div class="boxb">

<div class="box-text">



</div>

<div class="box-inner">

<form action="/login" method="post">

<label style="color:white;"><b>USERNAME :</b></label>

<input type="text" placeholder="Enter Username" name="user" style="font-size:16px;"
required><br><br>

<label style="color:white;"><b>PASSWORD :</b></label>

<input type="password" placeholder="Enter Password" name="pwd" style="font-
size:16px;" maxlength="8" required><br><br>

<div class="box-btn">

<input type="submit" value="SUBMIT">

</div>

</form>

</div>
```

</div>

</body>

</html>

WELCOME.HTML:

<!DOCTYPE html>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset="UTF-8">

<meta name="viewport" content="width=device-width,initial-scale=1">

<meta http-equiv="X-UA-Compatible" content="ie=edge">

<title>WELCOME</title>

<style>

body,html{

height: 100%;

margin: 0;

font-family:Arial,Helvetica,sans-serif;

}

*{

box-sizing:border-box;

}

.box{

background-

image:url("https://th.bing.com/th/id/OIP.gpB3iisxkXevApFmK9deDAHaeY?pid=ImgDet&rs=1");

height: 100%;

```
background-position: center;

background-repeat: no-repeat;

background-size: cover;

filter: blur(0px);

-webkit-filter: blur(0px);

}

</style>

</head>

<body>

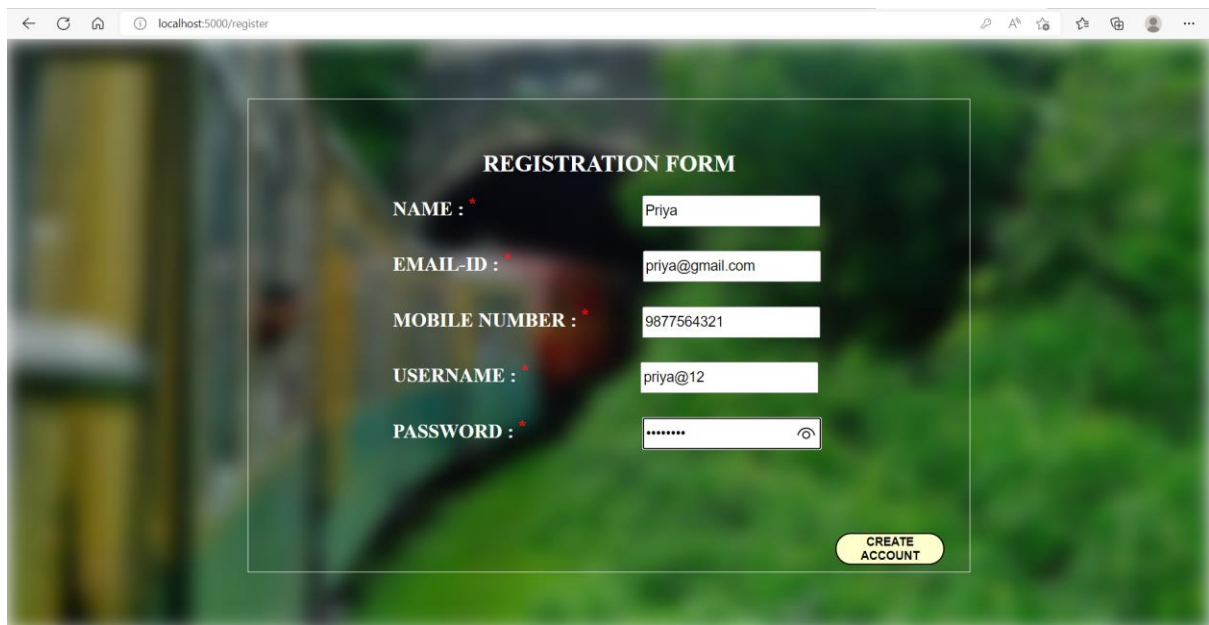
<div class="box">

</div>

</body>

</html>
```

OUTPUT:



← ↻ 🏠 ⓘ localhost:5000/register 🔍 🌐 ⚙️ ⋮

REGISTRATION FORM

NAME : *

EMAIL-ID : *

MOBILE NUMBER : *

USERNAME : *

PASSWORD : * 🔍

[CREATE ACCOUNT](#)

IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects


GGT91193.REGISTER

Back

Export to CSV

NAME	EMAIL	MOBNO	UNAME	PASS
Akshay	akshay@gmail.com	9000000000	akshay@12	Akshay@1
Akshaya	akku@gmail.com	9080706050	akku@12	Aksh@12
Bala	balkitta@gmail.com	9967891234	balkitta@12	bals@12
Govinda	govinda@gmail.com	9887654321	govinda@12	Govind@1
Kitchu	kitchu@gmail.com	9876543108	kisu@12	Kichu@12
Krishna	kr@gmail.com	9876543108	kr@108	Krish@12
Padma	padhu@gmail.com	9765432100	padhu@12	padma@12
Priya	priya@gmail.com	9877564321	priya@12	priya@12

localhost:5000/register



USERNAME :

priya@12

PASSWORD :

priya@12

SUBMIT

