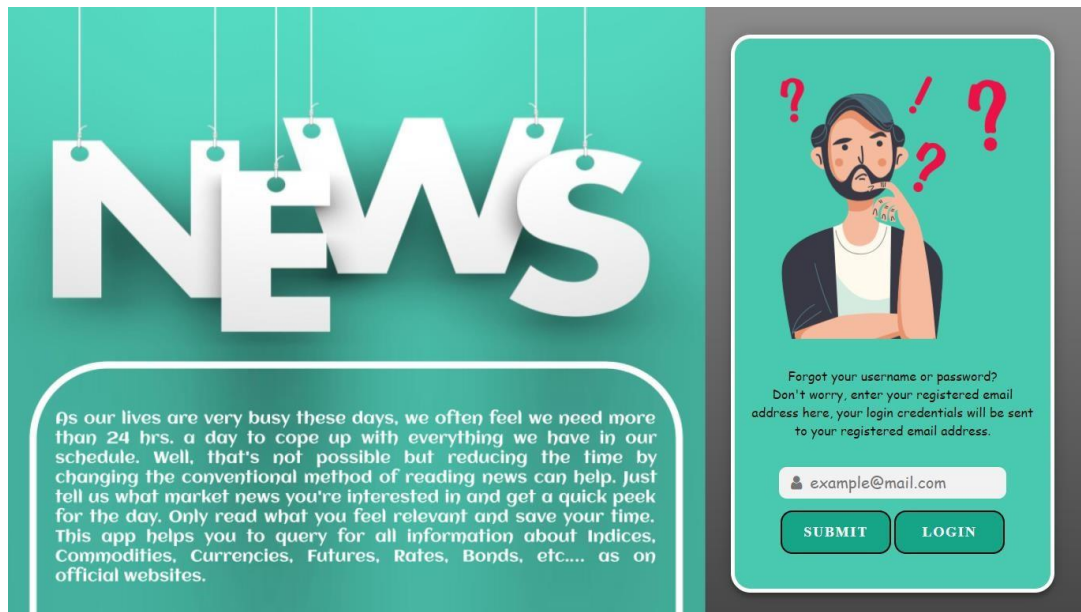# *Project Development - Delivery of Sprint-2*

Project Domain	Cloud Application Development
Project Title	News Tracker Application
Team ID	PNT2022TMID44585
Date	19th Nov 2022

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

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-2: Snapshot of successfully creation of new account page

CDA-NEWSTRACKER Account Created Successfully ➤ Inbox ×

cad.newstracker@gmail.com   12:59 (1 minute ago) ☆ ↩ ⋮
to me ▾

Welcome to CAD-NEWSTRACKER, your account was successfully registered with us.

Your login credentials are:

Username: sriram.rmx
Password: Sriram@123

Happy Reading........

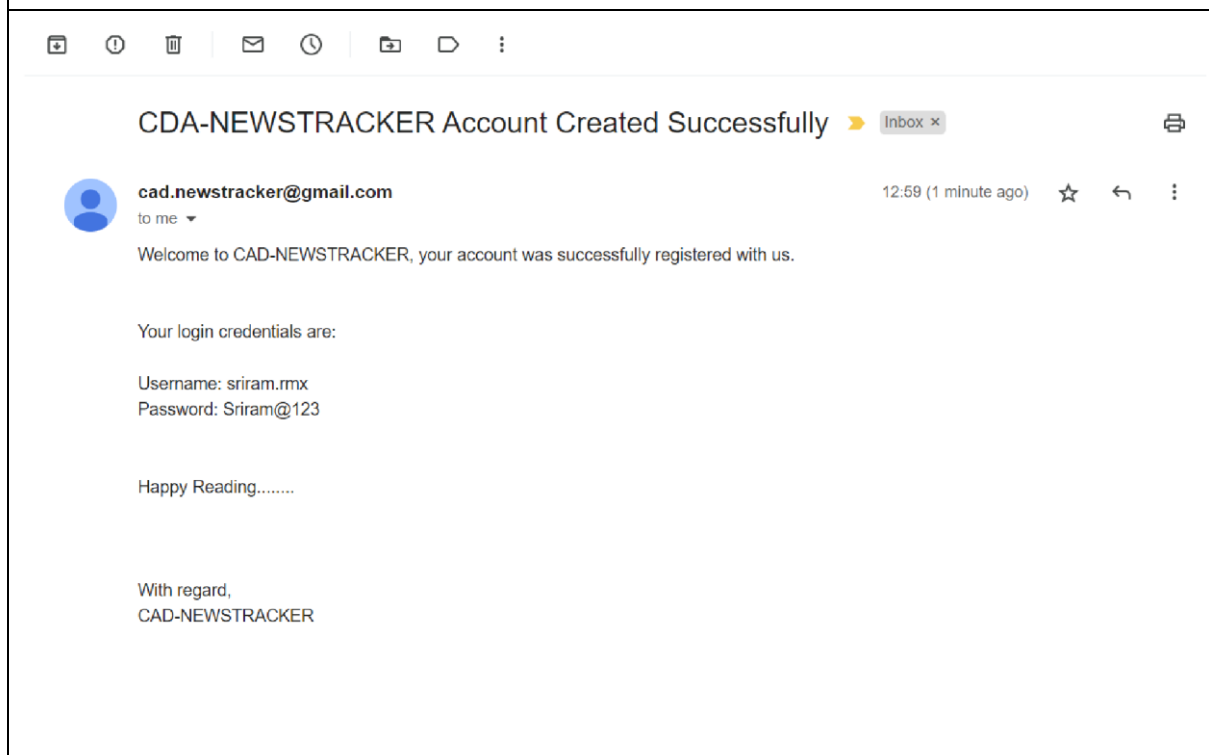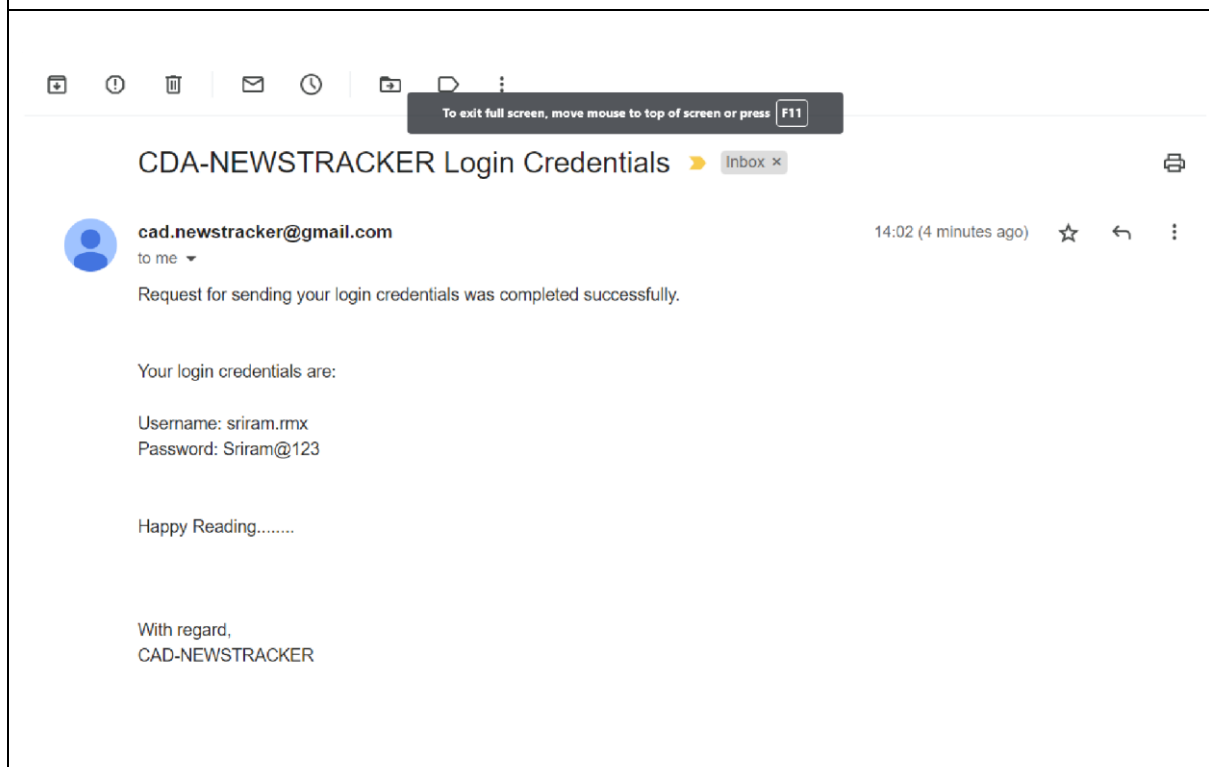With regard,
CAD-NEWSTRACKER

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

Source Codes

app.py:
```python
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-
8fc0d6a8c9f7a08f.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=31321;SECURIT
Y=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=**********;PWD=*****
*****",' ',' ')


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

```python
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)
```

```python
        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 = ? "
        stmtwo =
ibm_db.prepare(conn,querytwo)
ibm_db.bind_param(stmtwo,1,email)
ibm_db.execute(stmtwo)          emailexist =
ibm_db.fetch_assoc(stmtwo)          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(prep_stmt,1,fullname)
ibm_db.bind_param(prep_stmt,2,email)
ibm_db.bind_param(prep_stmt,3,username)
ibm_db.bind_param(prep_stmt,4,password)
          ibm_db.execute(prep_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')
```

```python
@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
<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/fontawesome/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'>
```

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

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

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

    </form>

  </div>

 </div>

 </body>

</html>
```

newaccount.html

```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/fontawesome/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/lottieplayer.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">
```

```html
  <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