

Project Development - Delivery of Sprint-2

Project Domain	Cloud Application Development
Project Title	News Tracker Application
Team ID	PNT2022TMID44401
Date	05 th Nov 2022

Sprint-2 Deliverables

- 1.Created forgot account credentials page
2. Created newaccount page on signup
3. Developed flask app to connect with IBM DB2
4. Integrated code to send username and password as mail on account creation and forgot login credentials.

Figure-1: Snapshot of forgot username/password Page

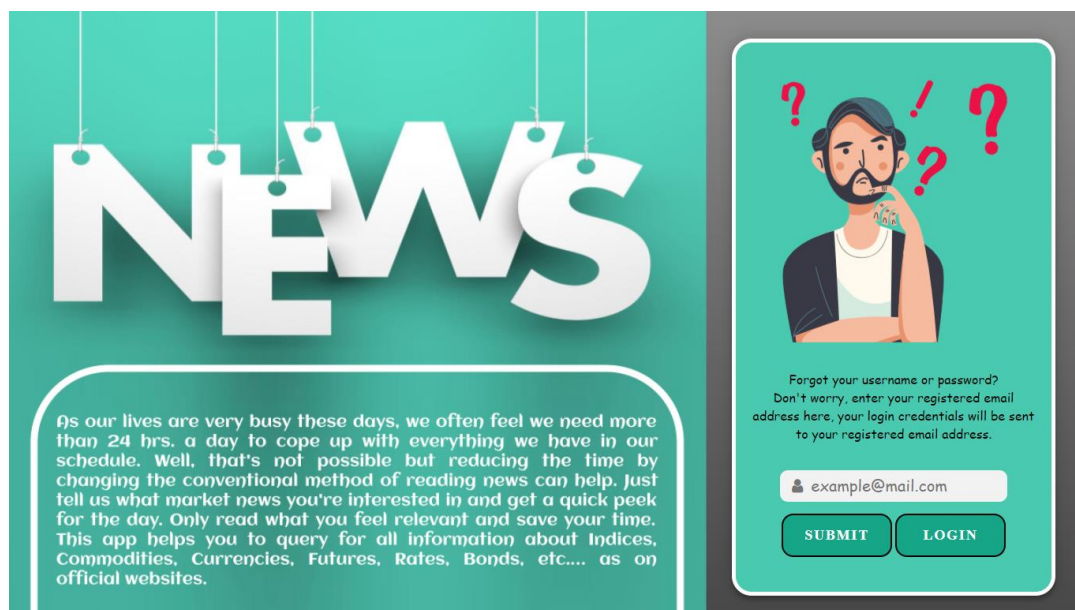


Figure-2: Snapshot of successfully creation of new account page

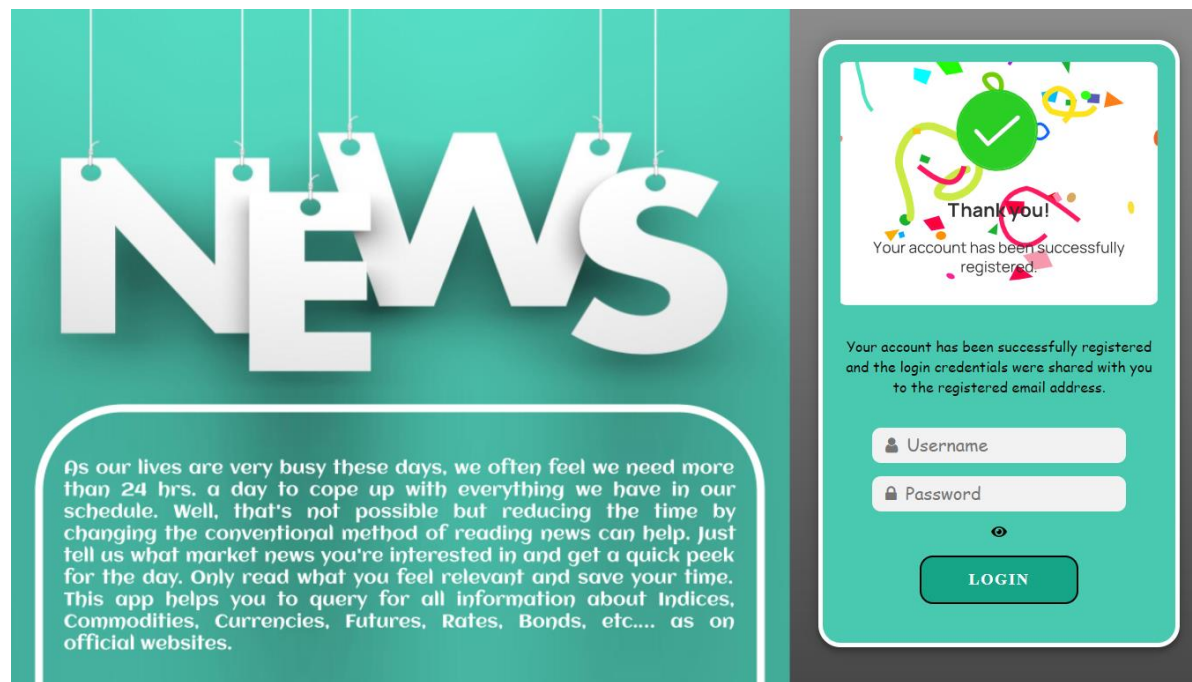


Figure-3: Email received after account creation

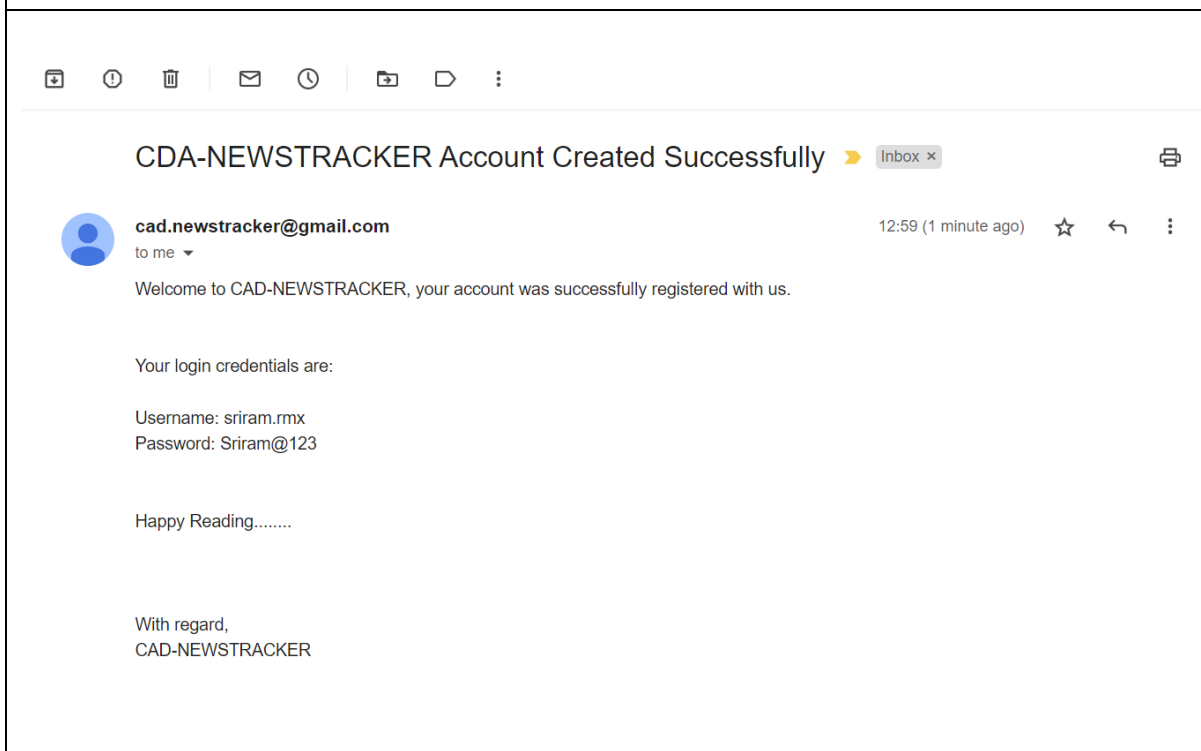
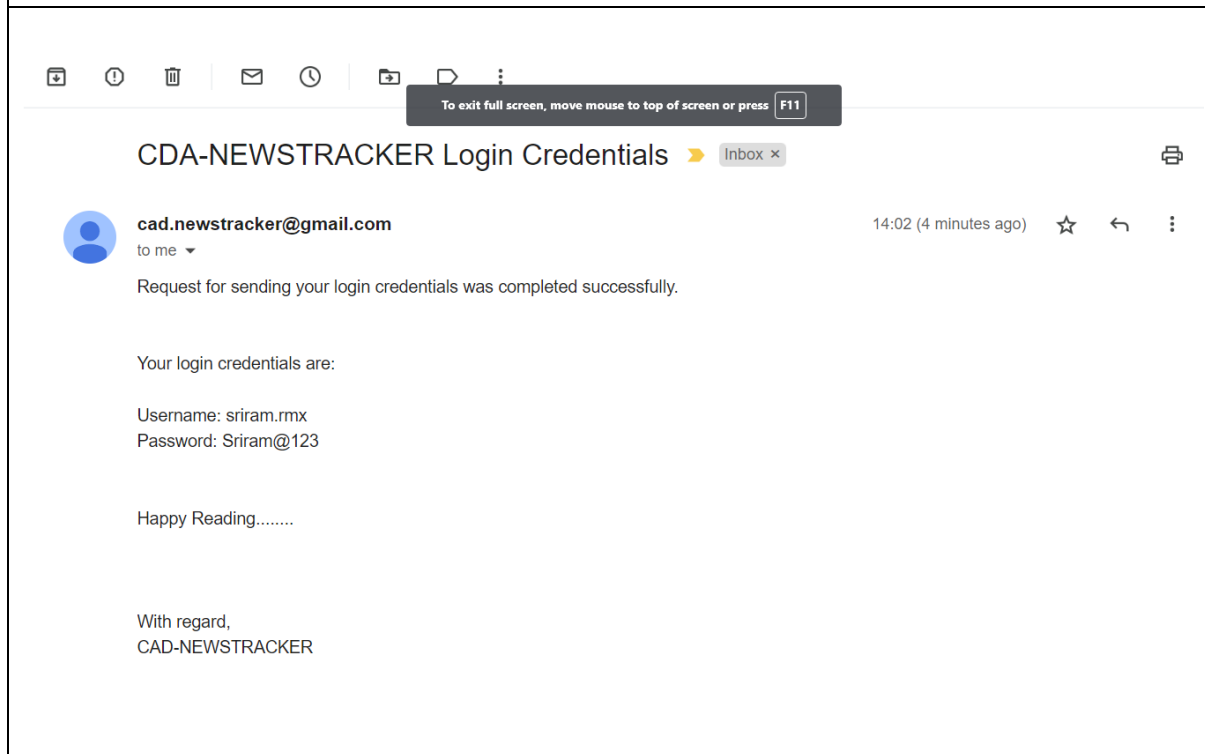


Figure-4: Email received after forgot username/password request.



Source Codes

app.py:

```
from flask import Flask,render_template,request,redirect,url_for,session
from flask_mail import Mail, Message
import ibm_db
import re
app=Flask(__name__)
mail = Mail(app)
app.config['MAIL_SERVER']='smtp.gmail.com'
app.config['MAIL_PORT'] = 465
app.config['MAIL_USERNAME'] = 'cad.newstracker@gmail.com'
app.config['MAIL_PASSWORD'] = '*****'
app.config['MAIL_USE_TLS'] = False
app.config['MAIL_USE_SSL'] = True
mail = Mail(app)
app.secret_key = 'a'
conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=ba99a9e6-d59e-4883-8fc0-
d6a8c9f7a08f.c1ogj3sd0tgu0lqde00.databases.appdomain.cloud;PORT=31321;SECURIT
Y=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=rkk02660;PWD=MjT4Fn
HjLsN6rpbn";'','')

@app.route('/')
```

```

def home():
    return render_template('login.html')

@app.route('/signup')
def signup():
    return render_template('signup.html')

@app.route('/forgot')
def forgot():
    return render_template('forgot.html')

@app.route('/login',methods=['GET','POST'])
def login():
    global userid
    msg=' '
    if request.method=='POST':
        username = request.form['username']
        password = request.form['password']
        sql = "SELECT * FROM NTAAC WHERE username = ? AND password = ?"
        stmt = ibm_db.prepare(conn,sql)
        ibm_db.bind_param(stmt,1,username)
        ibm_db.bind_param(stmt,2,password)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        print(account)
        if account:
            return render_template('dashboard.html')
        else:
            return render_template('login.html')

@app.route('/register',methods=['GET','POST'])
def register():
    if request.method=='POST':
        fullname = request.form['fullname']
        username = request.form['username']
        email = request.form['email']
        password = request.form['password']
        queryone = "SELECT * FROM NTAAC WHERE username = ? "
        stmtone = ibm_db.prepare(conn,queryone)
        ibm_db.bind_param(stmtone,1,username)
        ibm_db.execute(stmtone)
        userexist = ibm_db.fetch_assoc(stmtone)
        querytwo = "SELECT * FROM NTAAC WHERE email = ? "
        stmttwo = ibm_db.prepare(conn,querytwo)
        ibm_db.bind_param(stmttwo,1,email)
        ibm_db.execute(stmttwo)
        emailexist = ibm_db.fetch_assoc(stmttwo)
        if emailexist:
            return render_template('signup.html')
        if userexist:

```

```

        return render_template('signup.html')
    else:
        insert_sql="INSERT INTO NTAAC VALUES(?, ?, ?, ?)"
        prep_stmt=ibm_db.prepare(conn,insert_sql)
        ibm_db.bind_param(prepare_stmt,1,fullname)
        ibm_db.bind_param(prepare_stmt,2,email)
        ibm_db.bind_param(prepare_stmt,3,username)
        ibm_db.bind_param(prepare_stmt,4,password)
        ibm_db.execute(prepare_stmt)
        msg = Message('CAD-NEWSTRACKER Account Created Successfully',sender
='cad.newstracker@gmail.com',recipients = [email])
        msg.body = ("Welcome to CAD-NEWSTRACKER, your account was
successfully registered with us."+"\n\n\n"+"Your login credentials are:"+"\n\n"+"Username:
"+username+"\n"+"Password:
"+password+"\n\n\n"+"Happy
Reading....."+"\n\n\n\n"+"With regard,"+"\n"+"CAD-NEWSTRACKER")
        mail.send(msg)
        return render_template('newaccount.html')

@app.route('/recover',methods=['GET','POST'])
def recover():
    if request.method=='POST':
        email = request.form['email']
        query = "SELECT * FROM NTAAC WHERE email = ? "
        stmt = ibm_db.prepare(conn,query)
        ibm_db.bind_param(stmt,1,email)
        ibm_db.execute(stmt)
        emailexist = ibm_db.fetch_assoc(stmt)
        if emailexist:
            queryone=("SELECT * FROM NTAAC WHERE EMAIL =?")
            stmtone = ibm_db.prepare(conn,queryone)
            ibm_db.bind_param(stmtone,1,email)
            ibm_db.execute(stmtone)
            credentials = ibm_db.fetch_assoc(stmtone)
            username=str(credentials['USERNAME'])
            password=str(credentials['PASSWORD'])
            msg = Message('CAD-NEWSTRACKER Login Credentials',sender
='cad.newstracker@gmail.com',recipients = [email])
            msg.body = ("Request for sending your login credentials was completed
successfully."+"\n\n\n"+"Your login credentials are:"+"\n\n"+"Username:
"+username+"\n"+"Password:
"+password+"\n\n\n"+"Happy
Reading....."+"\n\n\n\n"+"With regard,"+"\n"+"CAD-NEWSTRACKER")
            mail.send(msg)
            return render_template('login.html')
        else:
            return render_template('forgot.html')

if __name__ == '__main__':
    app.run(host='0.0.0.0', port=88, debug=True, threaded=True)

```

forgot.html:

```
<html>

<head>

<title>FORGOT</title>

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<meta charset="utf-8">

<link rel="stylesheet" type="text/css" href="{ { url_for('static', filename='pages.css') } }">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">

<link href='https://fonts.googleapis.com/css?family=Titillium+Web:400,300,600'
rel='stylesheet' type='text/css'>

<link href='https://fonts.googleapis.com/css?family=Titillium+Web:400,300,600'
rel='stylesheet' type='text/css'>

<script src="https://unpkg.com/@lottiefiles/lottie-player@latest/dist/lottie-
player.js"></script>

<link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.15.1/css/all.css"
integrity="sha384-
vp86vTRFVJgpjF9jiIGPEEqYqlDwgyBgEF109VFjmqGmIY/Y4HV4d3Gp2irVfcrp"
crossorigin="anonymous">

</head>

<body class="body">

<div class="on-screen">

<div class="form">

<form action="/recover" method="POST">

<lottie-player src="https://assets6.lottiefiles.com/private_files/lf30_GjhcdO.json"
speed="1" style="justify-content: center;" loop autoplay></lottie-player><br>

<p style="font-family: 'Pacifico', cursive;">Forgot your username or
password?<br>Don't worry, enter your registered email address here, your login credentials
will be sent to your registered email address.</p><br>

<input name="email" type="text" placeholder="&#xf007; example@mail.com"
required />

<button style="width:140px" type="submit">SUBMIT</button>
```

```
<button                                style="width:140px"                                type="button"
onclick="window.location.href='/'">LOGIN</button>

<p class="message"></p>

</form>

</div>

</div>

</body>

</html>
```

newaccount.html

```
<html>

<head>

<title>LOGIN</title>

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<meta charset="utf-8">

<link rel="stylesheet" type="text/css" href="{ { url_for('static', filename='pages.css') } }">
<link          rel="stylesheet"          href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">

<link          href='https://fonts.googleapis.com/css?family=Titillium+Web:400,300,600'
rel='stylesheet' type='text/css'>

<link          href='https://fonts.googleapis.com/css?family=Titillium+Web:400,300,600'
rel='stylesheet' type='text/css'>

<script          src="https://unpkg.com/@lottiefiles/lottie-player@latest/dist/lottie-
player.js"></script>

<link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.15.1/css/all.css"
integrity="sha384-
vp86vTRFVJgpjF9jiIGPEEqYqlDwgyBgEF109VFjmqGmIY/Y4HV4d3Gp2irVfcrp"
crossorigin="anonymous">

</head>

<body class="body">

<div class="on-screen">
```

```
<div class="form">

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

    <lottie-player src="https://assets2.lottiefiles.com/private_files/lf30_3ghvm6sn.json"
speed="1" style="justify-content: center;" loop autoplay></lottie-player><br>

    <p style="font-family: 'Pacifico', cursive;">Your account has been successfully
registered and the login credentials were shared with you to the registered email
address.</p><br>

    <input name="username" type="text" placeholder="&#xf007; Username" required />

    <input name="password" type="password" id="password" placeholder="&#xf023;
Password" required/><br>

    <i class="fas fa-eye" onclick="show()"></i><br><br>

    <button type="submit">LOGIN</button>

    <p class="message"></p>

  </form>

</div>

</div>

<script>
function show()
{
  var password = document.getElementById("password");
  var icon = document.querySelector(".fas")
  if(password.type === "password")
  {
    password.type = "text";
  }
  else
  {
    password.type = "password";
  }
};
</script>

</body>

</html>
```


pages.css:

```
@import url(https://fonts.googleapis.com/css?family=Roboto:300);

.body
{
    background-image: url('https://ibm-news-tracker.s3.jp-tok.cloud-object-storage.appdomain.cloud/login-signup-backgroud-image.png');
    background-repeat: no-repeat;
    background-size: cover;
}

.on-screen
{
    width: 300px;
    padding: 2% 0 0;
    margin: auto;
}

.form
{
    position: absolute;
    border-radius: 25px;
    right: 40px;
    border: 5px solid white;
    z-index: 1;
    background: #48c9b0;
    max-width: 360px;
    margin: 0 auto 80px;
    padding: 20px;
    text-align: center;
    box-shadow: 0 0 20px 0 rgba(0, 0, 0, 0.2), 0 5px 5px 0 rgba(0, 0, 0, 0.24);
}

.form input
{
    font-family: FontAwesome, "Pacifico", cursive;
    outline: 0;
    background: #f2f2f2;
    width: 80%;
    height: 40px;
    border: 0;
    margin: 0 0 15px;
    padding: 15px;
    box-sizing: border-box;
    font-size: 20px;
    border-radius: 10px;
}

.form button
{

```

```
font-family: 'Merriweather', serif;
font-size: 18px;
font-weight: bold;
letter-spacing: .1em;
outline: 0;
background: #17a588;
width: 50%;
border: 5px;
border-radius: 15px;
margin: 0px 0px 8px;
padding: 15px;
color: #FFFFFF;
-webkit-transition: all 0.3 ease;
transition: all 0.3 ease;
cursor: pointer;
transition: all 0.2s;
}

.form button:hover, .form button:focus
{
    background: #148f77;
    box-shadow: 0 5px 10px rgba(0, 0, 0, 0.2);
    transform: translateY(-4px);
}

.form button:active
{
    transform: translateY(2px);
    box-shadow: 0 2.5px 5px rgba(0, 0, 0, 0.2);
}

.form .message
{
    margin: 6px 6px;
    color: #808080;
    font-size: 11px;
    text-align: center;
    font-weight: bold;
    font-style: normal;
}

.form .message a
{
    color: #FFFFFF;
    text-decoration: none;
    font-size: 13px;
}

.form .register-form
{
    display: none;
}
```

```
}

.container
{
  position: relative;
  z-index: 1;
  max-width: 300px;
  margin: 0 auto;
}

.container:before, .container:after
{
  content: "";
  display: block;
  clear: both;
}

.container .info
{
  margin: 50px auto;
  text-align: center;
}

.container .info h1
{
  margin: 0 0 15px;
  padding: 0;
  font-size: 36px;
  font-weight: 300;
  color: #1a1a1a;
}

.container .info span
{
  color: #4d4d4d;
  font-size: 12px;
}

.container .info span a
{
  color: #000000;
  text-decoration: none;
}

.container .info span .fa
{
  color: #EF3B3A;
}

body
```

```
{
background: #76b852; /* fallback for old browsers */
background: -webkit-linear-gradient(right, #76b852, #8DC26F);
background: -moz-linear-gradient(right, #76b852, #8DC26F);
background: -o-linear-gradient(right, #76b852, #8DC26F);
background: linear-gradient(to left, #76b852, #8DC26F);
font-family: "Roboto", sans-serif;
-webkit-font-smoothing: antialiased;
-moz-osx-font-smoothing: grayscale;
}
```