Sprint 2

Sprint 2:

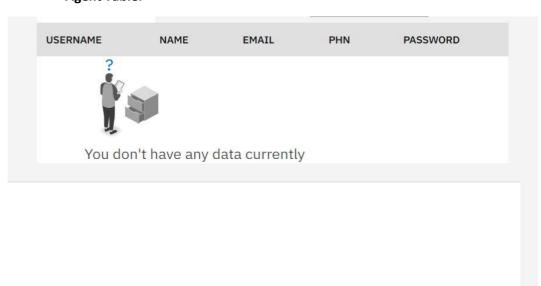
Completed Tasks:

- Login page
- Sign Up page
- Dashboard page
- Add tickets page
- Sendgrid integration
- 1. Create an UI to interact with Application

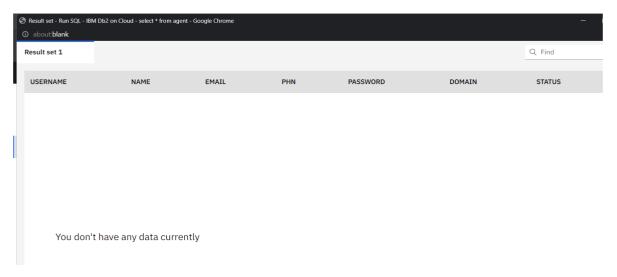


2. Connect with IBM DB2

Agent Table:



Customer Table:



Code:

App.py:

```
from flask import Flask, render_template, request, redirect, session
import ibm_db
import re

app = Flask(__name__)

# for connection

try:
    app.secret_key = 'a'
```

```
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=b70af05b-76e4-4bca-a1f5-
23dbb4c6a74e.clogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32716;SECURIT
Y=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=xyn12614;PWD=oXjOuam0A
OYeLVKq", '', '')
except:
    print("can't connect")
import os
from sendgrid import SendGridAPIClient
from sendgrid.helpers.mail import Mail
message = Mail(
    from_email='from_email@example.com',
    to_emails='to@example.com',
    subject='Sending with Twilio SendGrid is Fun',
   html content='<strong>and easy to do anywhere, even with Python</strong>')
try:
    sg = SendGridAPIClient(os.environ.get('SENDGRID_API_KEY'))
    response = sg.send(message)
    print(response.status_code)
    print(response.body)
   print(response.headers)
except Exception as e:
    print(e.message)
@app.route('/signup', methods=['GET', 'POST'])
def signup():
   global userid
   msg = ''
    if request.method == 'POST':
        username = request.form['username']
        name = request.form['name']
        email = request.form['email']
        phn = request.form['phn']
```

```
password = request.form['pass']
       repass = request.form['repass']
       print("inside checking")
       print(name)
       if len(username) == 0 or len(name) == 0 or len(email) == 0 or len(phn)
== 0 or len(password) == 0 or len(repass) == 0:
           msg = "Form is not filled completely!!"
            print(msg)
            return render template('signup.html', msg=msg)
       elif password != repass:
           msg = "Password is not matched"
           print(msg)
            return render_template('signup.html', msg=msg)
       elif not re.match(r'[a-z]+', username):
           msg = 'Username can contain only small letters and numbers'
           print(msg)
            return render_template('signup.html', msg=msg)
       elif not re.match(r'[^0]+@[^0]+\.[^0]+', email):
           msg = 'Invalid email'
           print(msg)
            return render_template('signup.html', msg=msg)
       elif not re.match(r'[A-Za-z]+', name):
           msg = "Enter valid name"
           print(msg)
            return render_template('signup.html', msg=msg)
       elif not re.match(r'[0-9]+', phn):
           msg = "Enter valid phone number"
            print(msg)
            return render_template('signup.html', msg=msg)
       sql = "select * from users where username = ?"
       stmt = ibm_db.prepare(conn, sql)
       ibm_db.bind_param(stmt, 1, username)
       ibm_db.execute(stmt)
       account = ibm_db.fetch_assoc(stmt)
       print(account)
       if account:
           msg = 'Acccount already exists'
       else:
            insert sql = "insert into users values(?,?,?,?)"
            prep_stmt = ibm_db.prepare(conn, insert_sql)
            ibm_db.bind_param(prep_stmt, 1, username)
            ibm_db.bind_param(prep_stmt, 2, name)
            ibm_db.bind_param(prep_stmt, 3, email)
            ibm_db.bind_param(prep_stmt, 4, phn)
            ibm_db.bind_param(prep_stmt, 5, password)
            ibm_db.execute(prep_stmt)
            print("successs")
```

```
msg = "succesfully signed up"
        return render template('dashboard.html', msg=msg, name=name)
    else:
        return render_template('signup.html')
@app.route('/dashboard')
def dashboard():
    return render_template('dashboard.html')
@app.route('/login', methods=["GET", "POST"])
def login():
   global userid
   msg = ''
    if request.method == 'POST':
        username = request.form['username']
        password = request.form['pass']
        sql = "select * from users 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:
            session['Loggedin'] = True
            session['id'] = account['USERNAME']
            userid = account['USERNAME']
            session['username'] = account['USERNAME']
            msg = 'logged in successfully'
            return render_template('dashboard.html', name=account['name'])
        else:
            msg = 'Incorrect user credentials'
            return render_template('dashboard.html', msg=msg)
    else:
        return render_template('login.html')
@app.route('/admin')
def admin():
    return render_template('admin.html')
@app.route('/about')
def about():
    return render_template('about.html')
```

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

if_name_== "_main_":
    app.run(debug=True)
```

Signup.html:

```
{% extends 'base.html' %}
{% block head %}
    <title>
       Sign Up
   </title>
{% endblock %}
{% block body %}
<div class="forpadding">
    <!-- for box of the signup form -->
    <div class="sign">
       <div>
           Register Now!!
           <form action="/signup" method="post">
               <div class="forform">
                   <div class="textinformleft">
                       Username
                   </div>
                   <div class="textinformright">
                       <input type="name" name="username">
                   </div>
               </div>
               <div class="forform">
                   <div class="textinformleft">
                       Name
                   </div>
                   <div class="textinformright">
```

```
<input type="name" name="name">
                    </div>
                </div>
                <div class="forform">
                    <div class="textinformleft">
                        E - mail
                    </div>
                    <div class="textinformright">
                        <input type="name" name="email">
                </div>
                <div class="forform">
                    <div class="textinformleft">
                        Phone Number
                    </div>
                    <div class="textinformright">
                        <input type="name" name="phn">
                    </div>
                </div>
                <div class="forform">
                    <div class="textinformleft">
                        Password
                    </div>
                    <div class="textinformright">
                        <input type="password" name="pass">
                    </div>
                </div>
                <div class="forform">
                    <div class="textinformleft">
                        Re - enter Password
                    </div>
                    <div class="textinformright">
                        <input type="password" name="repass">
                    </div>
                </div>
                <br>
                <div>
                    <button class="forbutton" type="submit"> Sign up
>></button>
                </div>
            </form>
            <br>
            <div>
                {{msg}}
            </div>
            <br>
            <div>
                Already have an account? <a href="/login">Sign in</a>
```

Login.html:

```
{% extends 'base.html' %}
{% block head %}
   <title>
       Login
   </title>
{% endblock %}
{% block body %}
<div class="forpadding">
   <!-- for box of the signup form -->
   <div class="sign">
       <div>
           Sign In
           <form action="/login" method="post">
               <div class="forform">
                   <div class="textinformleft">
                       Username
                   </div>
                   <div class="textinformright">
                       <input type="name" name="username">
                   </div>
               </div>
               <div class="forform">
                  <div class="textinformleft">
```

```
Password
                    </div>
                    <div class="textinformright">
                        <input type="password" name="pass">
                </div>
                <br>
                <div>
                    <button class="forbutton" type="submit"> Sign In
>></button>
               </div>
            </form>
            <div>
                New user? <a href="/signup">Sign up</a>
            <br>
        </div>
    </div>
</div>
{% endblock %}
```

Dashboard.html:

```
{% extends 'base.html' %}

{% block head %}

<title>
    Dashboard
</title>
{% endblock %}

{% block body %}

<!-- things
    div 1
welcome jetson, sign out</pre>
```

```
your complaints status
add new complaint -->
<br>
<div class="fordashboardtop">
   <div class="fordashboardtopelements1">
      Welcome Ravi,
   </div>
   <div class="fordashboardtopelements2">
      <a href="/login"><button class="forbutton">Sign out</button></a>
   </div>
</div>
<br>
<div class="outerofdashdetails">
   <div class="fordashboarddetails">
      <!-- table of customers complaints -->
      Complaint Detail
            Assigned Agent
            Status
            More details
         </thead>
         Network Issue
               Dr.Raj
               Not Completed
               <a href="">Click Here >></a>
```

Base.html: