

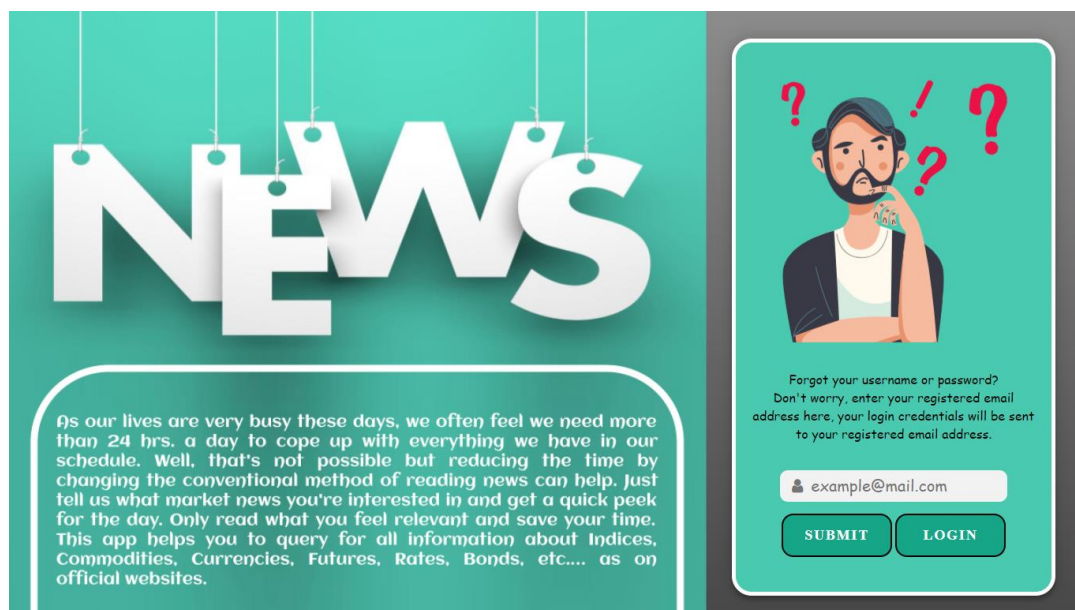
## ***Project Development - Delivery of Sprint-2***

<b>Project Domain</b>	Cloud Application Development
<b>Project Title</b>	News Tracker Application
<b>Team ID</b>	PNT2022TMID44401
<b>Date</b>	05 <sup>th</sup> Nov 2022

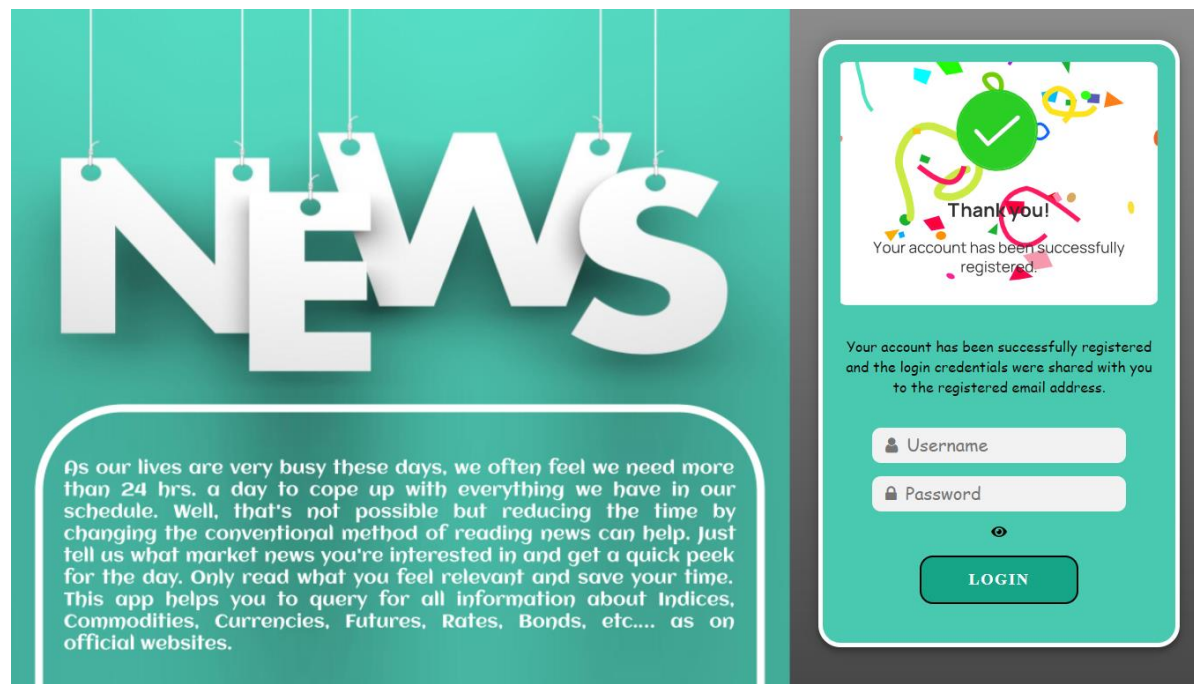
### ***Sprint-2 Deliverables***

- 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.

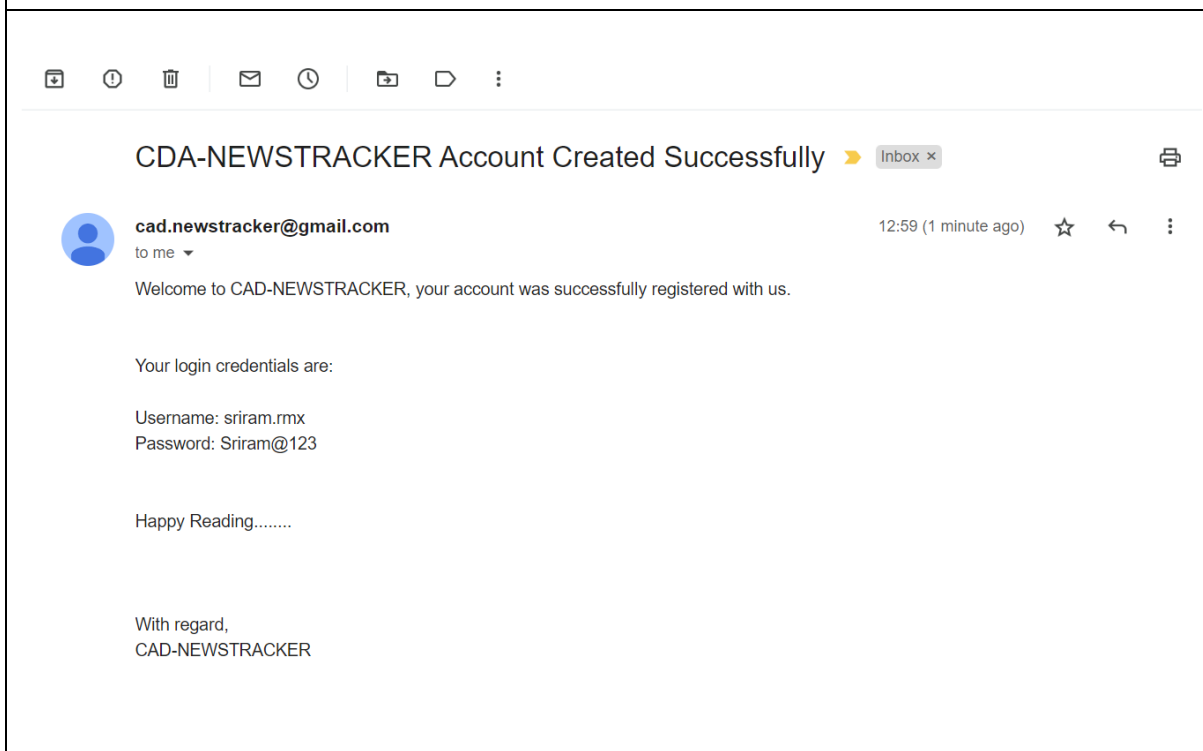
***Figure-1: Snapshot of forgot username/password Page***



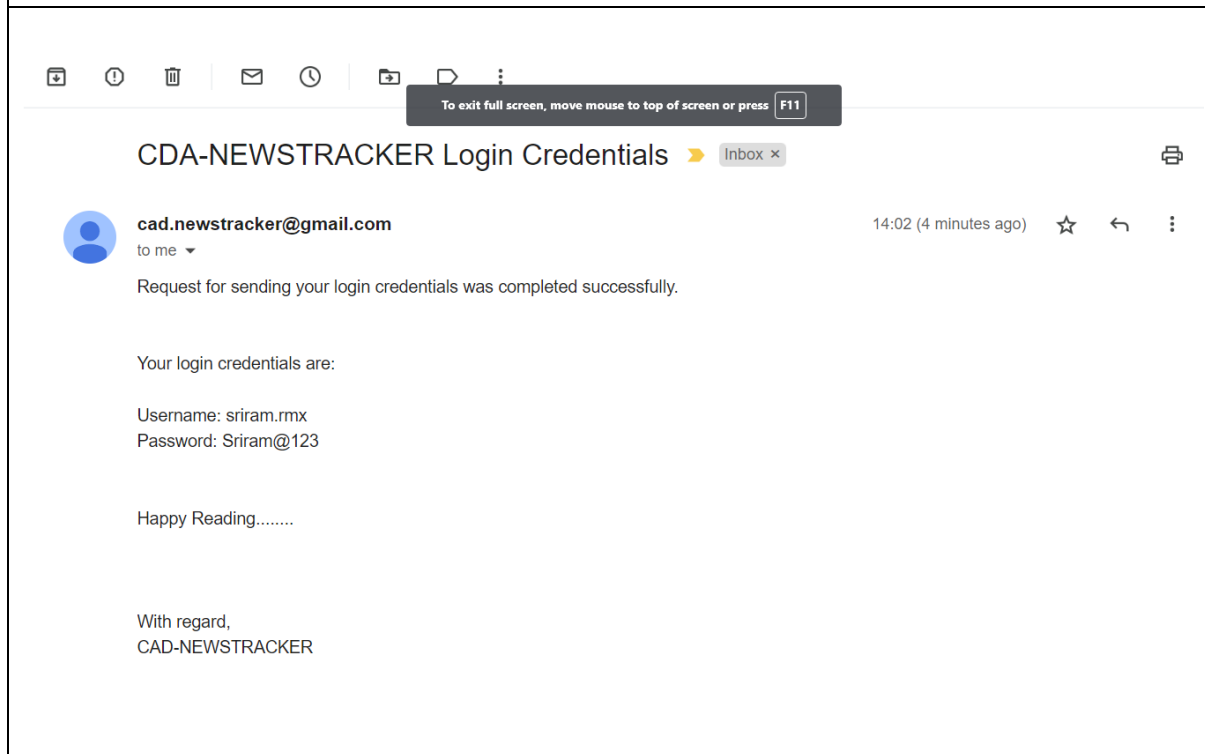
**Figure-2:** Snapshot of successfully creation of new account page



**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=*****;PWD=*****
*****',';')
@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>
sss
```