## PROJECT REPORT

TITLE	CUSTOMER CARE REGISTRY
TEAM ID	PNT2022TMID33777

TEAM LEADER	JESINTHA A
TEAM MEMBER 1	BISMI MAJIDHA S
TEAM MEMBER 2	MELCIYA JAFFRIN A
TEAM MEMBER 3	MOHAMED ARSHAD M

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#### CHAPTER 1

## **INTRODUCTION**

## PROJECT OVERVIEW

Customer care is more than just providing great customer service. It's proactive approach to providing information, tools, and services to customers at each point they interact with a brand. This Application has been developed to help the customer in processing their complaints. The customers can raise the ticket with a detailed description of the issue. An Agent will be assigned to the Customer to solve the problem. Whenever the agent is assigned to a customer they will be notified with an email alert. Customers can view the status of the ticket till the service is provided. The main role and responsibility of the admin are to take care of the

whole process. Starting from Admin login followed by the agent creation and assigning the customer's complaints. Finally, He will be able to track the work assigned to the agent and a notification will be sent to the customer. User can register for an account. After the login, they can create the complaint with a description of the problem they are facing. Each user will be assigned with an agent. They can view the status of their complaint.

#### PURPOSE

This Application has been developed to help the customer in processing their complaints. The customers can raise the ticket with a detailed description of the issue. An Agent will be assigned to the Customer to solve the problem. Whenever the agent is assigned to a customer they will be notified with an email alert. Customers can view the status of the ticket till the service is provided. When customers are happy with the service they receive, they are more likely to trust and be loyal to that company. Good customer service creates a positive experience for customers, which can result in repeat business and referrals. Good customer service is the lifeblood of any business. You can offer promotions and slash prices to bring in as many new customers as you want, but unless you can get some of those customers to come back, your business won't be profitable for long. Good customer service is all about bringing customers back. Good customer service makes it easy for customers to do business with you. When customers have a positive experience with your company, they are more likely to come back and do business with you again. Good customer service also makes it easy for customers to recommend yourcompany to their friends and family.

## **CHAPTER 2**

## LITERATURE SURVEY

#### 1. EXISTING PROBLEM

• TITLE- CUSTOMER CARE REGISTRY DESCRIPTION

Previous research or relevant research is very important in a scientific research or article. Previous research or relevant research serves to strengthen the theory and influence of relationships or influences between variables. Article in the review customer satisfaction determination and complaint level: Product Quality and Service Quality Analysis, A Study of Marketing Management Literature. The purpose of writing this article is to build a hypothesis of influence between variables to be used in future research. The result of this research library is that: 1) Product Quality affects Customer Satisfaction; 2) Service Quality affects Customer Satisfaction; 3) Product Quality affects complaint level; 4) Service Quality affects complaint level; and 5) Customer Satisfaction affects complaint level.

#### TITLE- CUSTOMER CARE REGISTRY

## DESCRIPTION

Customer satisfaction is decisive for construction field and firms relying on customer's relationship. Measuring the customer satisfaction has several benefits such as for improving communication between parties, evaluation of progress towards goals and enabling of mutual agreement and monitoring results. This paper focuses on analyzing the satisfaction factors of customers including all aspects of products and services in the construction projects. In this study factors for customer satisfaction in construction industry are taken from the past literature review. The literature reviews are summarized and various factors related to customer satisfaction in construction industry based on literature review summary.

## TITLE- CUSTOMER CARE REGISTRY

### DESCRIPTION

Customer Satisfaction Study Of The Mumbai Metro Service". In this study they

investigated about the service quality of the metro service based on the performance leading to customer satisfaction. The survey was conducted and analyzed with SPSS tool. This survey is based

on Gap 5 SERVQUAL model and identified the level of satisfaction with their parameter

### **2.1.4 TITLE-** CUSTOMER CARE REGISTRY

## **DESCRIPTION**

"Study of Factors Affecting Customer Satisfaction for Residential Flats in Surat and Ahmedabad city in Gujarat Region of India". In this paper, factors affecting the customer satisfaction among the residential flats are analyzed in the region. They find the satisfaction and dissatisfaction factors from flat owners. They find out the factor for customer service satisfaction and dissatisfaction factor such as Builder reputation, Materials & Method Used In Construction, Location Of The Building, Aesthetic Appearance Of The Building, Security Provisions, Fire Safety and Protection, Size and space of rooms, Drawing Or Living Room, Bathroom, Area Calculation, Ventilation, Water supply, Parking, Recreational Facilities and Interiors of building

#### REFERENCES

- Lucas, Robert (2015). Customer Service Skills For Success. New York: McGraw-Hill. <u>ISBN</u> HYPERLINK "https://en.wikipedia.org/wiki/ISBN\_(identifier)" <u>978-0-07-</u>354546-2.
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1) Teresa Swartz, Dawn Iacobucci. Handbook of Services Marketing and Management. Thousand

Oaks, CA: Sage

1) Bordoloi, Sanjeev (2019). Service Management Operations, Strategy, Information Technology. New York: McGraw-Hill. <u>ISBN</u> HYPERLINK "https://en.wikipedia.org/wiki/ISBN\_(identifier)" <u>978-1-260-09242-4</u>.

## 2. PROBLEM STATEMENT DEFINITION

An effective complaints management system is integral to providing quality customer service. It helps to measure customer satisfaction and is auseful source of information and feedback for improving services. Often customers are the first to identify when things are not working properly. Customer can track their state of the issue in real time.

#### **CHAPTER 3**

## IDEATION & PROPOSED SOLUTION

## EMPATHY MAP CANVAS

An empathy map is a simple, easy-to-digest visual that captures knowledge about a user's behaviors and attitudes. It is a useful tool to helps teams better understand their users. Creatingan effective solution requires understanding the true problem and the person who is experiencing it.

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<sup>&</sup>quot;https://en.wikipedia.org/wiki/Inc.\_(magazine)".Retrieved 29 Oct 2012.

The exercise of creating the map helps participants consider things from the user'sperspective along with his or her goals and challenges.



Figure 3.1.1 Empathy Map Canvas

## IDEATION AND BRAINSTORMING

Brainstorm & Idea Prioritization Template: Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

# **Step-1: Team Gathering, Collaboration and Select the Problem Statement**

A principal difference between ideation and brainstorming is that ideation is commonly more thought of as being an individual pursuit, while brainstorming is almost always a groupactivity.



Figure 3.2.1 Team Gathering, Collaboration and Select the Problem Statement

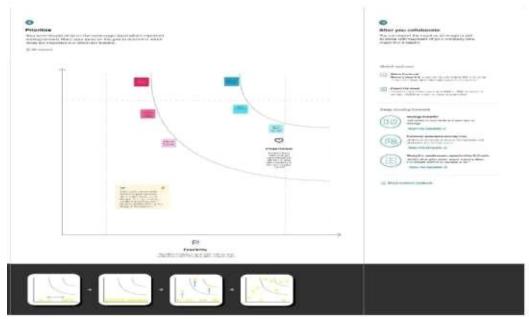
# Step-2: Brainstorm, Idea Listing and Grouping

The idea listing and grouping is used to organize and analyse large numbers of ideas by categorizing them. By organizing and reorganizing ideas, students gain a better appreciation of, and dialogue about, their ideas. As students create idea clusters, new contexts and connections among themes emerge.



Figure 3.2.2 Brainstorm, Idea Listing and Grouping

**Step-3: Idea Prioritization** 



Idea prioritization is just a part of the idea management process. Having a structured idea management process and a systematic way of gathering, evaluating and prioritizing new ideas takes time. To make it work, the entire idea management process should be integrated to the everyday ways of working.

Figure 3.2.1 Idea Prioritization

## PROPOSED SOLUTION

S. N O	PARAMETE R	DESCRIPTIO N
01	Problem Statement (Problem to be solved)	Companies today are modernizing customer care, using advanced methodologies to ensure a positive customer experience starting from the first interaction and throughout the buyer's journey. A Customer care is more than just providing great customer service. It's a proactive approach to providing information, tools, and services to customers at each point they interact with a brand. Hence ,an application is needed for processing the complaints raised by the customers.

	Т	
02	Idea / Solution description	A customer care Registry not only boosts customer satisfaction but also helps in improving customer loyalty. If a company neglects customer care, it can negatively impact the customer service experience. Hence, an application needs to be developed to help the customer in processing their complaints where the customers will be able to raise a ticket with a detailed description of the issue. An Agent will be assigned to the Customer to solve the problem. The admin has the main responsibility to take care of the whole process. He will be able to track the work assigned to the agent.  Whenever the agent is assigned to a customer, they will be notified with an email alert.  Customers can view the status of the ticket till the service is provided. The agent will quickly address the customer's issue and mitigate any effects of the negative experience. Therefore, this application adds up satisfied customers and brings in more customers to an organization.
03	Novelty / Uniqueness	With an integrative approach, the project aims in establishing an end-to-end connection between the customer and the service agent through a chat service. These chatbots can transfer customers to service agents whenever human touch is required. This can help businesses speed up response times and also answer routine questions.
04	Social Impact / Customer Satisfaction	Customer satisfaction is based on understanding, defining, assessing and managing customer needs so that their expectations are met. This project ensures that the policies, objectives and responsibilities of the project will satisfy the customer needs where customer service agents spend less time on routine tasks and answering commonly asked questions.
05	Business Model (Revenue Model)	This model helps in improving the efficiency and productivity of the organization as the use of chatbots can save up to 30% in customer support cost and can help businesses save on customer service costs by speeding up response times and answering up to 80% of routine questions.
06		This project aims at solving all the complaints

Scalability of the Solution	faced by the customers which sequentially ensures rapid business growth. It helps in
	enhancing the flexibility to deliver new
	features faster. It helps in maintaining long-
	term relationships with the customers which in
	turn helps in increasing the operational
	efficiency among the organization.

## PROBLEM SOLUTION FIT

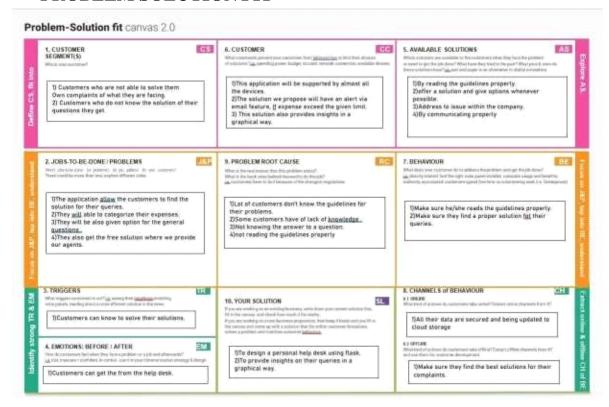


Figure 3.4.1 Problem Solution Fit

**CHAPT** 

REQUIREMENT

**ANALYSIS** 

FUNCTIONAL REQUIREMENT

**ER 4** 

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Login	Login via Google with Email Id or Username and password
FR-4	Admin Login	Login with google API or other social media API
FR-5	User Ticket Raising	Raise the ticket with detailed description for query
FR-6	Notification	Notification Via Email to user
FR-7	Feedback Customer	Feedback through the application

Table 4.1.1 Functional Requirement

# • NON-FUNCTIONAL REQUIREMENT

FR No.	Non-Functional Requirement	Description					
NFR-1	Usability	To provide optimal usability for our proposed solution we					
		have mainly concentrated on easier navigation throughout					
		our website. For user, they can easily login with					
		their credentials and also they can register by					
		themselves either with unique valid email id or					
		with their mobile number if they don't have					
		any prior account.					
		After good navigation we have concentrated on visual					
		clarity and developed web application which					

			T							
			looks pleasant and simple thus making easier							
			accessible to any aged person. For the first time							
			users, Guide tour will also be available in order							
			to provide better user satisfaction.							
			Also, made our web application flexible to all type							
			ofdevices such as android, mac and desktops.							
NFR-2	Security		Before any user trying to login their account to							
			any newdevice ,verification code will be sent							
			either to their registered email id or to their							
			registered mobile number.							
			Only after entering their code, they will be							
			allowed to login. That code will also made							
			expire within particulartime limit. Also							
			notification will be sent for each and							
			every customer							
NFR-3	Reliability		Providing Quality Content							
NFR-4	Availability	Table	on 4FU nation promit Requirement							
	4.2.1 N	1 4010								
NFR-5	Scalability		Good performance for large Customers and workload							

# **CHAPTER 5**

# PROJECT DESIGN

# • DATA FLOW DIAGRAMS

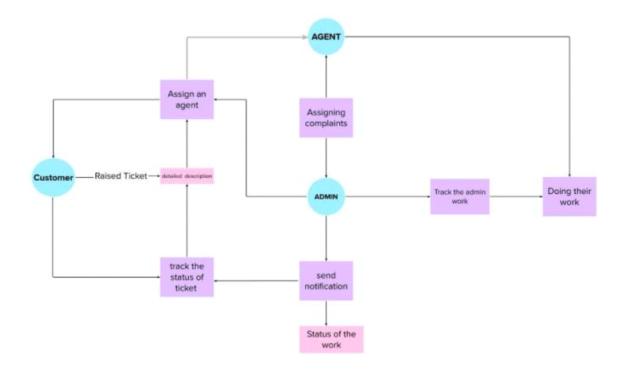
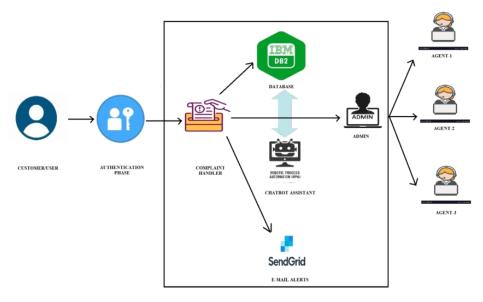


Figure 5.1.1 Data Flow of Customer care registry

# • SOLUTION AND TECHNICALARCHITECTURE



# **USER STORIES:**

U s e r T y p	Functional Requiremen t(Epic)	Use r Stor y Nu mbe r	User Story Task	Acce ptan ce Criter ia	prior ity	Rele ase
Custo	Registration	USN-1	As a user, I can regist er for the applic ation by entering my email, passwor d, and confirming my passwor d.	I can acces s My acco unt	Hig h	Sprin t -1
	Login	USN- 2	As a user I can login the applicatio n by entering registered email and password	I can login to my account and can acces s the dash board	Hig h	Sprin t -1
	Raising Tickets	USN- 3	A s	I can raise	Hig h	Sprin t -1

 1	I				
		а	the		
		u	ticket		
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		er			
		, I			
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		m			
		111			
Track	USN-	As	Loon	Medi	
Tickets	4	а	I can view	um	
		us			
		er i	the		
		ca	statu		
		n	sof		
		tra	my		
		ck	raise		
		my	d		
		tic	probl		
		ket	em		
		sta			
		tus			
		เนง			

		Log ou	t		USN-	As a user, I can logout from my accou nt		I ca n log out fro m my ac co unt		Hig h		Sprin t-2
Adm	in	Login	ASI 1	adm logii app by e regi ema		an nin I can n the lication entering stered ail and sword	my	cess	H	ligh \$		Sprint-
		ssign an gent	AS -2	ASN As ar		n admin, I can the statusAs gent to the		I can assig an agent	n	Hi	gh	Spri nt-2

	Tr ac k the ad mi n wo rk	AS N-3	As an admin, I can track the status of the user raised queriesand the admin work	I can track the admi n work	Hig h	Spr int- 2
	Sen d notifi catio n to cust ome r	AS N-4	As an admin i can send the notification to the customer regarding raised ticket status	I can send notific ation to the custo mer	Hig h	Spr int- 2
	Ban dou btful use r logi ns	AS N-5	As a admin, I can ban the suspicious accountsor users	I can ban the cust ome r	Medi um	
AG ENT	Resolve queries	AG SN- 1	As an Agent, I can resolve the custome rqueries	I can res olve cust om er pro ble m	Hig h	Spr int- 3

Connecti ng with related problem	AGS N-2	As an Agent, I can conne	I can connec t related	Mediu m	
---	------------	-----------------------------------	---------------------------------	------------	--

S		ctto the relate d proble ms	proble ms or queries		
Flag the Tickets	AGS N-3	As a Age nt, I can flag the statu s of the raise d ticke t	I can flagthe ticket	Low	Sprin t-4

Figure 5.2.1 Solution Architecture

15

# **CHAPTER 6**

# PROJECT PLANNING AND SCHEDULING

# **6.1 SPRINT PLANNING AND ESTIMATION**

Spri	User	Functional	User	User Story /	Stor	Priori	Team
nt	Туре	Requireme nts	Story Num ber	Task	y Po i nts	ty	Membe rs

Spri nt-	Custo m	Registration	USN-1	As a customer,	2	High	Selva Muthu
	er			Customer,			1,10,0110,
1	(Web			I can register			Kannan,
-	User)			for the			Rudresh
				application			
				by			
				entering my			
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				d, and			
_				confirming my password.			
C		т .	LIGNI O	<u> </u>	1	TT' 1	D 1 1
Spr int-		Login	USN-2	As a	1	High	Rudresh
1				customer,			
				Ican login			
				to			
				the			
				application			
-				by entering			
				correct email			
				and password			
Spr int-		Dashboard	USN-3	As	3	High	Rohit hSai
1				a			
				customer, 1			
				tickets raised			
				by meant lot			
	Ļ			more			
Spr int-		Ticket creation	USN-4	As a customer I can create	2	High	Vishal Prasant
2				anew ticket			h
				with the			
				detailed			
				description of			
<i>a</i> .			11037.5	my query	2	TT' 1	
Spri		Address	USN-5	As a	3	High	Rudresh,
nt-		column		customer, I			Vishal
3				can have			Prasanth
				conversations			

			with the			
	assigned agent					
			16and get my			
			queries			
			clarified			
Spri	Forget	USN-6	As a	2	Medi	Rohith
					u	

		<u> </u>			ı	<u> </u>	
				mytickets			
Spri	Agent	Login	USN-	As an agent, I	2	High	Rohith
nt-	(Web		1	can login to			Sai
3	User)			the			
				application by			
				enteringcorre			
				ct			
				email and			
				password			
Spri		Dashboard	USN-	As an agent, I	3	High	Vishal
nt-			2	can see all the			Prasanth
3				ticketsassigne			
				d to me by			
				the			
				admin			
Spri		Address	USN-	As an agent, I	3	High	Rudresh,
nt-		Column	3	get to have			Vishal
3				conversations			Prasanth
				with the			
				customer and			
				clear his/her			
				queries			
Spri		Forget	USN-	As an agent, I	2	Mediu	Rohith
nt-		Password	4	can reset my		m	Sai,
4				password by			Vishal
				this option in			Prasanth
				case I forgot			
				my old			
				password			
Spri	Admin	Login	USN-	As an admin,	1	High	Selva
nt-	(Web		1	I			Muthu
1	User)						Kannan,

				can login to			Rohith
				application by			Sai
				enteringcorre			
				ct email and			
Coni		D 11 1	LICAL	password	2	TT' 1	Rohith
Spri nt-		Dashboard	USN- 2	As an admin, I	3	High	Sai,
1			2	can see all the			Vishal
1				tickets raised in the entire			Prasanth
				system and lot			
				more			
Spri nt- 2		Agent Creation	USN- 3	As an admin, I can create an agent for 17clarifying the customer's queries	2	High	Rohith Sai, Rudresh
Spri		Assigning	USN- 4	As an admin,	3	High	Rudresh,
S m 4		Forget password Table	USN-4 6.1.1 Sprin	admin,I can reset my password by this option in case I forgot t Playnoildg & Esti	2 nation	Mediu m	Vishal Prasanth, Selva Muthu Kannan
				password			

# • SPRINT DELIVERY SCHEDULE

Sprint	Total story	Duratio n	Sprin t	Sprin t end	Story points	Sprin t
	point		start	date	complet	releas
	S		date		ed	edate

Sprint-1	10	6 Days	24 Oct 2022	29 Oct 2022	10	29 Oct 2022
Sprint-2	7	6 Days Table 6.2.2 S	livery	05 Nov Sc 2022 hedule	7	05 Nov 2022
			nt De			
Sprint-3	11	6 Days	07 Nov	12 Nov	11	12 Nov
Velocity			2022	2022		2022
•						
I Sprint-4	av 8a 10-day	. 6 Days ori	and 14 Nov	o19 Nov am is	8 20 (points	sp19 Nov 2002).
hmagine	S	ion,	ocity	<b>2022</b> te	per	2012).
we	e	nt dura	2 <b>02</b> 2 ve			

Let's calculate the team's average velocity (AV) per iteration unit (storypoints per day)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

# REPORTS FROM JIRA

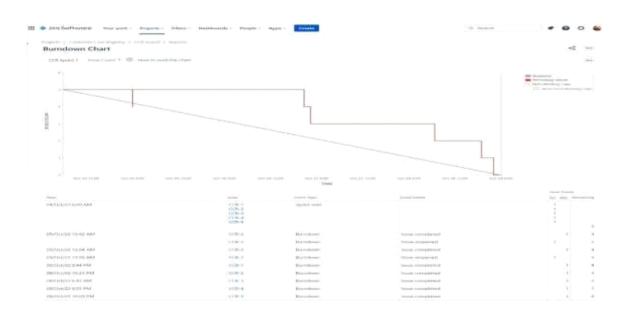


Figure 6.3.1 Reports from JIRA

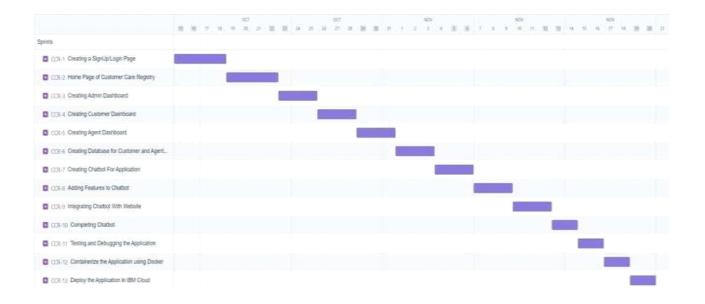


Figure 6.3.2 Reports from JIRA

## **CHAPTER 7**

## CODING AND SOLUTION

College graduates with prior programming expertise or technical degrees are recruited and transitioned into professional positions with Alabama firms and organizations through the highly competitive Coding Solutions job accelerator and talent refinement programme at no cost to the graduates. We provide a pool of varied, well-trained, techs-savvy individuals that wants to launch and advance their career in Alabama. The mission of veteran- and woman-owned Coding Solutions is to mobilize the next generation of IT talent and provide them the tools and resources they require to make your business successful. Innovative talent is necessary for innovative technologies. We wish to provide Coding Solutions prospects to assist you expand your Alabama team. Our applicants are swiftly hired at the top of the list by growing businesses for lucrative, long-term positions.

#### • Features 1

7 Main types of customer needs

□User-friendly

Empathy

	Fairness						
	Control						
	Alternatives						
	Information						
• Fe	atures 2						
□Complaint Tracking							
	Email Alert						

24/7 Monitoring

## **CHAPTER 8**

## **TESTING**

## TEST CASES

A test case has components that describe input, action and an expected response, in order to determine if a feature of an application is working correctly. A test case is a set of instructions on "HOW" to validate a particular test objective/target, which when followed will tell us if the expected behavior of the system is satisfied or not.

## Characteristics of a good test case:

- Accurate: Exacts the purpose.
- Economical: No unnecessary steps or words.
- Traceable: Capable of being traced to requirements.
- Repeatable: Can be used to perform the test over and over.
- Reusable: Can be reused if necessary.

• S.no	Scenario	Input	Excepte doutput	• Actual output
• 1	Admin LoginForm	User name and password	Login	• Login success.
• 2	Employee Login Form	User name and password	Login	• Login success.
• 3	User Registrati onForm	User basic details  Table 8.1.1 Test Cas	Registered successfull y • es	User basic details are stored in the database
• 4	User Login	User name and	Login	• Login success.
	Form	password		

.

## USER ACCEPTANCE TESTING

This is a type of testing done by users, customers, or other authorized entities to determine application/software needs and business processes. Acceptance testing is the most important phase of testing as this decides whether the client approves the application/software or not. It may involve functionality, usability, performance, and UI of the application. It is also known as user acceptance testing (UAT), operational acceptance testing (OAT), and end-user testing.

## DEFECT ANALYSIS

This report shows the number of resolved or closed bugs at each severity level, and howthey were resolved

Resolution	Severity 1	Severity	Severity	Severity 4	Subtotal
		2	3		
By Design	10	3	1	2	17
Duplicate	1	0	3	0	4
External	2	3	0	1	6
Fixed	11	2	4	20	40
Not Reproduce d	0	0	1	0	1
Skipped	0	0	1	1	2
		Table 8.2.1.	1 Defect Ana	lysis	
Won't Fix	0	5	2	1	8
Totals	24	13	12	25	78

.

# • TEST CASE ANALYSIS

This report shows the number of test cases that have passed, failed, and untested

Section	<b>Total Cases</b>	Not Tested	Fail	Pass
Print Engine	10	0	0	10
Client Application	50	0	0	50

Security	1	0	0	1
Outsource Shipping	3	0	0	3
Exception Reporting	8	0	0	8
Final Report Output	4	0	0	4
Version Control	Table 2	8.2.2.1 Testcase anal 0	ysis 0	2

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# • PERFORMANCE METRICS

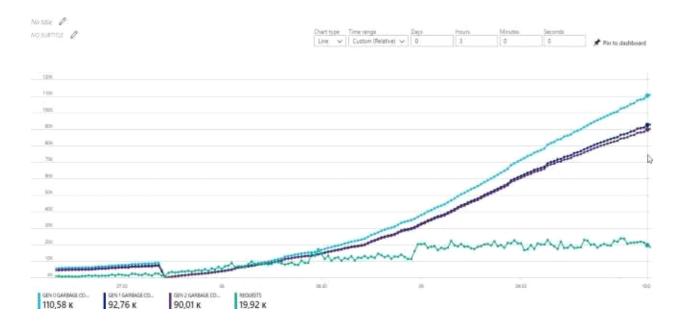


Figure 9.1.1 Performance Metrics



Figure 9.1.2 Performance Metrics

## **CHAPTER 10**

## ADVANTAGES AND DISADVANTAGES

## **ADVANTAGES**

- System is easy to understand and user friendly.
- The system is purely based on prediction which predicts an internet plan for the
- customer.
- Admin can easily view employee report based on the resolution provided on the
- complaint.
- Handle large number of contextual information.
- User friendly and time consuming process.
- Using this project, the user can know about status of complaint through website.
- Keep track of daily information exchange at the server by the administrator.
- Increase in processing and transfer speeds of information over the network.

## **DISADVANTAGES**

- Requires an active internet connection.
- System may provide inaccurate results if the data entered incorrectly.
- Difficult to provide proper intimation system
- Current system is manual process
- Cannot always taking a call
- Tower problem during call conversation

### **CHAPTER 11**

## **CONCLUSION**

Application software has been computed successfully and was also tested successfully by taking "test cases". It is user friendly, and has required option, which can be utilized by the user to perform the desired operations. Application meets the information requirements specified to a great extent. The system has been designed keeping in view the present and future requirements in mind and made very flexible. The goals that are achieved by the software are Instant access,

improved productivity, Optimum utilization of resources, Efficient management of records, Simplifications of the operations, Less processing time and getting required information, User friendly, Portable and flexible for further enhancement. The system has the benefits of easy access because it is be developed as a platform independent web application, so the admin can maintain a proper contact with their users, which may be access anywhere. All communications between the police and administrator has done through the online, so this communication cost also is reduced.

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Machine learning (ML), emerging customer service trends 2022 can help businesses in improving

overall CX. Chat applications powered by AI are trending. Large companies, as well as startups, are leveraging this to reduce costs and improve service for customers. Predictive analytics has particularly proved to be very useful. Through this, quarries that will result in a call for assistance can be predicted easily. Implementing ML in customer service trends will give you a significant difference in business growth.

## **CHAPTER 13 APPENDIX**

## **SOURCE CODE**

```
base.html

<!DOCTYPE html>
<head>

link rel="stylesheet" href="static/css/main.css"/>
{% block head %}

{% endblock %}

</head>

<body>
{% block body %}

{% endblock %}

<script>
```

```
var coll = document.getElementsByClassName("collapsible");
var i;
for (i = 0; i < \text{coll.length}; i++) {
coll[i].addEventListener("click", function () {
this.classList.toggle("active");
var content = this.nextElementSibling;
if (content.style.display === "block") {
content.style.display = "none";
} else {
content.style.display = "block";
}
});
}
</script>
<footer style="text-align: right;">
<a href="/about">Wanna know more about us? Click here</a>
</footer>
</body>
</html>
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
<hr>>
<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>
</div>
<br>>
<div>
```

```
<button class="forbutton" type="submit"> Sign In
>></button>
</div>
</form>
<br>>
<div>
New user? <a href="/signup">Sign up</a>
</div>
<br>>
</div>
</div>
</div>
{% endblock %}
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!!
```

```
<hr>
<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>
```

```
<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>
</div>
<br>
</div>
</div>
</div>
{% endblock %}
dashboard.html
{% extends 'base.html' %}
{% block head %}
<title>
Dashboard
</title>
{% endblock %}
{% block body %}
<br>
<div class="fordashboardtop">
<div class="fordashboardtopelements1">
```

```
Welcome {{ name }},
</div>
<div class="fordashboardtopelements2">
<a href="/login"><button class="forbutton">Sign out</button></a>
</div>
</div>
<br>
<div class="outerofdashdetails">
<div class="fordashboarddetails">
<br>
<!-- table of customers complaints -->
<thead>
Complaint ID
Complaint Detail
Assigned Agent
Status
Solution
</thead>
{% for i in complaints %}
{{ i['C_ID'] }}
{{ i['TITLE'] }}
```

```
{{ i['ASSIGNED_AGENT'] }}
>
{% if i['STATUS'] == 1 %}
Completed
\{\% \text{ elif i['STATUS']} == 0 \% \}
Not completed
{% else %}
In progress
{% endif %}
{{ i['SOLUTION'] }}
{% endfor %}
<br>>
<center>
<div class="fordashboarddetails">
<button type="button" class="collapsible">Add new complaint
+</button>
<div class="content">
<br>
```

```
<form action="/addnew" method="post">
<div class="forform">
<div class="textinformleft">
Title
</div>
<div class="textinformright">
<input type="name" name="title">
</div>
</div>
<div class="forform">
<div class="textinformleft">
Complaint
</div>
<div class="textinformright">
<textarea name="des"
style="border-radius: 1rem;width:
90%; height: 150%; background-color: black; color: white; "></textarea>
</div>
</div>
<br>
<br>>
<div>
<button class="forbutton" type="submit"> Submit
</button>
</div>
</form>
<br>
```

```
</div>
</div>
</center>
</div>
</div>
{% endblock %}
admin.html
{% extends 'base.html' %}
{% block head %}
<title>
Admin Dashboard
</title>
{% endblock %}
{% block body %}
<br>
<div class="fordashboardtop">
<div class="fordashboardtopelements1">
Welcome Admin,
</div>
<div class="fordashboardtopelements2">
<a href="/login"><button class="forbutton">Sign out</button></a>
</div>
</div>
<br>
<div class="outerofdashdetails">
<div class="fordashboarddetails">
<br>
```

```
<!-- table of customers complaints -->
<thead>
</thead>
<a href="/agents">Agent Details</a>
<a href="/tickets">Customer Ticket Details</a>
<br>>
</div>
</div>
{% endblock %}
agents.html
{% extends 'base.html' %}
{% block head %}
<title>
Dashboard
</title>
{% endblock %}
{% block body %}
```

```
<br>
<div class="fordashboardtop">
<div class="fordashboardtopelements1">
Welcome Admin,
</div>
<div class="fordashboardtopelements2">
<a href="/login"><button class="forbutton">Sign out</button></a>
</div>
</div>
<br>
<div class="outerofdashdetails">
<div class="fordashboarddetails">
<br>>
<!-- table of customers complaints -->
<thead>
Name
Username
Email
Phone
Domain
Status
</thead>
{% for i in agents %}
```

```
{{ i['NAME'] }}
{{ i['USERNAME'] }}
{{ i['EMAIL'] }}
>
{{ i['PHN'] }}
{{ i['DOMAIN'] }}
{% if i['STATUS'] == 1 %}
Assigned to job
{\% \text{ elif i['STATUS']} == 0 \%}
not Available
{% else %}
Available
{% endif %}
{% endfor %}
```

```
<br>
<center>
<div class="fordashboarddetails">
<button type="button" class="collapsible">Add new agent
+</button>
<div class="content">
<br>>
<form action="/addnewagent" 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">
Email
```

```
</div>
<div class="textinformright">
<input type="name" name="email">
</div>
</div>
<div class="forform">
<div class="textinformleft">
Phone
</div>
<div class="textinformright">
<input type="name" name="phone">
</div>
</div>
<div class="forform">
<div class="textinformleft">
Domain
</div>
<div class="textinformright">
<input type="name" name="domain">
</div>
</div>
<div class="forform">
<div class="textinformleft">
Password
</div>
<div class="textinformright">
<input type="password" name="password">
```

```
</div>
</div>
<br>
<br>
<div>
<button class="forbutton" type="submit"> Submit
</button>
</div>
</form>
<br>
</div>
</div>
</center>
</div>
</div>
{% endblock %}
agentdash.html
{% extends 'base.html' %}
{% block head %}
<title>
Agent Dashboard
</title>
{% endblock %}
{% block body %}
<br>
<div class="fordashboardtop">
<div class="fordashboardtopelements1">
```

```
Welcome {{ name }},
</div>
<div class="fordashboardtopelements2">
<a href="/login"><button class="forbutton">Sign out</button></a>
</div>
</div>
<br>
<div class="outerofdashdetails">
<div class="fordashboarddetails">
<br>
<!-- table of customers complaints -->
<thead>
Complaint ID
Username
Title
Complaint
Solution
Status
</thead>
{% for i in complaints %}
{{ i['C_ID'] }}
```

```
{{ i['USERNAME'] }}
{{ i['TITLE'] }}
>
\{\{ i['COMPLAINT'] \}\}
{{ i['SOLUTION'] }}
>
{% if i['STATUS'] == 1 %}
Completed
{% else %}
Not Completed
{% endif %}
{% endfor %}
<br>>
<center>
<div class="fordashboarddetails">
<button type="button" class="collapsible">Solve an Issue
≤</button>
```

```
<div class="content">
<br>
<form action="/updatecomplaint" method="post">
<div class="forform">
<div class="textinformleft">
Complaint ID
</div>
<div class="textinformright">
<input type="name" name="cid">
</div>
</div>
<div class="forform">
<div class="textinformleft">
Solution
</div>
<div class="textinformright">
<input type="text" name="solution">
</div>
</div>
<br>
<br>>
<div>
<button class="forbutton" type="submit"> Submit
</button>
</div>
</form>
<br>
```

```
</div>
</div>
</center>
</div>
</div>
{% endblock %}
tickets.html
{% extends 'base.html' %}
{% block head %}
<title>
Agent Dashboard
</title>
{% endblock %}
{% block body %}
<br>
<div class="fordashboardtop">
<div class="fordashboardtopelements1">
Welcome Admin,
</div>
<div class="fordashboardtopelements2">
<a href="/login"><button class="forbutton">Sign out</button></a>
</div>
</div>
<br>
<div class="outerofdashdetails">
<div class="fordashboarddetails">
<br>
```

```
<!-- table of customers complaints -->
<thead>
Complaint ID
Username
Title
Complaint
Solution
Status
</thead>
{% for i in complaints %}
{{ i['C_ID'] }}
{{ i['USERNAME'] }}
{{ i['TITLE'] }}
>
{{ i['COMPLAINT'] }}
>
{{ i['SOLUTION'] }}
>
```

```
{% if i['STATUS'] == 1 %}
Completed
{% else %}
Not Completed
{% endif %}
{% endfor %}
<br>
<center>
<div class="fordashboarddetails">
<button type="button" class="collapsible">Assign an agent
≤</button>
<div class="content">
<br>
<form action="/assignagent" method="post">
<div class="forform">
<div class="textinformleft">
Complaint ID
</div>
<div class="textinformright">
<input type="name" name="ccid">
</div>
</div>
<div class="forform">
```

```
<div class="textinformleft">
<label for="agent">Choose an agent:</label>
</div>
<div class="textinformright">
<select name="agent" id="agent">
{% for i in freeagents %}
<option value={{ i['USERNAME'] }}>{{
i['USERNAME'] }}</option>
{% endfor %}
</select>
</div>
</div>
<br>>
<br>>
<div>
<button class="forbutton" type="submit"> Submit
</button>
</div>
</form>
<br>>
</div>
</div>
</center>
</div>
</div>
{% endblock %}
main.css
```

```
.sign {
border-radius: 1rem;
background-color: rgba(255, 185, 46, 0.976);
text-align: center;
padding: 1%;
}
.fortitle {
font-size: medium;
font-weight: 500;
font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif;
padding: 5px;
}
.forp {
font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif;
.textinformleft {
text-align: left;
padding-left: 5%;
width: 50%;
border-radius: 1rem;
font-size: medium;
font-weight: 500;
font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif;
}
.textinformright {
width: 50%;
padding-right: 10px;
```

```
border-radius: 1rem;
font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif;
.textinformright2 {
width: 100%;
text-align: center;
padding-right: 10px;
border-radius: 1rem;
font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif;
}
input {
border-radius: 1rem;
color: white;
background-color: black;
padding-left: 15px;
input:focus {
border-color: yellow;
.forform {
display: flex;
padding: 15px;
border-radius: 1rem;
.forpadding {
padding-top: 5%;
padding-left: 25%;
```

```
padding-right: 25%;
body {
background-image: url('bg9.jpg');
background-repeat: no-repeat;
/* background-color: black; */
/* background-image: url('F:\Own\IBM project\Sample2\static\css\bg.png');
*/
.forbutton {
background-color: black;
color: white;
border-radius: 1rem;
padding: 7px;
font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif;
button:hover {
background-color: white;
color: black;
box-shadow: white;
cursor: pointer;
/* for dashboard */
.fordashboardtop {
border-radius: 1rem;
display: flex;
background-color: rgba(255, 185, 46, 0.976);
```

```
. for dashboard to pelements 1\ \{
font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif;
width: 90%;
font-size: large;
padding: 2%;
.fordashboardtopelements2 {
width: 10%;
padding-top: 1%;
padding-bottom: 1%;
.fordashboarddetails {
padding: 2%;
border-radius: 1rem;
background-color: rgba(255, 185, 46, 0.976);
}
.outerofdashdetails {
/* padding-top: 2%; */
padding-left: 5%;
padding-right: 5%;
.fortable {
width: 100%;
padding: 1%;
text-align: center;
font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif;
```

```
}
.pad {
padding: 7px;
}
.forbutton2 {
background-color: black;
color: white;
border-radius: 1rem;
padding: 7px;
width: 200%;
font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif;
}
.foraddbutton{
/* width: 30%; */
background-color: black;
color: white;
border-radius: 1rem;
padding: 7px;
font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif;
}
.collapsible {
background-color: black;
color: white;
border-radius: 1rem;
padding: 7px;
width: 30%;
font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif;
```

```
/* background-color: #777; */
/* color: white; */
cursor: pointer;
/* padding: 18px; */
/* width: 100%; */
/* border: none;
text-align: left; */
/* outline: none;
font-size: 15px; */
}
.collapsible:hover {
background-color: white;
}
.content {
/* padding: 0 18px; */
display: none;
border-radius: 1rem;
background-color: rgba(255, 185, 46, 0.976);
width: 50%;
/* overflow: hidden; */
/* background-color: #f1f1f1; */
app.py
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=ea286ace-86c7-4d5b-8580-
3fbfa46b1c66.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=31505;SECURIT
Y=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=zyr46226;PWD=fIKQqRn
XO
VfcA0Ht;", ", ")
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'[^{\circ}@]+@[^{\circ}@]+\.[^{\circ}@]+', 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:
userid = username
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('/')
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 <math>\Leftrightarrow 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)
Sendgrid Integration using python
CODE:
```

```
import smtplib
import sendgrid as sg
import os from sendgrid
import SendGridAPIClient from sendgrid.helpers.mail import Mail, Email, To, Content
SUBJECT =
"customer care registry"
s = smtplib.SMTP('smtp.gmail.com', 587)
def sendmail(TEXT,email):
from_email = Email("tour7107@gmail.com")
to_email = To(email)
subject = "Sending with SendGrid is Fun"
content = Content("text/plain",TEXT)
mail = Mail(from_email, to_email, subject, content)
try:
sg=SendGridAPIClient('SG.3wVvuDLTQ
aoSvEgQ8xy7w.2Mp38QJmhoG_p09E3x7HA2OAGRCx9TD7QTenuE
Hfp9k')
response = sg.send(mail)
print(response.status_code)
print(response.body)
print(response.headers)
except Exception as e:
print(e)
# print("sorry we cant process your candidature")
# s = smtplib.SMTP('smtp.gmail.com', 587)
# s.starttls()
## s.login("il.tproduct8080@gmail.com", "oms@1Jessi")
# s.login("tour7107@gmail.com", "1234567890123456")
```

```
# message = 'Subject: { }\n\n{ }'.format(SUBJECT, TEXT)
## s.sendmail("il.tproduct8080@gmail.com", email, message)
# s.sendmail("tour7107@gmail.com", email, message)
# s.quit()
# def sendgridmail(user,TEXT):
## # from_email = Email("shridhartp24@gmail.com")
## from_email = Email("tour7107@gmail.com")
##to_email = To(user)
# # subject = "Sending with SendGrid is Fun"
## content = Content("text/plain", TEXT)
# # mail = Mail(from_email, to_email, subject, content)
## Get a JSON-ready representation of the Mail object
# # mail_json = mail.get()
## # Send an HTTP POST request to /mail/send
# # response = sg.client.mail.send.post(request_body=mail_json)
# # print(response.status_code)
# # print(response.headers)
# message = Mail(
# from_email='tour7107@gmail.com',
# to_emails='melciyajaffrin@gmail.com',
# subject='Sending with Twilio SendGrid is Fun',
# html_content='<strong>and easy to do anywhere, even with Python</strong>')
# try:
# sg=SendGridAPIClient('SG.3wVvuDLTQ
aoSvEgQ8xy7w.2Mp38QJmhoG_p09E3x7HA2OAGRCx9TD7QTenuE
Hfp9k')
```

```
# response = sg.send(message)
# print(response.status_code)
# print(response.body)
# print(response.headers) # except
Exception as e:
# print(e)
```