CUSTOMER CARE REGISTRY TEAM ID:PNT2022TMID43046 IBM NALAIYA THIRAN

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In partial fulfilment for the award of the degree

Of

BACHELOR OF TECHNOLOGY

IN

INFORMATION TECHNOLOGY

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1.INTRODUCTION

1.1 PROJECT OVERVIEW

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.

Admin: 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: They 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.

1.2 PURPOSE

Customer service is reactive. Here, the focus is on helping customers solve problems or answer questions before purchase, either in a self-serve fashion or via the customer support team.

If a company neglects customer care, it can negatively impact the customer service experience.

2. LITERATURE SURVEY

2.1 EXISTING PROBLEM

- 1) When the Response Times Are Long.
- 2) When the Customer Gets Transferred from One Department to Another.
 - 3) When There Is Lack of Customer Centricity.
 - 4) When Customer Service Is Not Aligned to Customer Journey.

2.2 REFERENCE

TITLE:

1. Relieving the Overloaded Help Desk : A Knowledge Management Approach

AUTHORS:

Nelson K. Y. Leung

Wollongong,

ABSTRACT:

The establishment of an organizational help desk (HD) is to provide technical support to users when they encounter technical problems related to hardware, software and network connections. Due to the lack of resources, users often have to wait for a considerably long time before their enquiries and problems are answered and solved. This paper discusses the background of HD and its existing challenges. The application of Knowledge Management (KM) techniques and Knowledge Management System (KMS) enables HD to manage its knowledge effectively. In addition, the combination is capable of relieving the overloaded HD by shifting some of the troubleshooting responsibilities to users

REFERENCE LINK:

https://scholarworks.lib.csusb.edu/cgi/viewcontent.cgi?article=131 5&context=ciima

TITLE:

2. The development of a user self-help knowledge management system for Help Desk: deployment of knowledge management approach and software agent technology.

AUTHORS:

Kar Yin Leung

Sim K. Lau

ABSTRACT:

Most help desks have admitted their call volume has increased in the past decade while "help unavailable when needed" is the major reason for service delivery failure and user dissatisfaction. The habit of calling help desk for simple problems has prompted the investigation of transferring part of first-level troubleshooting duty from help desk to user. This research proposes the development of user self-help knowledge management system that allows user to solve simple and routine technical enquiries. The proposed approach incorporates software agent to allow autonomous handling of enquiries so that the most appropriate solution and user communication can be facilitated.

REFERENCE LINK:

https://ro.uow.edu.au/cgi/viewcontent.cgi?referer=&httpsredir=1 &article=2104&context=comparers

TITELE:

3. Where IT outsourcing is and where IT is going: A study across functions and department sizes

AUTHORS:

K.E. Fish's , John Seydel

ABSTRACT:

Although there are forecasts of overall information technology (IT) outsourcing growth, there is no published research on which particular functions are being outsourced now or in the near future. Additionally, there is no literature on how outsourcing growth and how it may be related to department and/or firm size. The authors survey 181 upper level IT professionals across the United States to assess what they are outsourcing now and what they will likely outsource over the next three years. The results show that the areas of applications development, applications maintenance, personal computer (PC) maintenance, and systems maintenance will experience tremendous growth, while data centre operations, systems development and telecommunications/LAN will experience very healthy growth. PC acquisition and project management will experience a lesser expansion. This growth will be led by what are now large IT departments. These results have implications for IT professionals and firms across the US and around the world.

REFERENCE LINK:

https://www.researchgate.net/publication/292485418_Where_IT_outsourcing_is _and_where_IT_is_going_A_study_across_functio ns_and_department_sizes

TITLE:

4. Information Technology Help Desk Survey: To Identify the Classification of Simple and Routine Enquiries

AUTHORS:

Nelson K.Y Leung Sim Kim Lau

ABSTRACT:

Information technology has changed the way organizations function. This has resulted in reliance of help desks to support users in dealing with a wide range of information technology-related problems such as hardware, software and telecommunication. The help desk generally has to cover a wide range of information technology products and services. However, due to resource constraint, in particular the lack of help desk staff, users often have to wait for a long time before their enquiries and problems are answered and solved. Literature has shown that the majority of incoming enquiries are considered to be "simple and routine", and do not require specialized knowledge. The aim of this paper is to present the results of a survey that identifies the classification of simple and routine technical enquiries in a help desk environment. This paper also discusses

the development of help desks, ranging from support models to support structure.

REFERENCE LINK:

https://www.tandfonline.com/doi/abs/10.1080/08874417.2007.1164 5982?journalCode=ucis20

TITLE:

5. The Development of a User Self-Help Knowledge Management System for Help Desk: Deployment of Knowledge Management Approach and Software Agent Technology

AUTHORS

Sim Lau

ABSTRACT

Most help desks have admitted their call volume has increased in the past decade while "help unavailable when needed" is the major reason for service delivery failure and user dissatisfaction. The habit of calling help desk for simple problems has prompted the investigation of transferring part of first-level troubleshooting duty from help desk to user. This research proposes the development of user self-help knowledge management system that allows user to solve simple and routine technical enquiries. The proposed approach incorporates software agent to allow autonomous handling of enquiries so that the most appropriate solution and user communication can be facilitated.

REFERENCE LINK https://core.ac.uk/download/pdf/301353143.pdf

2.3 PROBLEM STATEMENT DEFINITION



3. IDEATION & PROPOSED SOLUTION

3.1 EMPATHY MAP CANVAS

THINK AND FEEL:

- ➤ They want you to give them consistant answer.
- ➤ Clear UI interface and easy interaction.
- They like you to be proactive.

HEAR:

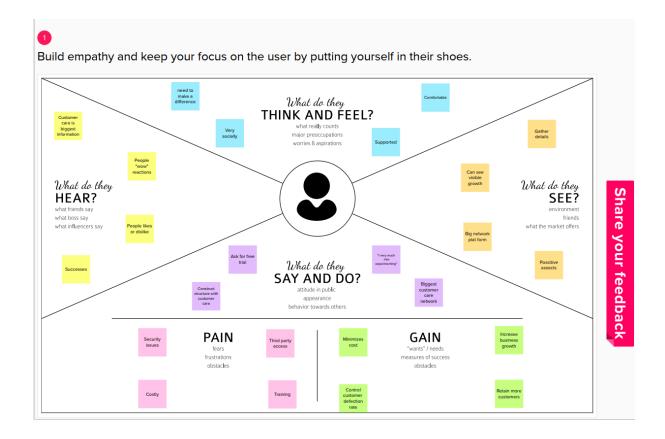
- Customer wants to know about our service.
- ➤ Customer can expect best service based on our skills.

SEE:

- ➤ How the company will maintain their position in market.
- ➤ Is the environment will be in friendly manner?
- ➤ What my friends and family think about my employer.

SAY AND DO:

- ► Had a chat support to answer some quarks referred to the perform.
- ➤ Providing communication directly to the user and customer.



PAIN:

- Exploring available date.
- Lock of strategies.
- ➤ Lots of manual work.

GAIN:

- Easy of conversation.
- ➤ Benefit for the customer.
- ➤ Help center.

3.2 IDEATION & BRAINSTROMING

IDEA 1:

- ➤ Integrate SCRM with customer care
- Perform analysis on customer data
- Integrate the entire customer problems and information
- ➤ Promote transparency and participation
- ➤ Don't rush the implementation process
- ➤ Follow up with customer as early as you can

IDEA 2:

- ➤ If a customer contacts you get back to them within 24 hours
- ➤ Update your customers data after every follow up
- ➤ Always send a thank you note to customers after the care
- ➤ Using right customer services skills
- ➤ Select customer communication channels
- ➤ Learn from your customers feedback

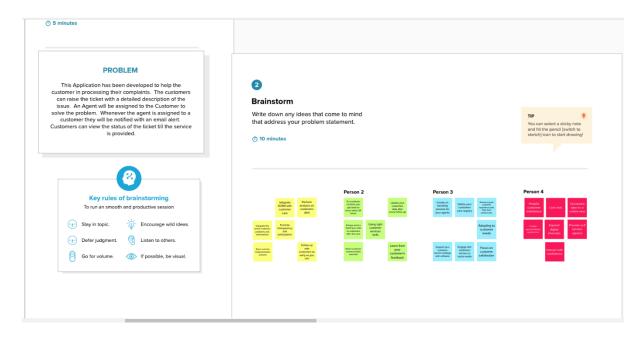
IDEA 3:

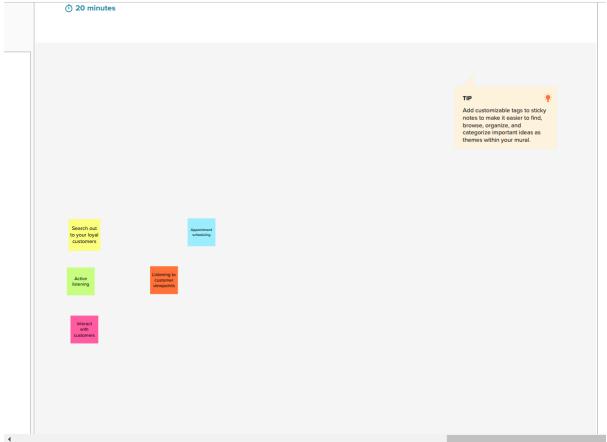
- ➤ Create on boarding process for your agents
- ➤ Define your customers care registry
- ➤ Ensure a great customer experience with help desk outsourcing
- ➤ Adopting to customer needs
- Focus on customer satisfaction
- ➤ Engage with customers service on social media

IDEA 4:

- ➤ Help customer maintaince
- ➤ Live chat
- Connected data for a unified view
- ➤ Create personalized experience
- ➤ Expand digital channels
- ➤ Provide self service options

➤ Interact with confidence

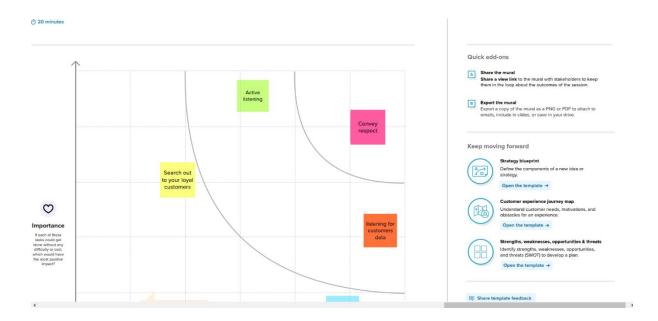




GROUP IDEAS:

➤ Search out to your loyal customers

- ➤ Active listening
- ➤ Interact with customer
- ➤ Listening to customer viewpoints
- ➤ Appointment scheduling



3.3 PROPOSED SOLUTION

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	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
Idea / Solution description	What we currently know about each of • our customers. How helpful is this information? What • else would be helpful for us to know so we can better match their needs to our products and services? Who else has insights about our • customers that could help us? For example, there may be long serving team members who have highly established customer relationships that can shed more insights. Where do we store this information? • Also consider how safe and compliant this storage of information is. What tools do we have access to that
	• can help us capture important customer

		information? For example, there are simple spreadsheets to full CRM systems that can help you capture and keep up to date this information
3.	Novelty / Uniqueness	When we talk about the customer experience, the customer journey or putting the customer at the centre of all efforts, we usually think of terms like omnichannel, digitisation of processes or personalisation; this often sounds more like a business idea than a real commitment to service. That in and of itself is the first big mistake. Profitability, the pursuit of profit and success are the goals of a company. But none of these are conceivable, let alone long-term achievable, unless the customer is at the centre of the process through a dedicated solution
4.	Social Impact / Customer Satisfaction	a measurement that determines how happy customers are with a company's products, services, and capabilities. Customer satisfaction information, including surveys and ratings, can help a company determine how to best

		improve or changes its products and services
5.	Business Model (Revenue Model)	Customer Care Registry Application Website
6.	Scalability of the Solution	Great customer service can result in positive reviews and word-of-mouth recommendations for your business that can lead to new business. A positive public persona can strengthen the way people see your company, products or services.

3.4 PROBLEM SOLUTION FIT

1. CUSTOMER SEGMENT(S)



J&P

What constraints prevent your outloners from taking action or limit their choices of solutions? i.e. spending power, budget, no cash, network connection, available desices.

1) This application will be

This solution also

graphical way.

provides insights in a

the devices.

supported by almost all

CC

6. CUSTOMER CONSTRAINTS

2)

5. AVAILABLE SOLUTIONS

1) By reading the guidelines properly.

AS, differentiate

- 2) Address to issue within the company.
- By communicating properly.

- 1) Customers who are not able to solve them own complaints of what they are facing.
- Customers who do not know the solution of their questions they get.

2. JOBS-TO-BE-DONE / PROBLEMS

obs-to-be-done (or problems) do you address for your ers? There could be more than one, explore different sides.

- 1) The application allow the customers to find the solutions for the queries.
- They will be also given option for the general questions.
- 3) They also get the free solution where we provide our agents.

9. PROBLEM ROOT CAUSE

What is the real reason that this problem exist What is the back story behind the need to do i.e. customers have to do it because of the change in regulations.

- 1) Lot of customers don't know the guidelines for their problems.
- Some customers have of lack of knowledge.
- 3) Not knowing the answer to a questions.
- Not reading the guidelines properly.

RC

or do to address the problem and not the job

- 1) Make sure he/she reads the guidelines properly.
- Make sure they find a proper solution lot their queries.

3. TRIGGERS



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What triggers customers to act? i.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news.

1) Customers can know to solve their solutions

4. EMOTIONS: BEFORE / AFTER



How do customers feel when they face a problem or a job and afterwards? i.e. lost, insecure > confident, in control - use it in your communication strategy & design.

1) Customers can get the from the help desk.

10. YOUR SOLUTION



If you are working on an existing business, write down your current solution first, fill in the canvas, and check how much it fits reality. If you are working on a new business proposition, then keep it blank until you fill in the canvas and come up with a solution that fits within customer limitations, solves a problem and matches customer behaviour.

- To design a personal help desk using flask.
- To provide insights on their queries in a graphical way.

8.CHANNELS of BEHAVIOUR



What kind of actions do customers take online? Extract online channels from #7

1) All their data are secured and being updated to cloud storage.

8.2 OFFLINE What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development.

1) Make sure they find the best solutions for their complaints.

NT

4. REQUIREMENT ANALYSIS

4.1 FUNCTIONAL REQUIREMENT

Following are the functional requirements of the proposed solution

FR NO	Functional Requirements(Epic)	Sub Requirements(Story/SubTask)		
1.	User Registration	Registration through from Registration through Gmail Registration through Google		
2.	User confirmation	Confirmation via Email Conformation via OTP		
3.	User login	Login via Google Login with Email ID and Password		
4.	Admin login	Login via Google Login with Email ID and Password		

5.	Query form	Description of the issues Contact information
6.	E-mail	Login alertness

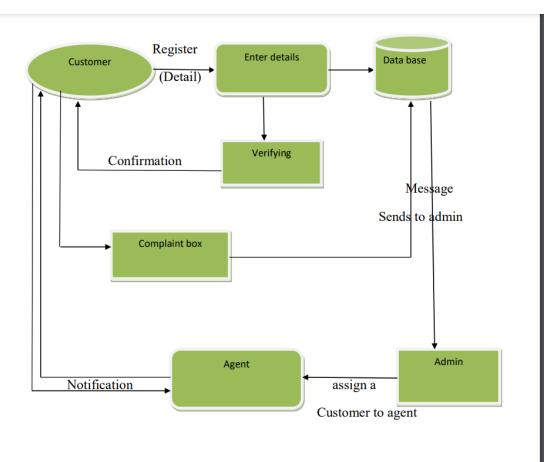
NON-FUNCTIONAL REQUIREMENT

Following are the non-functional requirements of the proposed solution

FR NO	Non-Functional Requirement	Description	
1.	Usability	To provide the solution to the problem	
2.	Security	Track of login authentication	
3.	Reliability	Tracking of decade status through email	
4.	Performance	Effective Development of web application	
5.	Availability	24/7 Service	
6.	Scalability	Scalability	

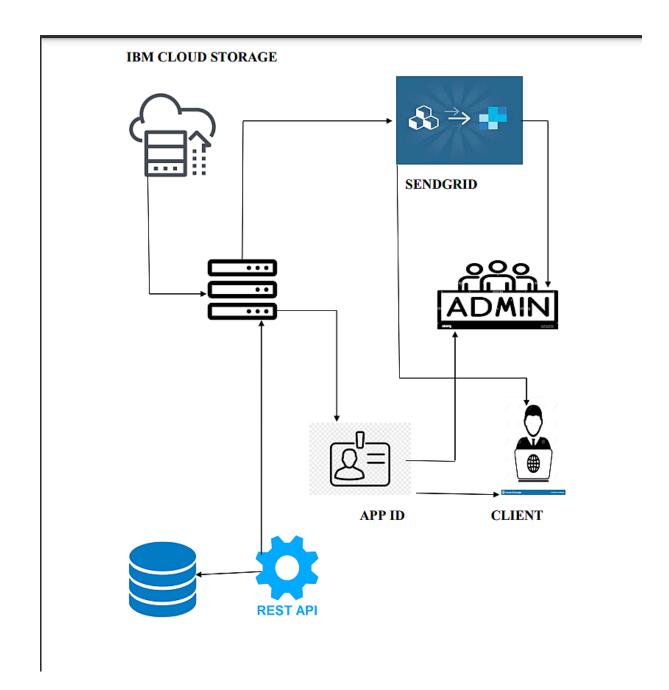
5. PROJECT DESIGN

5.1 DATA FLOW DIAGRAMS



Finally customer connected to agent

5.2 SOLUTION & TECHNICAL ARCHITECTURE



FR NO	COMPONENT	DESCRIPTION	TECHNOLOGY
1.	User Interface		HTML, CSS, Java Script/angular Js react Js etc

2.	Application logic-1	Logic for a process in the application	Python
3.	Application logic -2	Logic for a process in the application	IBM Watson STT service
4.	Application logic- 3	Logic for a process in the application	IBM Watson assistant
5.	Data base.	Data type, configurations etc.	MYSQL
6.	Cloud Database	Data base service on cloud	IBM DB2
7.	File storage	File storage requirements	IBM block storage or other storage service
8.	Infrastructure(server/cloud)	Application deployment on local system/Cloud server	Local, Cloud foundry etc

5.3 USER STORIES

User Type	Functional Requirem ent (Epic)	User Story Numb er	User Story/ Task	Acceptance criteria	Priori ty	Relea se
Custom er (Mobil e User)	Registratio n	USN-1	As a customer, I can register for the application	I can access my account/dashb oard	High	Sprint-1

		by entering my Email, password, and confirming my password.			
Login	USN-2	As a customer, I can log in to the application by entering correct Email and password	. I can access my account /dash board	High	Sprint-1
Dash Board	USN-3	As a customer, I can see all the complaints raised by me.	I get all the info needed in my dash board.	Low	Sprint-2
Complaint	USN-4	creation As a customer, I can place my complaints with the detailed description of my query.	I can ask my query.	Medium	Sprint-2

	Address	USN-5	As a customer, I can have conversati on with the assigned agent and get my queries clarified.	My queries are clarified.	High	Sprint-3
	Forget password	USN-6	As a customer, I can reset my password by this option in case I forget my old password	I get access to my account again.	Medium	Sprint-4
	Complaint detail.	USN-7	As a customer, I can see the current starts of queries.	I get a better understanding.	Medium	Sprint-4
Agent (Web User)	Login	USN-1	As an agent I can login to the application by entering correct Email and password.	I can access my account/dashb oard	High	Sprint-3

Dash Board	USN-2	As an agent, I can see the complaint details assigned to me by admin.	I can see the tickets to which I could answer.	High	Sprint-3
Address	USN-3	As an agent, I get to have conversati ons with the customer and clear his/custom er doubts.	I can clarify the issues.	High	Sprint-3
Forget Password	USN-4	As an agent I can reset my password by this option in case I forget my old password.	I get access to my account again.	Medium	Sprint-4

6. PROJECT PLANNING & SCHEDULING 6.1 SPRINT PLANNING & ESTIATION

Product Backlog, Sprint Schedule, and Estimation

Sprint	Functional Requireme nt (Epic)	User story Numb er	User story/ Task	Story poin ts	Priorit y	Team Members
Sprint -1	User Panel	USN-1	The user will login into the website and go through the services available on the web page	20	High	Sneha Ruthr an Pooja Cibiram
Sprint -2	Admin panel	USN-2	The role of the admin is to check out the database about the availability and have a track of all the things that the users are going to service	20	High	Sneha Ruthran

Sprint -3	Agent panel	USN-3	The user can directly talk to agent regarding the services.Get the recommenda tions based on information provided by the user	20	High	Pooja Cibiram
Sprint -4	Final delivery	USN-4	Container of application using docker Kubernetes and deployment of the application. C reate the documentati on on and final submit the application	20	High	Sneha Ruthran Pooja Cibiram

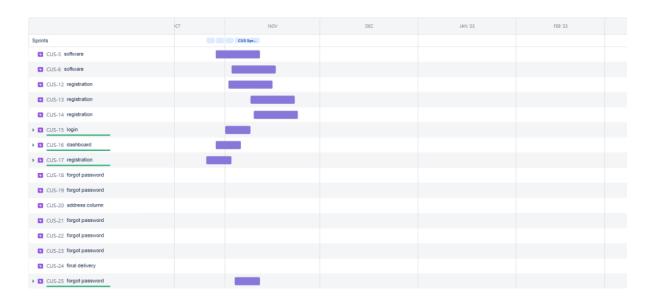
6.2 SPRINT DELIVERY SCHEDULE

Sprint-1	20	6 Days	26/10/22	31/10/22	20	08/11/22
Sprint-2	20	6 Days	29/10/22	02/11/22	20	10/11/22
Sprint-	20	6 Days	01/11/22	05/11/22	20	13/11/22
Sprint-	20	6 Days	04/11/22	07/11/22	20	19/11/22

6.3 REPORTS FROM JIRA

BURNDOWN GRAPH





7. CODING & SOLUTIONING (Explain the features added in the project along with code)

7.1 Feature 1

USER LOGIN AND REGISTRATION

HTML

```
<label for="pass"</pre>
class="label">Password</label>
<input id="pass" type="password"</pre>
class="input" data-type="password">
</div>
<div class="group">
<input id="check" type="checkbox"</pre>
class="check" checked>
<label for="check"><span</pre>
class="icon"></span> Keep me Signed in</label>
</div>
<div class="group">
<input type="submit" class="button"</pre>
value="Sign In">
</div>
<div class="hr"></div>
<div class="foot-lnk">
<a href="#forgot">Forgot Password?</a>
</div>
</div>
<div class="sign-up-htm">
<div class="group">
<label for="user"</pre>
class="label">Username</label>
<input id="user" type="text" class="input">
</div>
<div class="group">
<label for="pass"</pre>
class="label">Password</label>
```

```
<input id="pass" type="password"</pre>
class="input" data-type="password">
</div>
<div class="group">
<label for="pass" class="label">Repeat
Password</label>
<input id="pass" type="password"</pre>
class="input" data-type="password">
</div>
<div class="group">
<label for="pass" class="label">Email
Address</label>
<input id="pass" type="text" class="input">
</div>
<div class="group">
<input type="submit" class="button"</pre>
value="Sign Up">
</div>
<div class="hr"></div>
<div class="foot-lnk">
<label for="tab-1">Already Member?</a>
</div>
</div>
</div>
</div>
</div>
CSS
body{
margin:0;
```

```
color:#6a6f8c;
background:#c8c8c8;
font:600 16px/18px 'Open Sans',sans-serif;
*,:after,:before{box-sizing:border-box}
.clearfix:after,.clearfix:before{content:";display:table}
.clearfix:after{clear:both;display:block}
a{color:inherit;text-decoration:none}
.login-wrap{
width:100%;
margin:auto;
max-width:525px;
min-height:670px;
position:relative;
background:url(https://wallpapercave.com/wp/wp8768982.jpg) norepeat center;
box-shadow:0 12px 15px 0 rgba(250, 248, 248, 0.24),0 17px 50px
0 rgba(230, 224, 224, 0.19);
.login-html{
width:100%;
height:100%;
position:absolute;
padding:90px 70px 50px 70px;
background:rgba(40,57,101,.9);
}
.login-html .sign-in-htm,
.login-html .sign-up-htm{
top:0;
left:0;
```

```
right:0;
bottom:0;
position:absolute;
transform:rotateY(180deg);
backface-visibility:hidden;
transition: all .4s linear;
}
.login-html .sign-in,
.login-html .sign-up,
.login-form .group .check{
display:none;
}
.login-html .tab,
.login-form .group .label,
.login-form .group .button{
text-transform:uppercase;
.login-html .tab{
font-size:22px;
margin-right:15px;
padding-bottom:5px;
margin:0 15px 10px 0;
display:inline-block;
border-bottom:2px solid transparent;
}
.login-html .sign-in:checked + .tab,
.login-html .sign-up:checked + .tab{
color:#fff;
border-color:#1161ee;
```

```
}
.login-form{
min-height:345px;
position:relative;
perspective:1000px;
transform-style:preserve-3d;
}
.login-form .group{
margin-bottom:15px;
.login-form .group .label,
.login-form .group .input,
.login-form .group .button{
width:100%;
color:#fff;
display:block;
.login-form .group .input,
.login-form .group .button{
border:none;
padding:15px 20px;
border-radius:25px;
background:rgba(255,255,255,.1);
}
.login-form .group input[data-type="password"]{
text-emphasis-color:circle;
-webkit-text-security:circle;
.login-form .group .label{
```

```
color:#aaa;
font-size:12px;
.login-form .group .button{
background:#1161ee;
}
.login-form .group label .icon{
width:15px;
height:15px;
border-radius:2px;
position:relative;
display:inline-block;
background:rgba(255,255,255,.1);
.login-form .group label .icon:before,
.login-form .group label .icon:after{
content:";
width:10px;
height:2px;
background:#fff;
position:absolute;
transition: all .2s ease-in-out 0s;
}
.login-form .group label .icon:before{
left:3px;
width:5px;
bottom:6px;
transform:scale(0) rotate(0);
}
```

```
.login-form .group label .icon:after{
top:6px;
right:0;
transform:scale(0) rotate(0);
}
.login-form .group .check:checked + label{
color:#fff;
}
.login-form .group .check:checked + label .icon{
background:#1161ee;
}
.login-form .group .check:checked + label .icon:before{
transform:scale(1) rotate(45deg);
.login-form .group .check:checked + label .icon:after{
transform:scale(1) rotate(-45deg);
}
.login-html .sign-in:checked + .tab + .sign-up + .tab + .login-form .signin-htm{
transform:rotate(0);
}
.login-html .sign-up:checked + .tab + .login-form .sign-up-htm{
transform:rotate(0);
}
.hr{
height:2px;
margin:60px 0 50px 0;
background:rgba(255,255,255,.2);
.foot-lnk{
```

```
text-align:center;
}
```

ADMIN LOGIN AND REGISTRATION HTML,CSS:

```
<div class="login-html">
<link rel="stylesheet"href="index.css">
<input id="tab-1" type="radio" name="tab" class="sign-in"</pre>
checked><label for="tab-1" class="tab">Sign In</label>
<input id="tab-2" type="radio" name="tab" class="sign-up"><label</pre>
for="tab-2" class="tab">Sign Up</label>
<div class="login-form">
<div class="sign-in-htm">
<div class="group">
<label for="admin" class="label">admin page</label>
<input id="admin" type="text" class="input">
</div>
<div class="group">
<label for="pass" class="label">Password</label>
<input id="pass" type="password" class="input"</pre>
data-type="password">
</div>
<div class="group">
<input id="check" type="checkbox" class="check"</pre>
checked>
<label for="check"><span class="icon"></span> Keep me
Signed in</label>
</div>
```

```
<div class="group">
<input type="submit" class="button" value="Sign In">
</div>
<div class="hr"></div>
<div class="foot-lnk">
<a href="#forgot">Forgot Password?</a>
</div>
</div>
<div class="sign-up-htm">
<div class="group">
<label for="admin" class="label">admin</label>
<input id="admin" type="text" class="input">
</div>
<div class="group">
<label for="pass" class="label">Password</label>
<input id="pass" type="password" class="input"</pre>
data-type="password">
</div>
<div class="group">
<label for="pass" class="label">Repeat
Password</label>
<input id="pass" type="password" class="input"</pre>
data-type="password">
</div>
<div class="group">
<label for="pass" class="label">Email Address</label>
<input id="pass" type="text" class="input">
</div>
<div class="group">
```

```
<input type="submit" class="button" value="Sign Up">
</div>
<div class="hr"></div>
<div class="foot-lnk">
<label for="tab-1">Already Member?</a>
</div>
</div>
</div>
</div>
</div>
CSS
body{
margin:0;
color:#6a6f8c;
background:#c8c8c8;
font:600 16px/18px 'Open Sans', sans-serif;
*,:after,:before{box-sizing:border-box}
.clearfix:after,.clearfix:before{content:";display:table}
.clearfix:after{clear:both;display:block}
a{color:inherit;text-decoration:none}
.login-wrap{
width:100%;
margin:auto;
max-width:525px;
min-height:670px;
position:relative;
```

```
background:url(https://png.pngtree.com/png-
vector/20220622/ourmid/pngtreetechnical-support-customer-care-service-png-
image_5231981.png) no-repeat
center;
box-shadow:0 12px 15px 0 rgba(250, 248, 248, 0.24),0 17px 50px 0
rgba(230, 224, 224, 0.19);
}
.login-html{
width:100%;
height:100%;
position:absolute;
padding:90px 70px 50px 70px;
background:rgba(40,57,101,.9);
}
.login-html .sign-in-htm,
.login-html .sign-up-htm{
top:0;
left:0;
right:0;
bottom:0;
position:absolute;
transform:rotateY(180deg);
backface-visibility:hidden;
transition: all .4s linear;
}
.login-html .sign-in,
.login-html .sign-up,
.login-form .group .check{
display:none;
```

```
}
.login-html .tab,
.login-form .group .label,
.login-form .group .button{
text-transform:uppercase;
}
.login-html .tab{
font-size:22px;
margin-right:15px;
padding-bottom:5px;
margin:0 15px 10px 0;
display:inline-block;
border-bottom:2px solid transparent;
. login-html\ . sign-in: checked + .tab,
.login-html .sign-up:checked + .tab{
color:#fff;
border-color:#1161ee;
}
.login-form{
min-height:345px;
position:relative;
perspective:1000px;
transform-style:preserve-3d;
}
.login-form .group{
margin-bottom:15px;
.login-form .group .label,
```

```
.login-form .group .input,
.login-form .group .button{
width:100%;
color:#fff;
display:block;
.login-form .group .input,
.login-form .group .button{
border:none;
padding:15px 20px;
border-radius:25px;
background:rgba(255,255,255,.1);
}
.login-form .group input[data-type="password"]{
text-emphasis-color:circle;
-webkit-text-security:circle;
.login-form .group .label{
color:#aaa;
font-size:12px;
}
.login-form .group .button{
background:#1161ee;
}
.login-form .group label .icon{
width:15px;
height:15px;
border-radius:2px;
position:relative;
```

```
display:inline-block;
background:rgba(255,255,255,.1);
.login-form .group label .icon:before,
.login-form .group label .icon:after{
content:";
width:10px;
height:2px;
background:#fff;
position:absolute;
transition: all .2s ease-in-out 0s;
}
.login-form .group label .icon:before{
left:3px;
width:5px;
bottom:6px;
transform:scale(0) rotate(0);
}
.login-form .group label .icon:after{
top:6px;
right:0;
transform:scale(0) rotate(0);
}
.login-form .group .check:checked + label{
color:#fff;
}
.login-form .group .check:checked + label .icon{
background:#1161ee;
}
```

```
.login-form .group .check:checked + label .icon:before{
transform:scale(1) rotate(45deg);
. login-form \ . group \ . check: checked + label \ . icon: after \{
transform:scale(1) rotate(-45deg);
}
.login-html .sign-in:checked + .tab + .sign-up + .tab + .login-form
.sign-in-htm{
transform:rotate(0);
}
.login-html .sign-up:checked + .tab + .login-form .sign-up-htm{
transform:rotate(0);
}
.hr{
height:2px;
margin:60px 0 50px 0;
background:rgba(255,255,255,.2);
}
. foot\text{-}lnk\{
text-align:center;
```

AGENT LOGIN PAGE

HTML

```
<div class="login-wrap">
```

```
<div class="login-html">
<link rel="stylesheet"href="index1.css">
<input id="tab-1" type="radio" name="tab" class="sign-in"
checked><label for="tab-1" class="tab">Sign In</label>
<input id="tab-2" type="radio" name="tab" class="sign-up"><label</pre>
for="tab-2" class="tab">Sign Up</label>
<div class="login-form">
<div class="sign-in-htm">
<div class="group">
<label for="admin" class="label">agent name</label>
<input id="admin" type="text" class="input">
</div>
<div class="group">
<label for="pass" class="label">Password</label>
<input id="pass" type="password" class="input"</pre>
data-type="password">
</div>
<div class="group">
<input id="check" type="checkbox" class="check"</pre>
checked>
<label for="check"><span class="icon"></span> Keep me
Signed in</label>
</div>
<div class="group">
<input type="submit" class="button" value="Sign In">
</div>
<div class="hr"></div>
<div class="foot-lnk">
<a href="#forgot">Forgot Password?</a>
```

```
</div>
</div>
<div class="sign-up-htm">
<div class="group">
<label for="agent" class="label">agent name</label>
<input id="agent" type="text" class="input">
</div>
<div class="group">
<label for="pass" class="label">Password</label>
<input id="pass" type="password" class="input"</pre>
data-type="password">
</div>
<div class="group">
<label for="pass" class="label">Repeat
Password</label>
<input id="pass" type="password" class="input"</pre>
data-type="password">
</div>
<div class="group">
<label for="pass" class="label">Email Address</label>
<input id="pass" type="text" class="input">
</div>
<div class="group">
<input type="submit" class="button" value="Sign Up">
</div>
<div class="hr"></div>
<div class="foot-lnk">
<label for="tab-1">Already Member?</a>
</div>
```

```
</div>
</div>
</div>
</div>
CSS
body{
margin:0;
color:#6a6f8c;
background:#c8c8c8;
font:600 16px/18px 'Open Sans',sans-serif;
}
*,:after,:before{box-sizing:border-box}
.clearfix:after,.clearfix:before{content:";display:table}
.clearfix:after{clear:both;display:block}
a{color:inherit;text-decoration:none}
.login-wrap{
width:100%;
margin:auto;
max-width:525px;
min-height:670px;
position:relative;
background:url(https://png.pngtree.com/png-
vector/20220622/ourmid/pngtreetechnical-support-customer-care-service-png-
image_5231981.png) no-repeat
center;
box-shadow:0 12px 15px 0 rgba(250, 248, 248, 0.24),0 17px 50px 0
rgba(230, 224, 224, 0.19);
}
.login-html{
```

```
width:100%;
height:100%;
position:absolute;
padding:90px 70px 50px 70px;
background:rgba(40,57,101,.9);
}
.login-html .sign-in-htm,
.login-html .sign-up-htm{
top:0;
left:0;
right:0;
bottom:0;
position:absolute;
transform:rotateY(180deg);
backface-visibility:hidden;
transition: all .4s linear;
.login-html .sign-in,
.login-html .sign-up,
.login-form .group .check{
display:none;
}
.login-html .tab,
.login-form .group .label,
.login-form .group .button{
text-transform:uppercase;
.login-html .tab{
font-size:22px;
```

```
margin-right:15px;
padding-bottom:5px;
margin:0 15px 10px 0;
display:inline-block;
border-bottom:2px solid transparent;
}
.login-html .sign-in:checked + .tab,
.login-html .sign-up:checked + .tab{
color:#fff;
border-color:#1161ee;
}
. login-form \{\\
min-height:345px;
position:relative;
perspective:1000px;
transform-style:preserve-3d;
.login-form .group{
margin-bottom:15px;
}
.login-form .group .label,
.login-form .group .input,
.login-form .group .button{
width:100%;
color:#fff;
display:block;
.login-form .group .input,
.login-form .group .button{
```

```
border:none;
padding:15px 20px;
border-radius:25px;
background:rgba(255,255,255,.1);
.login-form .group input[data-type="password"]{
text-emphasis-color:circle;
-webkit-text-security:circle;
}
.login-form .group .label{
color:#aaa;
font-size:12px;
.login-form .group .button{
background:#1161ee;
.login-form .group label .icon{
width:15px;
height:15px;
border-radius:2px;
position:relative;
display:inline-block;
background:rgba(255,255,255,.1);
}
.login-form .group label .icon:before,
.login-form .group label .icon:after{
content:";
width:10px;
height:2px;
```

```
background:#fff;
position:absolute;
transition: all .2s ease-in-out 0s;
.login-form .group label .icon:before{
left:3px;
width:5px;
bottom:6px;
transform:scale(0) rotate(0);
}
.login-form .group label .icon:after{
top:6px;
right:0;
transform:scale(0) rotate(0);
.login-form .group .check:checked + label{
color:#fff;
.login-form .group .check:checked + label .icon{
background:#1161ee;
}
.login-form .group .check:checked + label .icon:before{
transform:scale(1) rotate(45deg);
}
.login-form .group .check:checked + label .icon:after{
transform:scale(1) rotate(-45deg);
.login-html .sign-in:checked + .tab + .sign-up + .tab + .login-form
.sign-in-htm{
```

```
transform:rotate(0);
}
.login-html .sign-up:checked + .tab + .login-form .sign-up-htm{
transform:rotate(0);
}
.hr{
height:2px;
margin:60px 0 50px 0;
background:rgba(255,255,255,.2);
}
.foot-lnk{
text-align:center;
}
CUSTOMER COMPLAINT RAISING
      HTML
      <form id="fs-frm" name="customer complaints page" accept-
charset="utf-8"
      action="https://formspree.io/f/{form_id}" method="post">
      <fieldset id="fs-frm-inputs">
      <label for="full-name">Full Name</label>
      <input type="text" name="name" id="full-name" required="">
      <label for="email-address">Email Address</label>
      <input type="email" name="_replyto" id="email-address" required="">
      <label for="contact">contact number (Optional)</label>
      <input type="contact" name="contact" id="contact">
      <label for="complaint">Complaint</label>
      <textarea rows="6" name="complaint" id="complaint"
      required=""></textarea>
      <input type="hidden" name="_subject" id="email-subject"</pre>
```

```
value="Complaint Form Submission">
</fieldset>
<input type="submit" value="File Complaint">
</form><style>/* reset */
#fs-frm input,
#fs-frm select,
#fs-frm textarea,
#fs-frm fieldset,
#fs-frm optgroup,
#fs-frm label,
#fs-frm #card-element:disabled {
font-family: inherit;
font-size: 100%;
color: inherit;
border: none;
border-radius: 0;
display: block;
width: 100%;
padding: 0;
margin: 0;
#fs-frm label,
#fs-frm legend,
#fs-frm ::placeholder {
font-size: .825rem;
margin-bottom: .5rem;
padding-top: .2rem;
display: flex;
align-items: baseline;
```

```
}
/* border, padding, margin, width */
#fs-frm input,
#fs-frm select,
#fs-frm textarea,
#fs-frm #card-element {
border: 1px solid rgba(0,0,0,0.2);
background-color: rgba(255, 255, 255, 0.9);
padding: .75em 1rem;
margin-bottom: 1.5rem;
}
#fs-frm input:focus,
#fs-frm select:focus,
#fs-frm textarea:focus {
background-color: white;
outline-style: solid;
outline-width: thin;
outline-color: gray;
outline-offset: -1px;
#fs-frm [type="text"],
#fs-frm [type="email"] {
width: 100%;
#fs-frm [type="button"],
#fs-frm [type="submit"],
#fs-frm [type="reset"] {
width: auto;
cursor: pointer;
```

```
-webkit-appearance: button;
-moz-appearance: button;
appearance: button;
#fs-frm [type="button"]:focus,
#fs-frm [type="submit"]:focus,
#fs-frm [type="reset"]:focus {
outline: none;
#fs-frm [type="submit"],
#fs-frm [type="reset"] {
margin-bottom: 0;
#fs-frm select {
text-transform: none;
#fs-frm [type="checkbox"] {
-webkit-appearance: checkbox;
-moz-appearance: checkbox;
appearance: checkbox;
display: inline-block;
width: auto;
margin: 0.5em 00!important;
#fs-frm [type="radio"] {
-webkit-appearance: radio;
-moz-appearance: radio;
appearance: radio;
```

```
/* address, locale */
#fs-frm fieldset.locale input[name="city"],
#fs-frm fieldset.locale select[name="state"],
#fs-frm fieldset.locale input[name="postal-code"] {
display: inline;
}
#fs-frm fieldset.locale input[name="city"] {
width: 52%;
}
#fs-frm fieldset.locale select[name="state"],
#fs-frm fieldset.locale input[name="postal-code"] {
width: 20%;
}
#fs-frm fieldset.locale input[name="city"],
#fs-frm fieldset.locale select[name="state"] {
margin-right: 3%;
}
</style>
```

7.2 FEATURE 2

ADMIN VIEW FOR CUSTOMER COMPLAINTS HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Bootstrap Example</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width,
```

```
initial-scale=1">
k rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css"
/bootstrap.min.css">
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jque
ry.min.js"></script>
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/b
ootstrap.min.js"></script>
</head>
<body>
<div class="container">
<h2>Customer Complaints</h2>
The .table class adds basic styling (light padding and only
horizontal dividers) to a table:
<thead>
Complaint ID
Customer Name
Complaint Description
Date Of Complaint
Action
</thead>
1
```

```
Abc
Lorem Ipsum is simply dummy text of the printing
and typesetting industry. Lorem Ipsum has been the
industry's standard dummy text ever since the 1500s
1-1-2019
<button type="button" class="btn btninfo">View</button>
2
Def
Lorem Ipsum is simply dummy text of the printing
and typesetting industry. Lorem Ipsum has been the
industry's standard dummy text ever since the 1500s
1-1-2019
<button type="button" class="btn btninfo">View</button>
3
Ghi
Lorem Ipsum is simply dummy text of the printing
and typesetting industry. Lorem Ipsum has been the
industry's standard dummy text ever since the 1500s
1-1-2019
<button type="button" class="btn btninfo">View</button>
</div>
</body>
```

ADMIN ASSIGN AGENT HTML

```
<!DOCTYPE html>
<html>
<head>
<style>
.complaint-solving-system {
width: 100%;
border: 1px solid #ccc;
}
.complaint-solving-system th {
text-align: left;
padding: 8px;
.complaint-solving-system td {
text-align: left;
padding: 8px;
.complaint-solving-system tr:nth-child(even){
background-color: #f2f2f2
```

```
}
.complaint-solving-system button {
background-color: #4CAF50;
color: white;
padding: 14px 20px;
margin: 8px 0;
border: none;
cursor: pointer;
width: 100%;
}
</style>
</head>
<body>
<h2>Complaint Solving System</h2>
Complaint
Customer
Action
Complaint 1
Customer 1
td>="button"
onclick="location.href='assignagent.html"">Assign
Agent</button>
Complaint 2
```

```
Customer 2
Customer 2
Customer 2
Customer 2
Customer 2
Assign Agent.html"">Assign Agent
Assign Agent
Customer 3
Customer 3</td
```

8.TESTING

8.1 TEST CASES

Test Case ID	Future Type	Compone nt	Test Scenario	Steps To Excute
LoginPage_TC_ OO1	Functio nal	Home Page	Verify use r is able to see the Login/Sign up popup when user clicked on My account button	 Enter URL and click go Scroll down Verify login/Singup popup displayed or no
LoginPage_TC_ OO2	UI	Home Page	Verify the UI elements	1.Enter URL and click go

			in Login/Sign up popup	2.Click on Sigup button for User 3.Verify login/Singup popup with below UI elements: a.id text box b.password text box c. Login button d.Newcustomer? Create account linke.Last password? Recovery password link
LoginPage_TC_ OO3	Functioa nl	Home Page	Verify user is able to log into application with Valid credentials	1.Enter URL(https://shopenzer. com/) and click go 2.Click on My Account dropdown button 3.Enter Valid username/email in Email text box 4.Enter valid password in password text box 5.Click on login button
LoginPage_TC_ OO	Functio nal	Login Page	Verify user is able to log into application with InValid credentials	1.Enter URL(https://shopenzer. com/) and click go 2.Click on My Account dropdown button 3.Enter InValid username/email in Email text box

				4.Enter valid password in password text box5.Click on login button
LoginPage_TC_ OO5	Functio nal	Login Page	Verify user is able to log into application with InValid credentials	1.Enter URL(https://shopenzer. com/) and click go 2.Click on My Account dropdown button 3.Enter InValid username/email in Email text box 4.Enter Invalid password in password text box 5.Click on login button

Expected Result	Actual Result	Status	Commnets	TC for Automation	Excuted By
				(Y/N)	
Login/Signup	Working	Pass	Successfull	Y	SNEHA
popup should display	as expected				POOJA
Application	Working	Pass	Successfull	Y	CIBIRAM
should show below UI	as expected				RUTHRAN
elements:	1				
a.email text box					
b.password text box					
c.Login					
button with orange					
colour					

d.New customer? Create account link e.Last password? Recovery password link					
User should navigate to user account homepage	Working as expected	Pass	Successfull	Y	CIBIRAM
Application should show 'Incorrect email or password ' validation message.	Working as expected	Pass	Successfull	Y	RUTHRAN
Application should show 'Incorrect email or password ' validation message.	Working as expected	Pass	Successfull	Y	SNEHA
Application should show ' email	Working as expected	Pass	Successfull	Y	POOJA

8.2 USER ACCEPTANCE

1. Purpose of Documet

The purpose of this document is to briefly explain the test coverage and open issues of the [Customer Care Registry] project at the time of the release to User Acceptance Testing (UAT).

2. Defect Analysis

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

Resolution	severity1	Severity2	Severity3	Severity4	Subtotal
ByDesign	10	4	5	5	24
Duplicate	2	0	2	0	4
External	5	3	2	1	11
Fixed	15	5	5	10	35
Not Reproduced	0	0	0	0	0
Skipped	0	0	1	1	2
Won't Fix	0	5	2	1	8
Totals	32	17	17	18	84

3.TEST CASE ANALYSIS

SECTION	TOTAL CASES	NOT TESTED	FAIL	PASS
Print Engine	10	0	0	10
Client Application	40	0	0	40
Security	5	0	0	2
Outsource Shipping	3	0	0	3
Exception Reporting	10	0	0	10
Final Report Output	4	0	0	4
Version Control	4	0	0	4

9.RESULTS

9.1 PERFORMANCE METRICS

PERFORMANCE TESTING: NFT-Risk Assessment

S.N0	Project Name	Scope /Feature	Functional Changes	Hardware Changes	Software Changes	Load/Volume Changes	Risk Score
1.	CCR Login Page	New	Low	No Changes	Moderate	NO Changes	Orange
2.	CCR Agent Page	New	High	No Changes	No	Low	Green
3.	CCR Admin Page	New	Moderate	No Changes	No	Low	Green

NFT- Detailed Text Plan

S.NO	Project Overview	NFT-Test approach
1.	CCR Login Page	Using python and flask
2.	CCR Agent Page	Using python and flask
3.	CCR Admin Page	Using Python,Flask

End Of Test Report

S.N O	Project Overvie w	NFT Test approa ch	NFR -Met	Test Outcome	Go/Go -No decisio n	Identified defects (Detected/close/ope n)
1.	CCR Login Page	Using Python and Flask	No	Expectatio n met	No	Identified/closed
2.	CCR Agent Page	Using Python and Flask	Yes	Expectatio n partially met	Go-No	Identified/rectified
3.	CCR Admin Page	Using Python and Flask	No	Expectatio n Partially met	No	Identified/rectified

10.ADVANTAGE & DISADVANTAGES

ADVANTAGES:

- ➤ Loyal customers have many benefits for business. 91% of customers say a positive customer service experience makes them more likely to make a further purchase.
- ➤ This long-term customer relationship established through customer service can help business become more profitable.
- ➤ Providing good customer service can create satisfied customers who are then more likely to recommend the business to others.

➤ Good customer service can help business turn leads into sales 78% of customers say they have backed out of a purchase due to a poor customer experience.

DIS ADVANTAGES:

- ➤ the extra services offered, such as refreshments.

 higher wage costs from the extra time staff take to provide post-sales service.
 - ➤ Experience burnout and stress. Working as a customer service representative requires you to maintain a friendly demeanor at all times, regardless of how customers act or how you personally feel.
 - ➤ Handle frequent changes. Hold many responsibilities. Work an irregular schedule.

11. CONCLUSION:

Companies today are modernizing customer care, using advanced AI to ensure a positive customer experience starting from the first interaction and throughout the buyer's journey. To properly manage customer care, companies must understand how they are succeeding and what needs improvement. This requires establishing key performance indicators (KPIs) for customer service and creating a system of gathering metrics across channels. In conclusion, customer care, involves the use of basic ethics and any company who wants to have success and grow, needs to remember, that in order to do so, it must begin with establishing a code of ethics in regards to how each employee is to handle the dealing with customers. Customers are at the heart of the company and its growth or decline. Customer care involves, the treatment, care, loyalty, trust the employee should extend to the consumer, as well in life. This concept can be applied to so much more than just customer care. People need to treat others with respect and kindness; people should try to take others into consideration when making any decision. If more people were to practice this policy, chances are the world would be a better, more understanding place for all to exist. Thereby, the customer care registry would be far helpful and approachable. It offers easy tracking, recording and notification than any other means.

12.FUTURE SCOPE

In the next 3-5 years, we expect to see these future customer care registry trends:

- ➤ The shift from a primarily 'cost centre' to primarily 'growth centre' worldview.
- ➤ The job desk for a customer care registry director will focus more on leadership, innovation, and ability to drive company-wide improvement
- ➤ Customer service will shift to become a strategic partner of marketing, sales, and product development. CS will help with direction, project prioritisation, and impact.
- A need for customer service leaders to take a highly strategic seat at the table. They'll need to argue for investment in talent, technology, and innovation
- ➤ A shift in performance metrics. Forget of resolved tickets. In the future, we'll measure performance based on of customers saved from the precipice of churn
- ➤ A career in customer care registry will not be a last resort. Top graduates will prioritise getting an education in strategic customer interaction.
- ➤ Focus on ticket deflection will reduce because brands will view each customer interaction as an opportunity to learn, build a relationship, and grow profits. They deserve a well-trained, human touch.
- ➤ Modern and developing technology enables this future to exist. With new technology, administrative tasks will tend toward zero.

➤ The sole purpose of the customer service is to meet the expectations of the customers so that they are satisfied with the outcome. These services are also available to understand the queries of the customers and ensure that they enjoy a cost-effective experience after purchasing any product from the respective company.

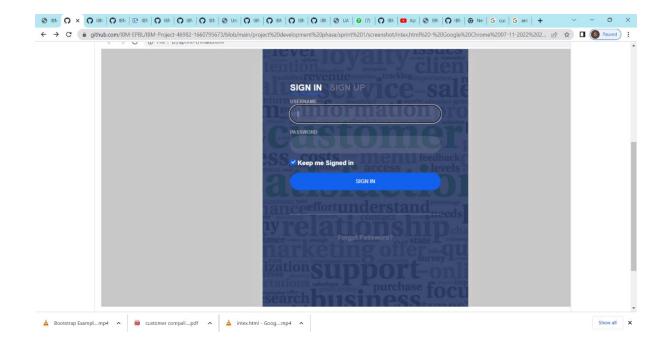
13. APPENDIX SOURCE CODE

```
<div class="login-wrap">
<div class="login-html">
<link rel="stylesheet"href="intex.css">
<input id="tab-1" type="radio" name="tab" class="sign-in"</pre>
checked><label for="tab-1" class="tab">Sign In</label>
<input id="tab-2" type="radio" name="tab" class="signup"><label for="tab-2"</pre>
class="tab">Sign Up</label>
<div class="login-form">
<div class="sign-in-htm">
<div class="group">
<label for="user"
class="label">Username</label>
<input id="user" type="text" class="input">
</div>
<div class="group">
<label for="pass"</pre>
class="label">Password</label>
<input id="pass" type="password"</pre>
class="input" data-type="password">
</div>
<div class="group">
<input id="check" type="checkbox"</pre>
class="check" checked>
```

```
<label for="check"><span</pre>
class="icon"></span> Keep me Signed in</label>
</div>
<div class="group">
<input type="submit" class="button"</pre>
value="Sign In">
</div>
<div class="hr"></div>
<div class="foot-lnk">
<a href="#forgot">Forgot Password?</a>
</div>
</div>
<div class="sign-up-htm">
<div class="group">
<label for="user"</pre>
class="label">Username</label>
<input id="user" type="text" class="input">
</div>
<div class="group">
<label for="pass"</pre>
class="label">Password</label>
<input id="pass" type="password"</pre>
class="input" data-type="password">
</div>
<div class="group">
<label for="pass" class="label">Repeat
Password</label>
<input id="pass" type="password"</pre>
class="input" data-type="password">
```

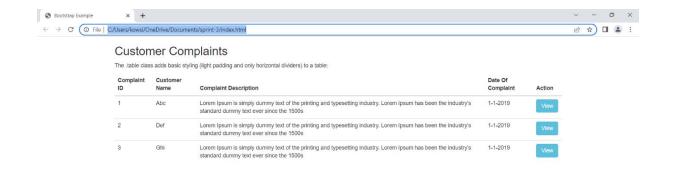
```
</div>
<div class="group">
<label for="pass" class="label">Email
Address</label>
<input id="pass" type="text" class="input">
</div>
<div class="group">
<input type="submit" class="button"</pre>
value="Sign Up">
</div>
<div class="hr"></div>
<div class="foot-lnk">
<label for="tab-1">Already Member?</a>
</div>
</div>
</div>
</div>
</div>
```

SCREESHOT: CUSTOMER LOGIN AND REGISTRATION PAGE:





ADMIN VIE FOR CUSTOMER COMPLAINTS:



ADMIN ASSIGN AGENT:



GITHUB LINK:

https://github.com/IBM-EPBL/IBM-Project-46982-1660795673

PROJECT DEMO

LINK:https://drive.google.com/file/d/1MtRigkzUU0SBpEsjMFUq4rwOTLj MI-fn/view?usp=sharing