

IBM NALAIYATHIRAN PROJECT REPORT

Domain: Retails and E-Commerce (R&E)

Title: Customer Care Registry

Submitted by

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1. INTRODUCTION

A comprehensive online Client Care Solution is used to manage customer interactions and complaints with Service Providers via phone or e-mail. The system must be able to integrate with any service provider from any field or sector, including banking, telecommunications, insurance, etc. The provision of service to consumers, commonly referred to as client service, has varying significance depending on the product, business, and domain. When making a purchase of a service rather than a product, customer service is frequently of greater importance. People or Sales & Service Representatives may offer customer service. The customer value proposition of a business typically includes excellent customer service.

1.1 PROJECT OVERVIEW

The Customer Service Desk project is online. The provision of service to customers is known as customer service or client service. The importance varies depending on the product, industry, and domain. When information relates to a service rather than a customer, customer service is frequently more crucial. A service representative might offer customer service. The customer value proposition of a business typically includes excellent customer service. Software like Flask, Docker, SendGrid, and IBM Watson are used to implement this.

1.2 PURPOSE

The project's goal is to create customer engagement, address customer issues, and offer a helpful service. It is an essential component of all businesses.

2. LITERATURE SURVEY

2.1 EXISTING PROBLEM

The information is now saved in disc drives in the form of excel sheets in a semi-automated approach. Only the mailing feature is used to share information with Volunteers, Group members, etc. In this system, information maintenance and storage are increasingly crucial. It is a hard task to monitor the members' activities and the development of the work here. This system is unable to offer information exchange every day of the week.

2.2 REFERENCES

a) In this article, a Chabot from the AWS cloud is deployed for customer care. Real world smart Chabot for customer care using SaaS architecture. This is done to offer cognitive and LUIS services to humans.

b) Chat bots for customer service are used in this paper in place of human customer service representatives. It makes decisions and offers services using AI.

c) Client service chatbot - In this paper, the customer gives the chatbot the information it needs based on the information it gives the customer service.

d) A clever cloud-based customer relationship management system that uses adjustable pricing to maintain customers. This essay analyses historical patterns to suggest consumer behavior that might be used for marketing.

2.3 PROBLEM STATEMENT DEFINITION

A problem statement is a concise description of the problem or issues a project seeks to address. The problem statement identifies the current state, the desired future state and any gaps between the two. A problem statement is an important communication tool that can help ensure everyone working on a project knows what the problem they need to address is and why the project is important.

3. IDEATION & PROPOSED SOLUTION

3.1 EMPATHY MAP CANVAS

An empathy map is a straightforward, simple-to-understand picture that summarizes information about a user's actions and views. It is a helpful tool that enables teams to comprehend their users more fully. It's important to comprehend both the actual issue and the person who is experiencing it in order to develop a workable solution. Participants learn to think about situations from the user's perspective, including goals and challenges, through the exercise of creating the map.

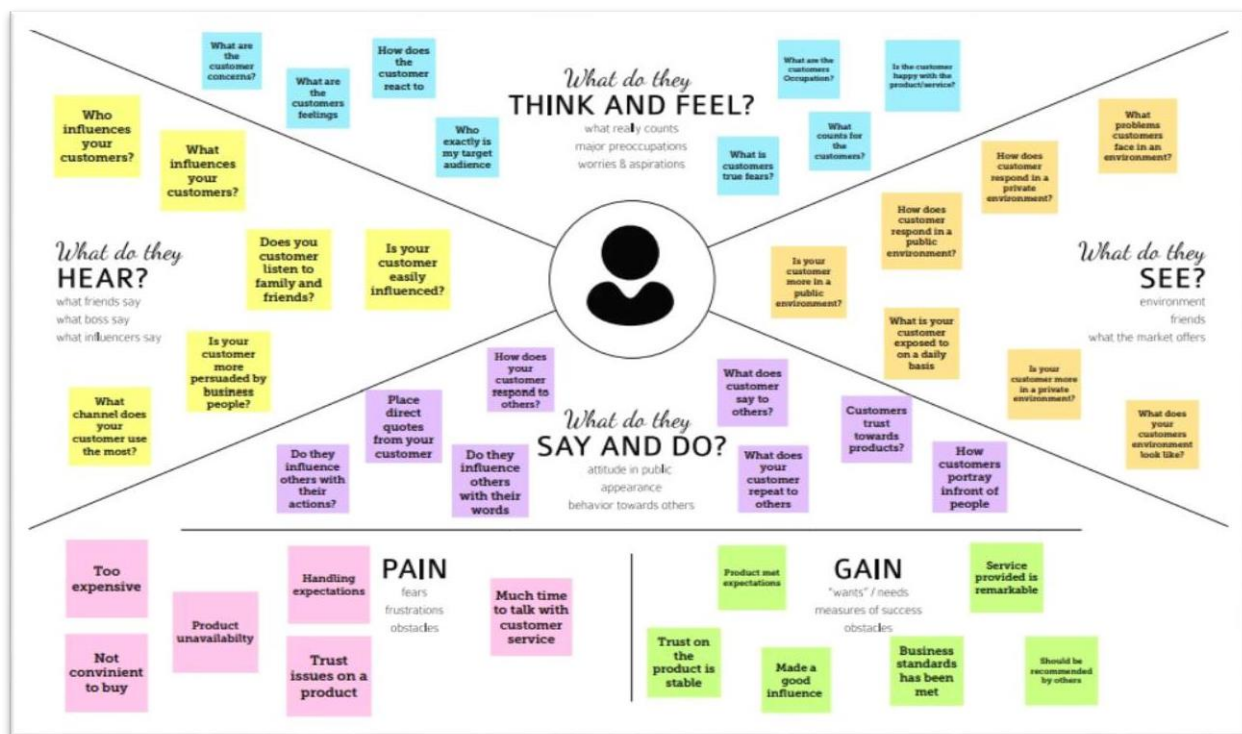
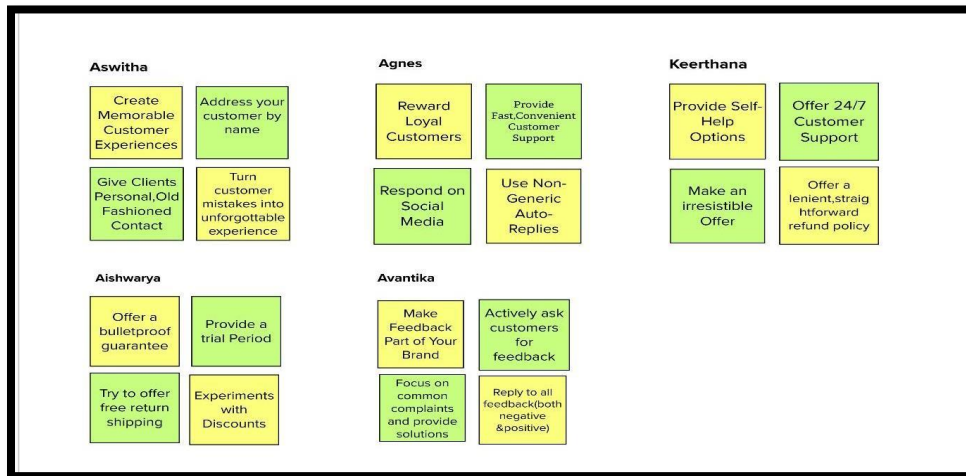


Fig 3.1: Empathy Map Canvas

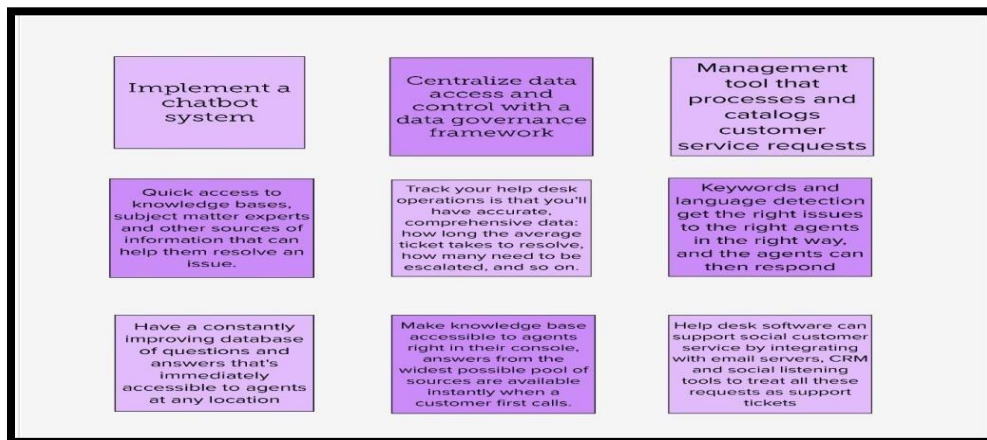
3.2 IDEATION AND BRAINSTORMING

1. What issues are you attempting to address? Describe the issues.
2. How might we address the issue? Which does the customer raise?

Brainstorming:



Group Ideas:



3.3 PROPOSED SOLUTION

Allotted By sending the email directly to a specific agent about the problem, agent routing can be fixed. automated ticket closure by cloud database sync. The customer's status display may include their tickets. The platform that will enable the customer specialist to be effective is what the customer care service aims to give. And it takes less time to find the answer.

4. REQUIREMENT ANALYSIS

4.1 FUNCTIONAL REQUIREMENTS

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Customer Query	Access through email and chatbot from the chosen website
FR-4	Database	preserving the modelled item
FR-5	Feedback	Customer's Feedback
FR-6	E-Mail	Login alertness

NON-FUNCTIONAL REQUIREMENTS

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	To offer a remedy for the issue, user friendly.
NFR-2	Security	Logging and authentication history
NFR-3	Reliability	Tracking the status of the decade via email
NFR-4	Performance	responsive and adaptable
NFR-5	Availability	24/7 Support
NFR-6	Scalability	Scalability of agents according to consumer volume

5. PROJECT DESIGN

5.1 DATA FLOW DIAGRAM

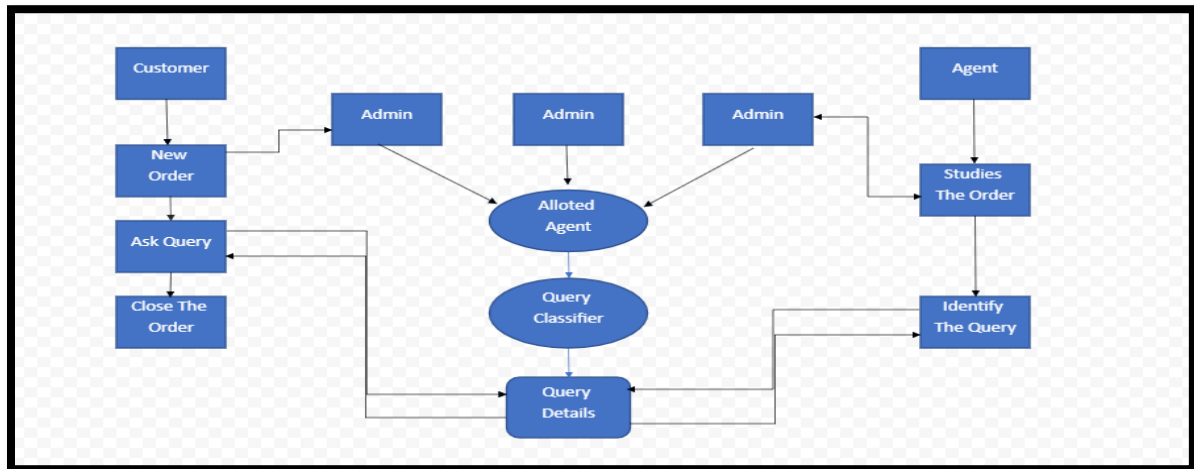


Fig 5.1: Data Flow Diagram

5.2 SOLUTION AND TECHNICAL ARCHITECTURE

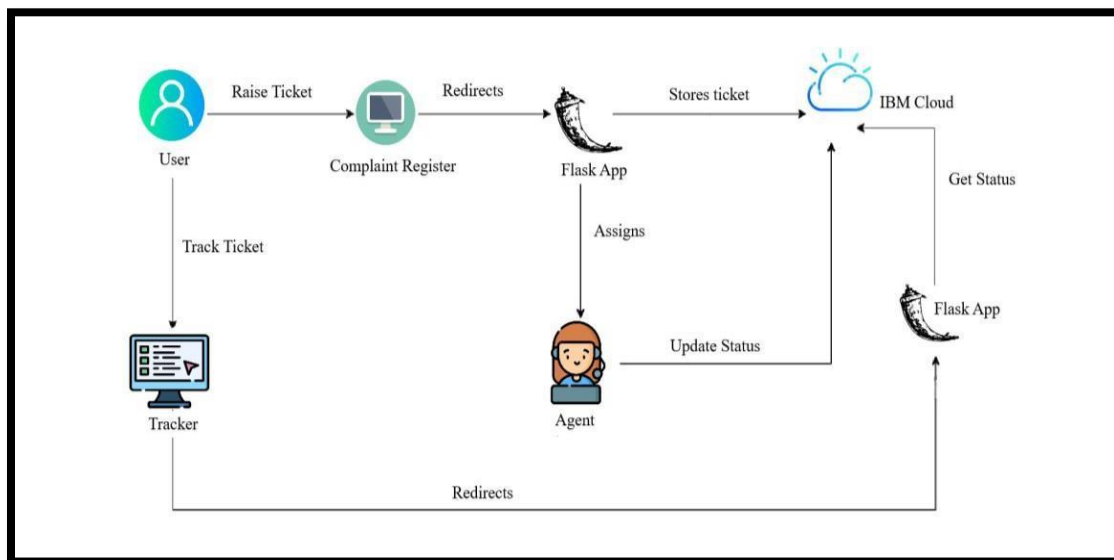


Fig 5.2: Solution and Technical Architecture

6. PROJECT PLANNING & SCHEDULING








6.1 SPRINT PLANNING & ESTIMATION

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Aswitha,Aishwarya, Agnes Sharon,Avantika, Keerthana.
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Aswitha,Aishwarya, Agnes Sharon,Avantika, Keerthana.
Sprint-2		USN-3	As a user, I can register for the application through Facebook	2	Low	Aswitha,Aishwarya, Agnes Sharon,Avantika, Keerthana.
Sprint-1		USN-4	As a user, I can register for the application through Gmail	2	Medium	Aswitha,Aishwarya, Agnes Sharon,Avantika, Keerthana.
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Aswitha,Aishwarya, Agnes Sharon,Avantika, Keerthana.
	Dashboard	USN-6	Create a model set that contains those models, then assign it to a role.		High	Aswitha,Aishwarya, Agnes Sharon,Avantika, Keerthana.
Sprint-3		USN-7	Open, public access, User- aut,1enticated access, Employee- restricted access		High	Aswitha,Aishwarya, Agnes Sharon,Avantika, Keerthana.

6.2 SPRINT DELIVERY SCHEDULE

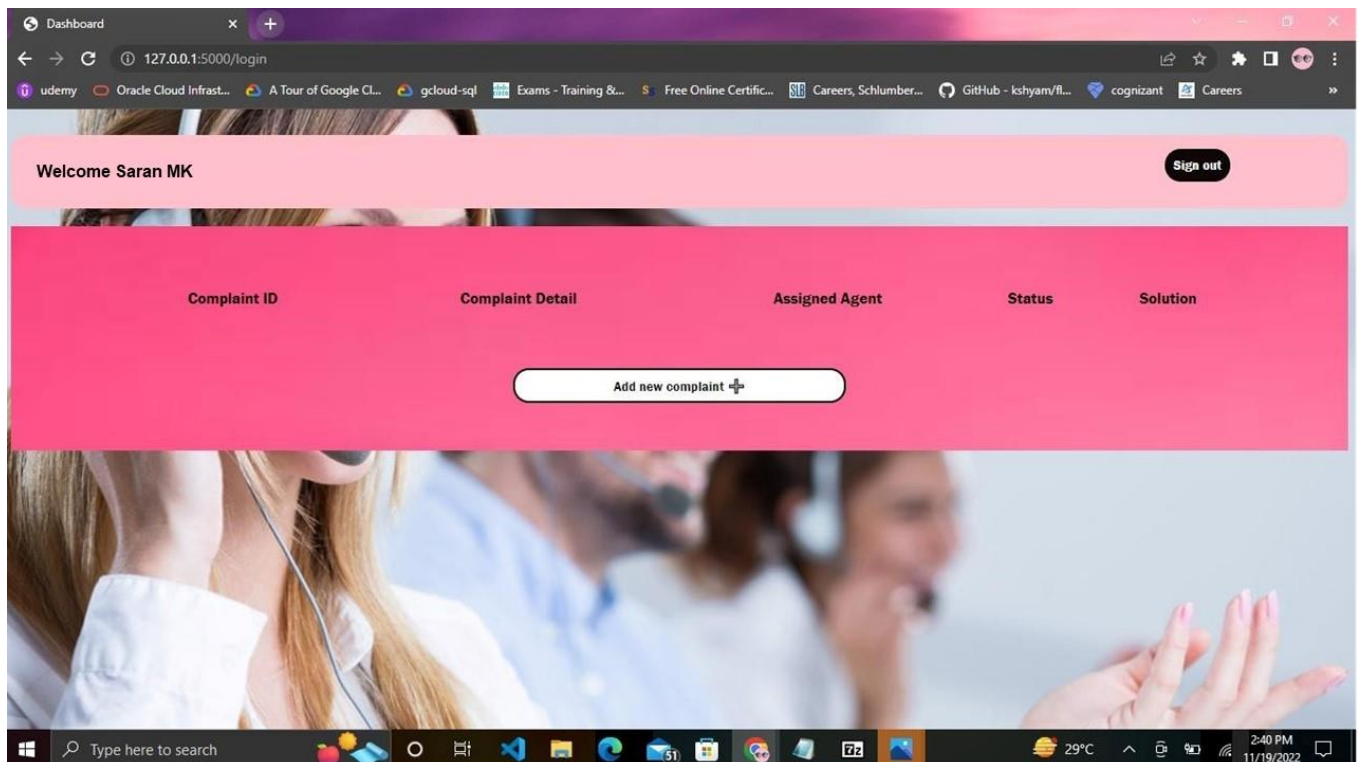
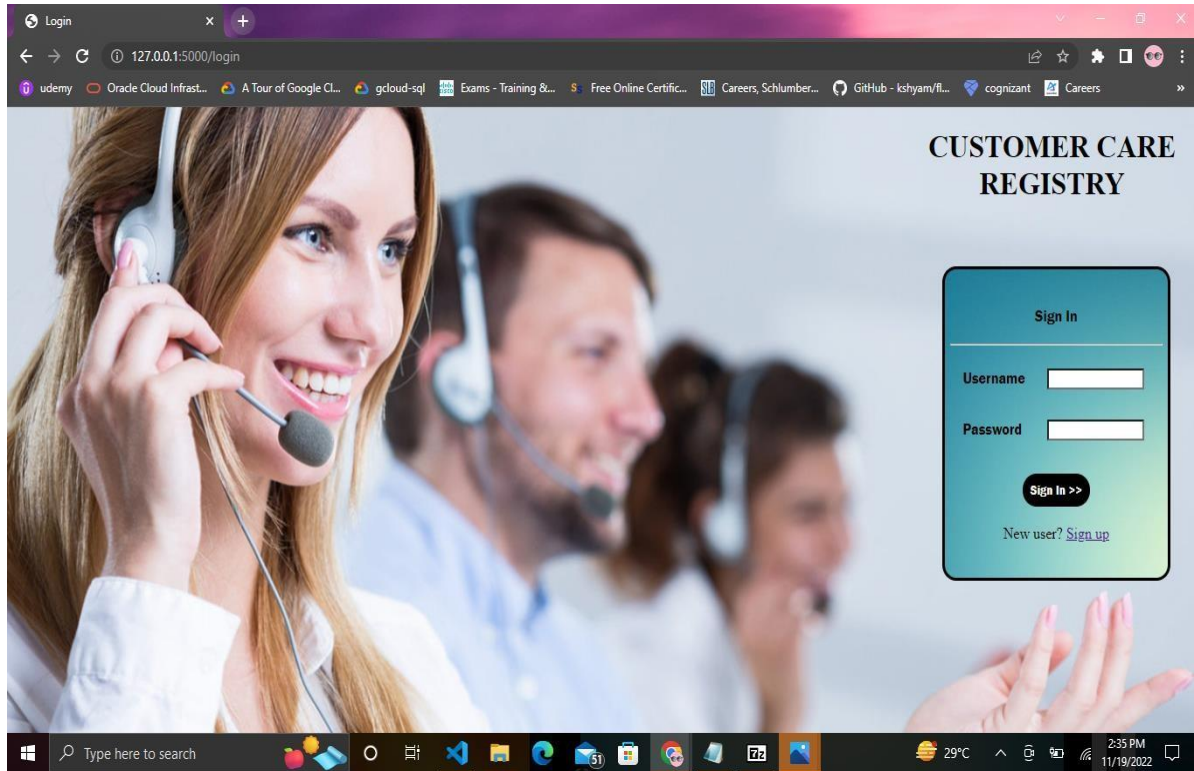
Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022		
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022		

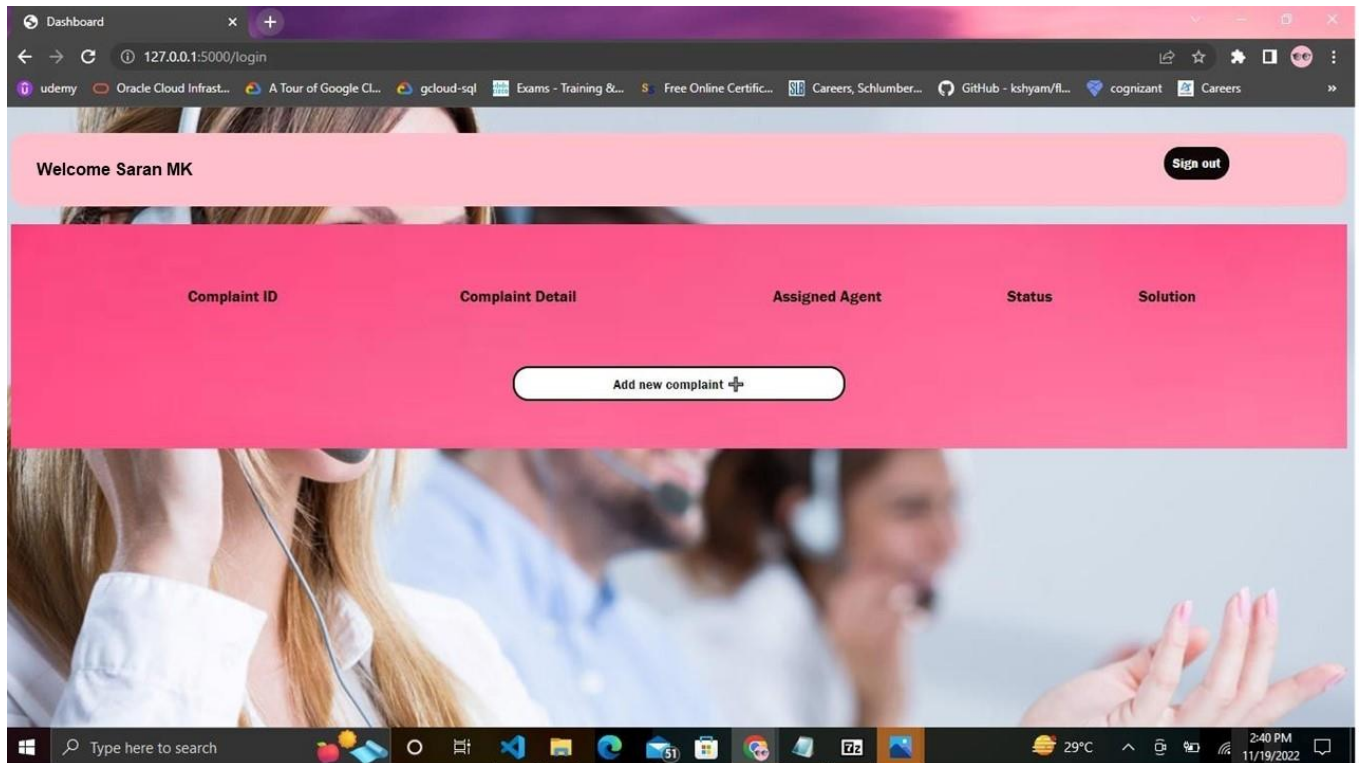
6.3 REPORTS FROM JIRA

 ECR-3	The user will login into the website and go throug...	DONE ▾	
 ECR-4	The role of the agent is to check out the complaint...	DONE ▾	
 ECR-5	The role of the admin is to check out the database...	DONE ▾	
 ECR-6	he user can directly talk to Chatbot regarding the ...	DONE ▾	
 ECR-7	Container of applications using docker kubernetes...	DONE ▾	

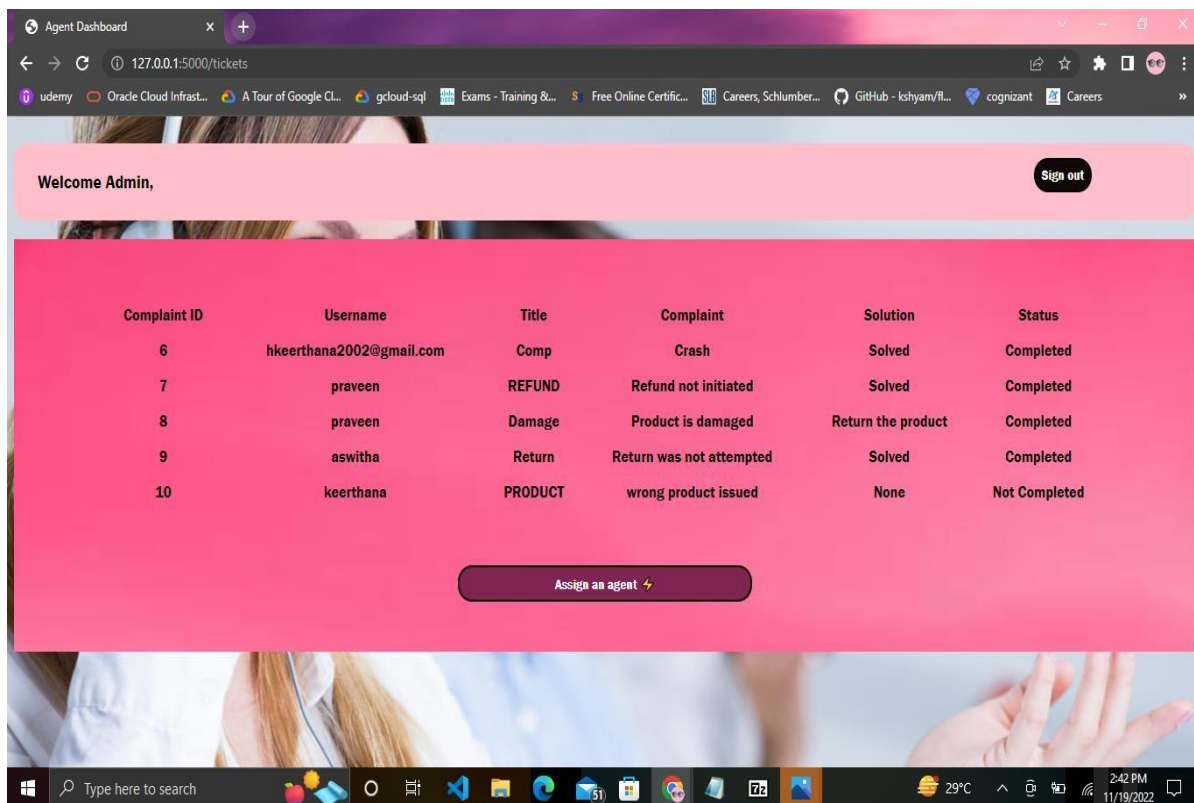
7. CODING & SOLUTION

7.1 FEATURE





7.2 FEATURE



Agent Dashboard

Welcome Admin, [Sign out](#)

Complaint ID	Username	Title	Complaint	Solution	Status
6	hkeerthana2002@gmail.com	Comp	Crash	Solved	Completed
7	praveen	REFUND	Refund not initiated	Solved	Completed
8	praveen	Damage	Product is damaged	Return the product	Completed
9	aswitha	Return	Return was not attempted	Solved	Completed
10	keerthana	PRODUCT	wrong product issued	None	Not Completed

[Assign an agent](#)

Complaint ID

Choose an agent:

[Submit](#)

Dashboard

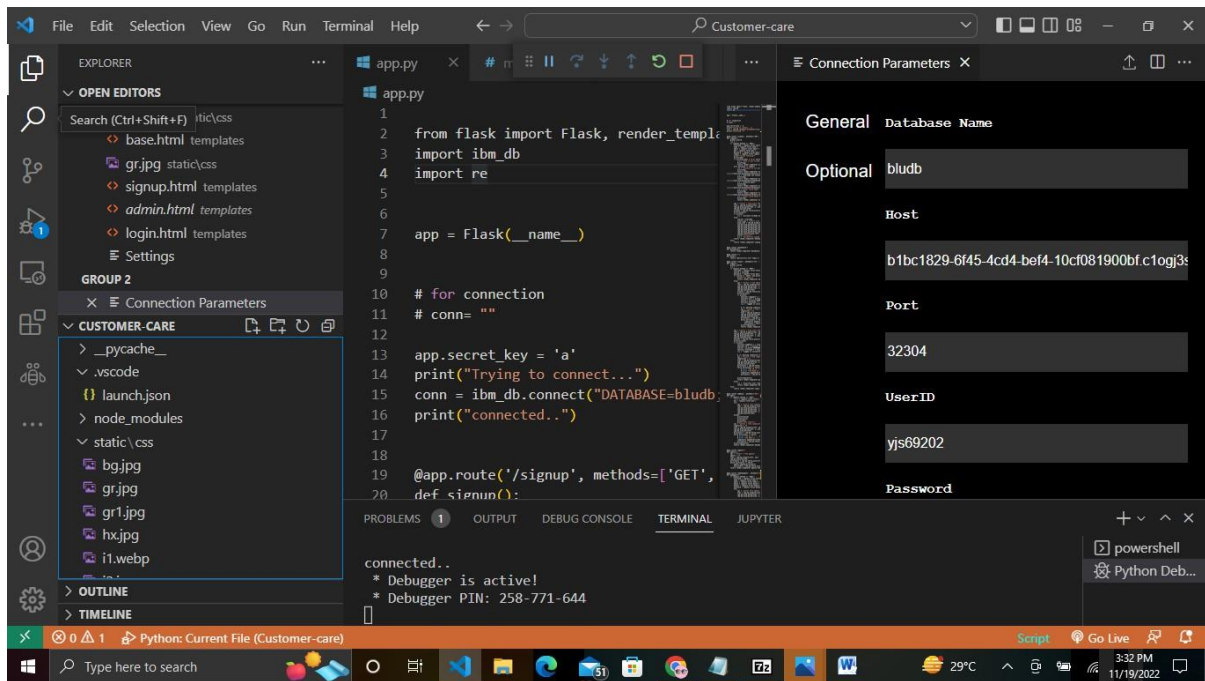
Welcome Saran MK [Sign out](#)

Complaint ID	Complaint Detail	Assigned Agent	Status	Solution
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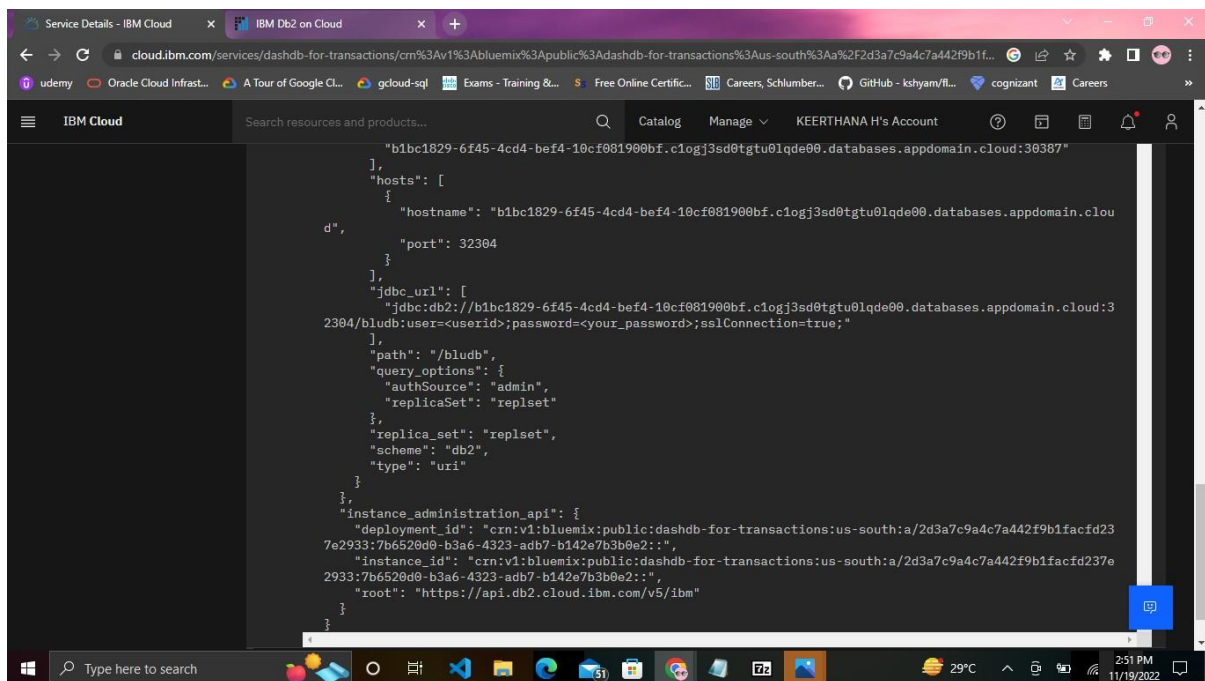
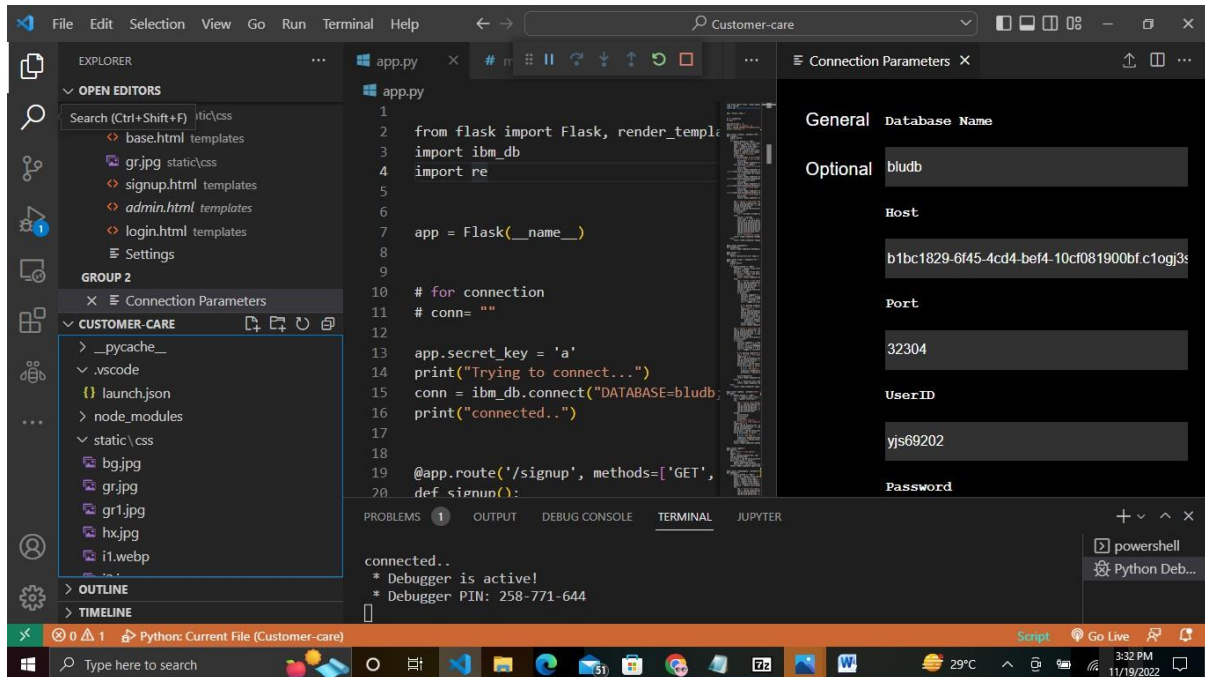
[Add new complaint](#)

7.3 DATABASE SCHEMA

CONNECTING TO DATABASE:



SERVICE CREDENTIALS:



The screenshot shows the IBM Db2 on Cloud interface with the 'Connections' tab selected. The table displays the following data:

Application name	Client user ID	Client IP address	Application handle	Connection start time	Workload name	Service superclass name
python.exe		172.30.50.128	56925	Nov 19, 2022 3:04:17 PM	SYSDEFAULTUSER WORKLOAD	SYSDEFAULTUSERCLASS
python.exe		172.30.240.128	56941	Nov 19, 2022 3:04:46 PM	SYSDEFAULTUSER WORKLOAD	SYSDEFAULTUSERCLASS

DATA TABLES:

The screenshot shows the IBM Db2 on Cloud interface with the 'Tables' tab selected. The 'Tables' panel displays the following data:

Name	Schema	Properties
AGENTS	YJS69202	...
COMPLAINTS	YJS69202	...
USERS	YJS69202	...

AGENT TABLE:

The screenshot shows the IBM Db2 on Cloud web interface. The 'Tables' tab is selected, displaying a list of tables: AGENTS, COMPLAINTS, and USERS, all belonging to the YJS69202 schema. The 'Table definition' panel for the AGENTS table is open, showing its structure:

Name	Data type	Nullable	Length	Scale
USERNAME	VARCHAR	N	30	0
NAME	VARCHAR	Y	30	0
EMAIL	VARCHAR	Y	30	0
PHN	VARCHAR	Y	30	0

The interface also shows a search bar, a 'New table' button, and a 'View data' button. The bottom status bar indicates the time is 3:07 PM on 11/19/2022.

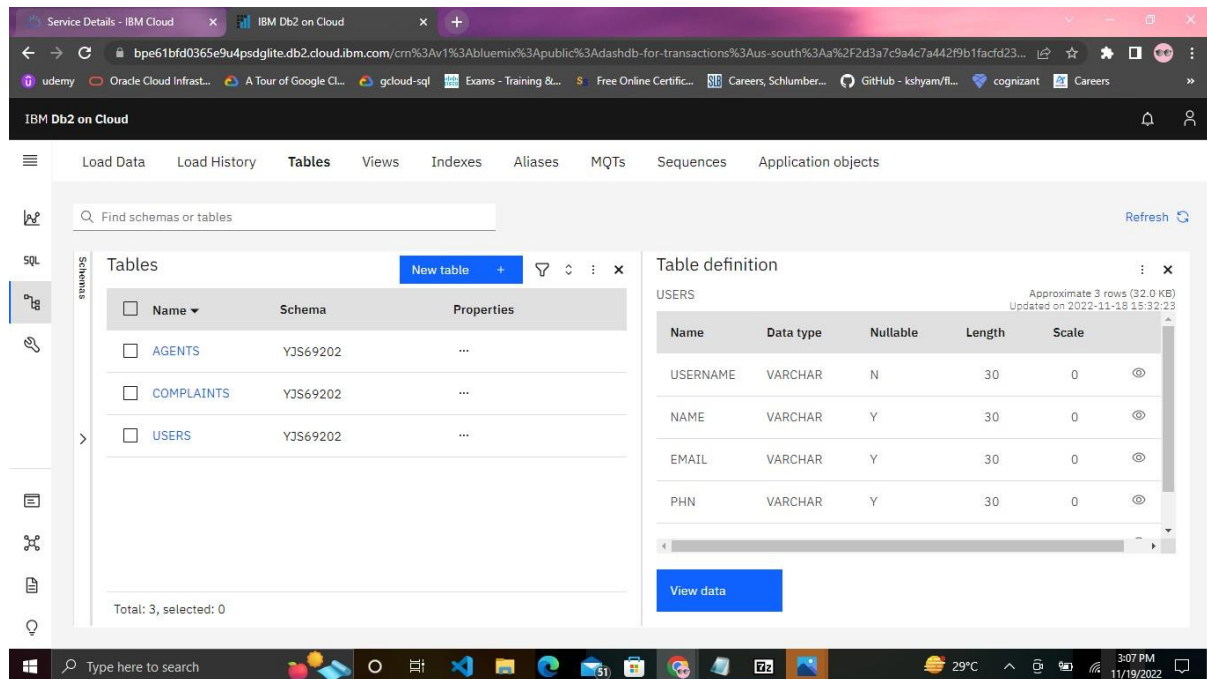
COMPLAINT TABLE:

The screenshot shows the IBM Db2 on Cloud web interface. The 'Tables' tab is selected, displaying a list of tables: AGENTS, COMPLAINTS, and USERS, all belonging to the YJS69202 schema. The 'Table definition' panel for the COMPLAINTS table is open, showing its structure:

Name	Data type	Nullable	Length	Scale
C_ID	INTEGER	N		0
USERNAME	VARCHAR	N	30	0
TITLE	VARCHAR	N	30	0
ASSIGNED_A GENT	VARCHAR	Y	30	0

The interface also shows a search bar, a 'New table' button, and a 'View data' button. The bottom status bar indicates the time is 3:07 PM on 11/19/2022.

USER TABLE:



Job Calendar:

When a user chooses a day from the job calendar, a list of jobs that are open on that day is displayed on the same page. Ajax features were used to construct this functionality from scratch.

8. TESTING

8.1 TEST CASES

Test Case ID	Feature Type	Component	Test Scenario	Expected Result	Result Status
01	Functional	user page	Verify user is able to see show complain popup	Show complain popup displayed	Pass
02	UI	user page	Verify user has no complain	No complain displayed	Pass
03	UI	AGENT login	Text field visible to enter email	Text field visible	Pass
04	UI	User login	Text field visible to enter email	Text field visible	Pass
05	UI	Agent login	Text field visible to enter password	Text field visible	Pass

8.2 USER ACCEPTANCE TESTING

Test Case ID	Feature Type	Component	Test Scenario	Expected Result	Result Status
01	Functional	Home page	Verify user is able to see the login/signup popup when clicked on my account	Login/Signup displayed	pass
02	Ui	Home page	Verify the UI elements in the Login/Signup	The UI elements Working accordingly	pass
03	Functional	Home page	Verify user is able to login to the application with valid credentials	Login successful	pass
04	Functional	login page	Verify user cannot login to the application without valid credentials	Login unsuccessful	pass

9. RESULT

This project is designed to solve the customer queries and achieve customer satisfaction. It is a web-enabled project. With this project the details about the product will be given to the customers in detail within a short span of time. Queries regarding the product or the services will also be clarified. It provides more knowledge about the various technologies.

10. ADVANTAGES AND DISADVANTAGES

Advantage

- Provides total population data reporting with no chart abstraction.
- Generates revenue (it shows when services are needed).
- Provides outreach information at fingertips.
- Flow sheet is a powerful tool to monitor clinical data and track trends.
- Provides a dashboard of who needs what.
- Improves team-based care.
- Smaller software package than EHRs.

Disadvantage

- Parallel documentation system
- Does not include information necessary for billing.
- Requires hardware, software and maintenance.
- Requires data entry and data maintenance.
- Experience burnout and stress.

11. CONCLUSION

The goal of this project is to satisfy customers by providing answers to their questions. The project is web-enabled. With the help of this project, clients will quickly receive detailed information about the product. Questions about the goods or services will also be answered. More information about the various technologies is provided.

12. FUTURE SCOPE

1. Answering each customer's question individually.
2. It is a pivotal moment for marketing.
3. It will bring about a major revolution.

14.APPENDIX

Source Code:

```
from flask import Flask, render_template, request, redirect, session, url_for
import ibm_db
import re
app = Flask(__name__)

# for connection
# conn= ""

app.secret_key = 'a'
print("Trying to connect...")
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=b1bc1829-6f45-4cd4-bef4-10cf081900bf.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32304;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=yjs69202;PWD=nCHXXVA1056i46ky;", "", "")
print("connected..")

@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'^[@]+@[^@]+\.[^@]+', 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 = 'Account already exists'
    else:
        userid = username
        insert_sql = "insert into users values(?,?,?,?,?)"
        prep_stmt = ibm_db.prepare(conn, insert_sql)
        ibm_db.bind_param(prepare_stmt, 1, username)
        ibm_db.bind_param(prepare_stmt, 2, name)
        ibm_db.bind_param(prepare_stmt, 3, email)
        ibm_db.bind_param(prepare_stmt, 4, phn)
        ibm_db.bind_param(prepare_stmt, 5, password)

```

```

        ibm_db.execute(prepare_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('/')
def base():
    return redirect(url_for('login'))

@app.route('/login', methods=["GET", "POST"])
def login():
    global userid
    msg = ""
    if request.method == 'POST':
        username = request.form['username']
        userid = username
        password = request.form['pass']
        if userid == 'admin' and password == 'admin':
            print("its admin")
            return render_template('admin.html')
        else:
            sql = "select * from agents 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'

# for getting complaints details
sql = "select * from complaints where assigned_agent = ?"
complaints = []
stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt, 1, username)
ibm_db.execute(stmt)
dictionary = ibm_db.fetch_assoc(stmt)
while dictionary != False:
    complaints.append(dictionary)
    dictionary = ibm_db.fetch_assoc(stmt)
print(complaints)
return render_template('agentdash.html', name=account['USERNAME'],
complaints=complaints)

```

```

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'

```

```

# for getting complaints details
sql = "select * from complaints where username = ?"
complaints = []
stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt, 1, username)
ibm_db.execute(stmt)
dictionary = ibm_db.fetch_assoc(stmt)
while dictionary != False:
    # print "The ID is : ", dictionary["EMPNO"]
    # print "The Name is : ", dictionary[1]

```

```

        complaints.append(dictionary)
        dictionary = ibm_db.fetch_assoc(stmt)

    print(complaints)
    return render_template('dashboard.html', name=account['USERNAME'],
complaints=complaints)
    else:
        msg = 'Incorrect user credentials'
        return render_template('dashboard.html', msg=msg)
    else:
        return render_template('login.html')

@app.route('/addnew', methods=["GET", "POST"])
def add():
    if request.method == 'POST':
        title = request.form['title']
        des = request.form['des']
        try:
            sql = "insert into complaints(username,title,complaint) values(?,?,?)"
            stmt = ibm_db.prepare(conn, sql)
            ibm_db.bind_param(stmt, 1, userid)
            ibm_db.bind_param(stmt, 2, title)
            ibm_db.bind_param(stmt, 3, des)
            ibm_db.execute(stmt)
        except:
            print(userid)
            print(title)
            print(des)
            print("cant insert")
        sql = "select * from complaints where username = ?"
        complaints = []
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt, 1, userid)
        ibm_db.execute(stmt)
        dictionary = ibm_db.fetch_assoc(stmt)
        while dictionary != False:
            # print "The ID is : ", dictionary["EMPNO"]
            # print "The Name is : ", dictionary[1]
            complaints.append(dictionary)

```



```

        dictionary = ibm_db.fetch_assoc(stmt)
    print(complaints)
    return render_template('dashboard.html', name=userid,
complaints=complaints)

```

```

@app.route('/agents')
def agents():
    sql = "select * from agents"
    agents = []
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.execute(stmt)
    dictionary = ibm_db.fetch_assoc(stmt)
    while dictionary != False:
        agents.append(dictionary)
        dictionary = ibm_db.fetch_assoc(stmt)
    return render_template('agents.html', agents=agents)

```

```

@app.route('/addnewagent', methods=["GET", "POST"])
def addagent():
    if request.method == 'POST':
        username = request.form['username']
        name = request.form['name']
        email = request.form['email']
        phone = request.form['phone']
        domain = request.form['domain']
        password = request.form['password']
        try:
            sql = "insert into agents values(?,?,?,?,?,2)"
            stmt = ibm_db.prepare(conn, sql)
            ibm_db.bind_param(stmt, 1, username)
            ibm_db.bind_param(stmt, 2, name)
            ibm_db.bind_param(stmt, 3, email)
            ibm_db.bind_param(stmt, 4, phone)
            ibm_db.bind_param(stmt, 5, password)
            ibm_db.bind_param(stmt, 6, domain)
            ibm_db.execute(stmt)
        except:
            print("cant insert")

```

```

sql = "select * from agents"
agents = []
stmt = ibm_db.prepare(conn, sql)
ibm_db.execute(stmt)
dictionary = ibm_db.fetch_assoc(stmt)
while dictionary != False:
    agents.append(dictionary)
    dictionary = ibm_db.fetch_assoc(stmt)

return render_template('agents.html', agents=agents)

@app.route('/updatecomplaint', methods=["GET", "POST"])
def updatecomplaint():
    if request.method == 'POST':
        cid = request.form['cid']
        solution = request.form['solution']
        try:
            sql = "update complaints set solution=?,status=1 where c_id = ? and assigned_agent=?"
            stmt = ibm_db.prepare(conn, sql)
            ibm_db.bind_param(stmt, 1, solution)
            ibm_db.bind_param(stmt, 2, cid)
            ibm_db.bind_param(stmt, 3, userid)
            ibm_db.execute(stmt)
            sql = "update agents set status =3 where username=?"
            stmt = ibm_db.prepare(conn, sql)
            ibm_db.bind_param(stmt, 1, userid)
            ibm_db.execute(stmt)
        except:
            print("cant insert")
            sql = "select * from complaints where assigned_agent = ?"
            complaints = []
            stmt = ibm_db.prepare(conn, sql)
            ibm_db.bind_param(stmt, 1, userid)
            ibm_db.execute(stmt)
            dictionary = ibm_db.fetch_assoc(stmt)
            while dictionary != False:
                complaints.append(dictionary)
                dictionary = ibm_db.fetch_assoc(stmt)

```

```

        # print(complaints)
        return render_template('agentdash.html', name=userid,
complaints=complaints)

@app.route('/tickets')
def tickets():
    sql = "select * from complaints"
    complaints = []
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.execute(stmt)
    dictionary = ibm_db.fetch_assoc(stmt)
    while dictionary != False:
        complaints.append(dictionary)
        dictionary = ibm_db.fetch_assoc(stmt)

    sql = "select username from agents where status <> 1"
    freeagents = []
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.execute(stmt)
    dictionary = ibm_db.fetch_assoc(stmt)
    while dictionary != False:
        freeagents.append(dictionary)
        dictionary = ibm_db.fetch_assoc(stmt)
    print(freeagents)
    return render_template('tickets.html', complaints=complaints,
freeagents=freeagents)

@app.route('/assignagent', methods=['GET', 'POST'])
def assignagent():
    if request.method == "POST":
        ccid = request.form['ccid']
        agent = request.form['agent']
        print(ccid)
        print(agent)
        try:
            sql = "update complaints set assigned_agent =? where c_id = ?"
            stmt = ibm_db.prepare(conn, sql)
            ibm_db.bind_param(stmt, 1, agent)

```

```
    ibm_db.bind_param(stmt, 2, ccid)
    ibm_db.execute(stmt)
    sql = "update agents set status =1 where username = ?"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt, 1, userid)
    ibm_db.execute(stmt)
except:
    print("cant update")
return redirect(url_for('tickets'))

if __name__ == "__main__":
    app.run(debug=True)
```

GitHub Repository Link:

<https://github.com/IBM-EPBL/IBM-Project-34470-1660236275>