A PROJECT REPORT

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CUSTOMER CARE REGISTRY

Team ID	PNT2022TMID32111					
Project Name	Project – Customer	Care Registry				
Team	Surya SK	731619205052				
Members	Dheyaneshwaran S	731619205012				
	Rajesh Kanna K	731619205039				
	Vignesh S	731619205058				

1. INTRODUCTION

1.1 Project overview

The Customer Service Desk is a web based project. Customer Service also known as Client Service is the provision of service to customers' Its significance varies by product, industry and domain. In many cases customer services is more important if the information relates to a service as opposed to a Customer. Customer Service may be provided by a Service Representatives Customer Service is normally an integral part of a company's customer value proposition

1.2 Purpose

An online comprehensive Customer Care Solution is to manage customer interaction and complaints with the Service Providers over phone or through and e-mail. The system should have capability to integrate with any Service Provider from any domain or industry like Banking. Telecom Insurance. etc. Customer Service also known as Client Service is the provision of service to customers Its significance varies by product industry and domain. In many cases customer services is more important if the information relates to a service as opposed to as Customer. Customer Service may be provided by a Service Representatives Customer Service is normally an integral part of a company's customer value proposition

2. <u>LITERATURE SURVEY</u>

2.1 Existing problem

The existing system is a semi-automated at where the information is stored to the form of excel sheets in disk drives. The information sharing to the Volunteers, Group members, etc. is through mailing feature only. The information storage and maintenance is more critical in this system. Tracking the member's activities and progress of the work is a tedious job here. This system cannot provide the information sharing by 24x7 days.

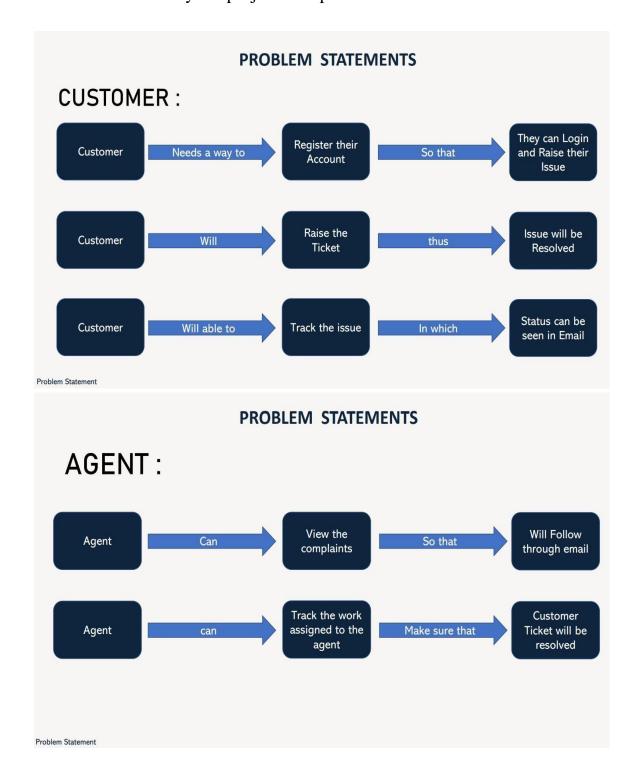
2.2 Reference

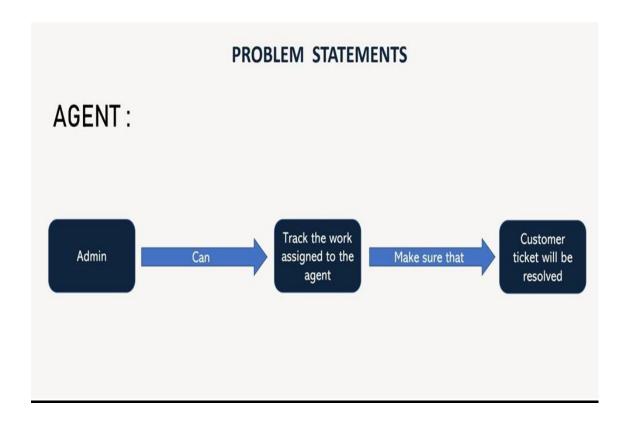
Help Desk Live Chat box Support Problem

2.3 Problem Statement Definition

A problem statement is a concise description of the problem or issues a project seeks to address. The problem statement identifies the current state, the desired future state and any gaps between the two. A problem statement is an important communication tool that can help

ensure everyone working on a project knows what the problem they need to address is and why the project is important.

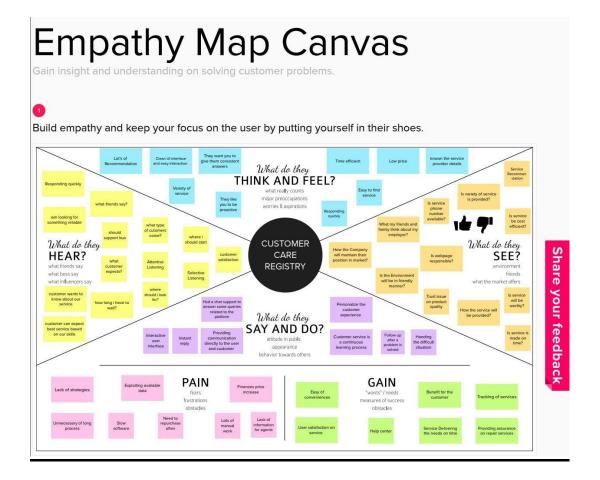




3. IDEATION & POPOSED SOLUTION

3.1 Empathy Map Canvas

An empathy map is a collaborative tool teams can use to gain a deeper insight into their customers. Much like a user persona, an empathy map can represent a group of users, such as a customer segment. The empathy map was originally created by Dave Gray and has gained much popularity within the agilecommunity.

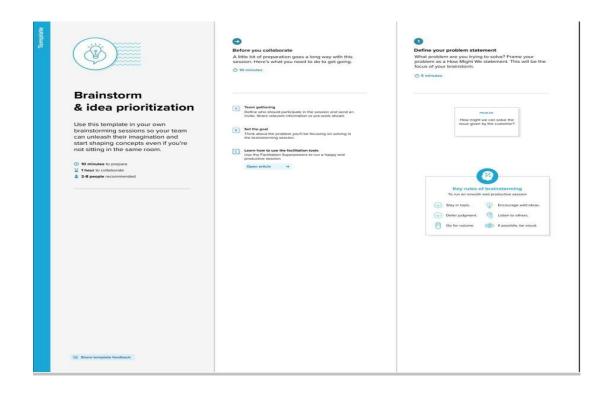


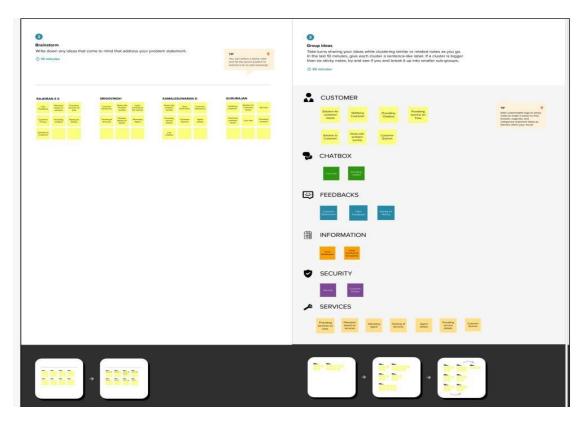
3.2 Ideation & Brainstorming

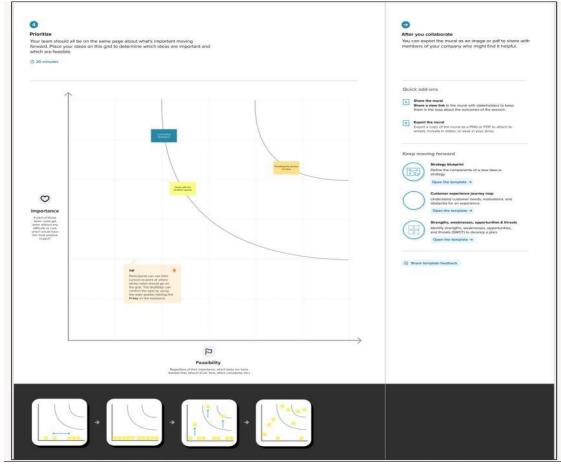
Ideation and the practice of brainstorming, a particular method for coming up with fresh ideas, are frequently closely related. The main distinction between ideation and brainstorming is that whereas brainstorming is nearly often done in groups, ideation is typically seen as being more of a solitary endeavor. A group of people are frequently gathered for a brainstorming session to generate either fresh, general ideas or solutions to specific problems or circumstances. On instance, a large firm that has discovered it is the target of a significant lawsuitmight wish to consult with its top executives to come up with ideas.

In a brainstorming session, participants are encouraged to freely share any ideasthat may come to mind. According to the theory, by coming up with a lot of ideas, the brainstorming group is more likely to find a workable solution to the problemthey are trying to solve.

With the creation of various brainstorming software tools, such Bright idea and Idea wake, the distinction between ideation and brainstorming has gotten a little bit more hazy. These software applications are made to inspire staff members to come up with fresh suggestions for enhancing business operations and, eventually, bottom-line profitability. The applications frequently mix the ideation and brainstorming processes in that they can be used by individual employees, but businesses can replicate brainstorming sessions by having multiple employees usethe software to produce fresh ideas for a particular problem.







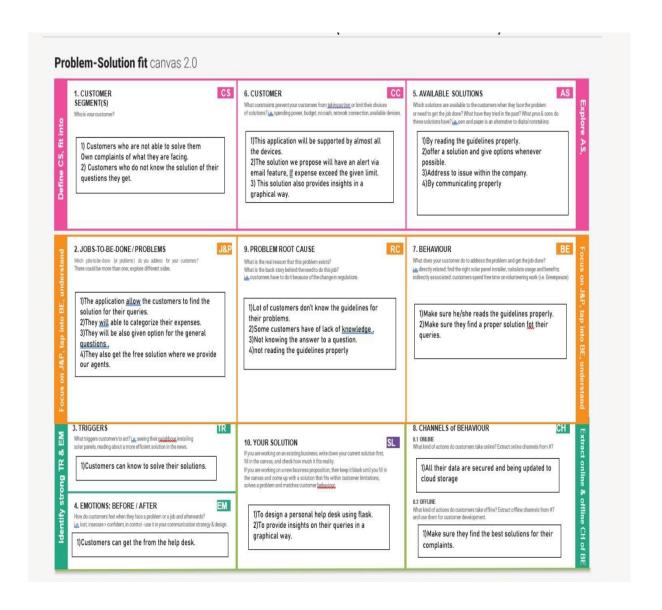
3.3 Proposed Solution

S.NO.	PARAMETER	DESCRIPTION
1	Problem Statement	To solve customer
	(Problem to be	issues using Cloud
	solved)	Application
		Development.
2	Idea / Solution	Assigned Agent
	description	Routing, Automated
		Ticket Closure,
		Status
		Shown to the
		Customer, and
		Backup data in case
		offailures.
3	Social Impact /	Customer
	Customer	Satisfaction,
	Satisfaction	Customer can track
		their status
		and Easy agent
		communication.
4	Business Model	Partners are Third-party
	(Revenue	applications, agents,
	Model)	and customers.
	,	Activities held as
		Customer Service,
		System
		Maintenance.
		Key Resources
		support Engineers,
		Multi-channel.
		Customer
		Customor

		Relationship have
		24/7 Email Support,
		Knowledge-based
		channel.
		Cost Structure
		expresses Cloud
		Platform, Offices
5	Scalability of	The real goal of
	the Solution	scaling customer
		service is providing
		anenvironment that
		will allow your
		customer service
		specialists to be as
		efficient as
		possible. An
		environment where
		they will be able to
		spend less time on
		grunt workand
		more time on
		actually resolving
		critical customer
		issues

3.4 Problem Solution Fit

Problem-Solution Fit - this occurs when you have evidence that customers care about certainjobs, pains, and gains. At this stage you've proved the existence of a problem and have designed avalue proposition that addresses your customers' jobs, pains and gains. Unfortunately, you still do not have clear evidence that your customer really cares enough about your value proposition enough to buy it.



4. <u>REQUIREMENTS ANALYSIS</u>

What is Requirement Analysis: It is the process of determining user expectations for a system under consideration.

These should be quantifiable and detailed.Requirement Analysis: Serves as a foundation for test plans and project plan

Serves as an agreement between developer and customer

Process to make stated and unstated requirements clear

Process to validate requirement for completeness, ambiguity and feasibility.

4.1 Functional Requirements

Functional requirements specify what a system should be able to do through computations, technical details, data manipulation and processing, and other specialized functions. Use cases, which are used to represent behavioral requirements, explain all the instances in which the system makes use of the functional requirements. Non-functional requirements, commonly referred to as "quality requirements," which place restrictions on the design or execution, support functional requirements (such as performance requirements, security, orreliability). Non-functional requirements often take the form "system shall be," while functional needs are typically articulated in the form "system must do. "While non-functional needs are defined in the system architecture, the plan for accomplishing functional requirements is detailed in the system design. Functional requirements, as used in requirements engineering, outline specified outcomes of a system.

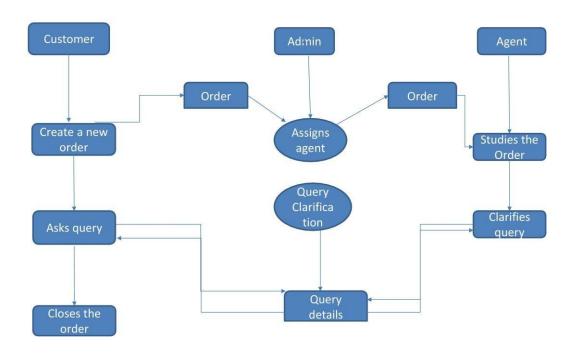
4.2 Non – Functional Requirements

In general, non-functional requirements outline what a system is supposed to be rather than what it should be able to perform. Functional requirements are typically expressed as "system shall do," an individual action or component of the system, maybe explicitly in terms of a mathematical function, or as a black box description of an input, output, process, and control functional model, also known as an IPO Model. Non-functional requirements, on the other hand, have the form of "system shall be," which refers to a general characteristic of the system as a whole or of a particular aspect rather than a specific function. The overall characteristics of the system frequently determine whether a development project is a success or a failure. Non-functional requirements are frequently referred to as a product's "qualitytraits" in error.

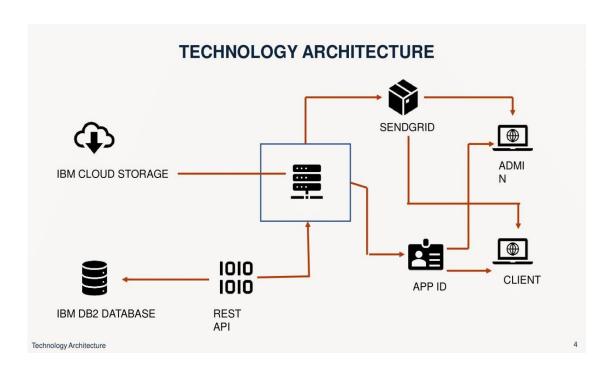
5. PROJECT DESIGN

5.1 Data Flow Diagrams

Data flow diagram for Customer care Registry



5.2 Solution & Technical Architecture



TECHNOLOGY ARCHITECTURE

S.NO	COMPONENT	DESCRIPTION	TECHNOLOGY
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / 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.	Database	Data Type, Configurations etc.	MySQL etc
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration:	Local, Cloud Foundry, Kubernetes, etc.

Technology Architecture

APPLICATION CHARACTERISTICS

S.N o	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	python flask
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g., encryption, intrusion detection software, antivirus, firewalls
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Microservices)	supports higher workloads without any fundamental changes to it.
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	High availability enables your IT infrastructure to continue functioning even when some of its components fail.
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Performance technology, therefore, is a field of practice that uses various tools, processes, and ideas in a scientific, systematic manner to improve the desired outcomes of individuals and organizations.

Technology Architecture

5.3 User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a customer, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
	login	USN-2	As a customer, I can login to the application by entering correct email and password.	I can access my account/dashboard.	High	Sprint-1
	Dashboard	USN-3	As a customer, I can see all the orders raised by me.	I get all the info needed in my dashboard.	Low	Sprint-2
	Order creation	USN-4	As a customer, I can place my order with the detailed description of my query	I can ask my query	Medium	Sprint-2
	Address Column	USN-5	As a customer, I can have conversations with the assigned agent and get my queries clarified	My queries are clarified.	High	Sprint-3
	Forgot password	USN-6	As a customer, I can reset my password by this option incase I forgot my old password.	I get access to my account again	Medium	Sprint-4
	Order details	USN-7	As a Customer ,I can see the current stats of order.	I get abetter 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 / dashboard.	High	Sprint-3
	Dashboard	USN-2	As an agent, I can see the order details assigned to me by admin.	I can see the tickets to which I could answer.	High	Sprint-3
	Address column	USN-3	As an agent, I get to have conversations with the customer and clear his/er dobuts	I can clarify the issues.	High	Sprint-3
	Forgot password	USN-4	As an agent I can reset my password by this option in case I forgot my old password.	I get access to my account again.	Medium	Sprint-4

Admin (Mobile user)	Login	USN-1	As a admin, I can login to the appliaction by entering Correct email and password	I can access my account/dashboard	High	Sprint-1
	Dashboard	USN-2	As an admin I can see all the orders raised in the entire system and lot more	I can assign agents by seeing those order.	High	Sprint-1
	Agent creation	USN-3	As an admin I can create an agent for clarifying the customers queries	I can create agents.	High	Sprint-2
	Assignment agent	USN-4	As an admin I can assign an agent for each order created by the customer.	Enable agent to clarify the queries.	High	Sprint-1
	Forgot password	USN-5	As an admin I can reset my password by this option in case I forgot my old password.	I get access to my account.	High	Sprint-1

6. PROJECT PLANNING & SCHEDULING

'Project Planning and Scheduling', though separate, are two sides of the same coin inproject management. Fundamentally, 'Project planning' is all about choosing and designing effective policies and methodologies to attain project objectives. While Project scheduling is a procedure of assigning tasks to get them completed by allocating appropriate resources within an estimated budget and time-frame.

The basis of project planning is the entire project. Unlikely, project scheduling focusesonly on the project-related tasks, the project start/end dates and project dependencies. Thus, a 'project plan' is a comprehensive document that contains the project aims, scope, costing, risks, and schedule. And a project schedule includes the estimated dates and sequential project tasks to be executed.

Project Planning

The project planning phase refers to:

Developing a project to make it ready for investment.

Determines the jobs/tasks required to attain project objectives.

6.1 Sprint Planning & Estimation

Sprint	User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Customer (Web User)	Registration	USN-1	As a customer, I can register for the application by entering my email, password, and confirming my password	2	High	Surya Sk, Dheyaneshwaran S, Rajeshkanna K, Vignesh S.
Sprint-1		Login	USN-2	As a customer, I can login to the application by entering correct email and password	1	High	Surya Sk, Dheyaneshwaran S, Rajeshkanna K, Vignesh S
Sprint-1		Dashboard	USN-3	As a customer, I can see all the tickets raised by me and lot more	3	High	Surya Sk, Dheyaneshwaran S, Rajeshkanna K, Vignesh S
Sprint-2		Ticket creation	USN-4	As a customer, I can create a new ticket with the detailed description of my query	2	High	Surya Sk, Dheyaneshwaran S, Rajeshkanna K, Vignesh S
Sprint-3		Address Column	USN-5	As a customer, I can have conversations with the assigned agent and get my queries clarified	3	High	Surya Sk, Dheyaneshwaran S, Rajeshkanna K,

Sprint-4 Forgot password USN-6 in case Sprint-4 Ticket details USN-7 As a customer, I Sprint-3 Agent Login USN-1 As an agent, I can	can reset my password by this option e I forgot my old password	2		<u>Vignesh</u> S
Sprint-4 Forgot password USN-6 in case Sprint-4 Ticket details USN-7 As a customer, I Sprint-3 Agent Login USN-1 As an agent, I can		2		
Sprint-3 Agent Login USN-7 Agent Login USN-1 As an agent, I can			Medium	Surya Sk, Dheyaneshwaran S, Rajeshkanna K, Yignesh S
	I can see the current status of my tickets	2	Medium	Surya Sk, Dheyaneshwaran S, Rajeshkanna K, Vignesh S
	n login to the application by entering ect email and password	2	High	Surya Sk, Dheyaneshwaran S, Rajeshkanna K, Yignesh S
	gent, I can see all the tickets gned to me by the admin	3	High	Surya Sk, Dheyaneshwaran S, Rajeshkanna K, Vignesh S
Sprint-3 1 Address Column 1 USN-3 1	get to have conversations with the er and clear his/her queries	3	High	Surya Sk, Dheyaneshwaran S, Rajeshkanna K, Vignesh S
	n reset my password by this option in I forgot my old password	2	Medium	Surya Sk, Dheyaneshwaran S, Rajeshkanna K, Yignesh S
Sprint-1 (Web user) Login USN-1 correct	ın login to the application by entering	1	High	Surya Sk, Dheyaneshwaran S, Rajeshkanna K,
Sprint-1 Dashboard USN-2 As an adm	ect email and password	3	High	Vignesh S Surya Sk,

Sprint	User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
				raised in the entire system and lot more			Dheyaneshwaran S, Rajeshkanna K, Yignesh S
Sprint-2		Agent creation	USN-3	As an admin, I can create an agent for clarifying the customer's queries	2	High	Surya Sk, Dheyaneshwaran S, Rajeshkanna K, Vignesh S
Sprint-2		Assigning agent	USN-4	As an admin, I can assign an agent for each ticket created by the customer	3	High	Surya Sk, Dheyaneshwaran S, Rajeshkanna K, Vignesh S
Sprint-4		Forgot password	USN-4	As an admin, I can reset my password by this option in case I forgot my old password	2	Medium	Surya Sk, Dheyaneshwaran S, Rajeshkanna K, Yignesh S

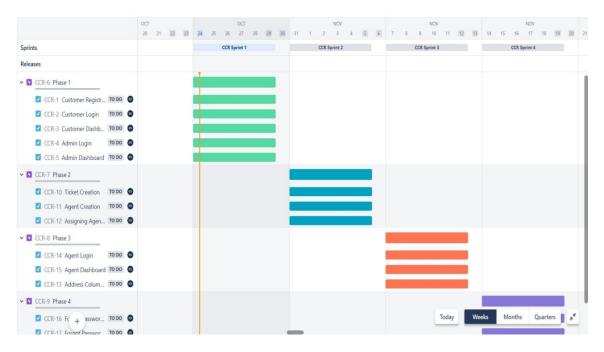
6.2 Sprint Delivery Schedule

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	10	6 Days	24 Oct 2022	29 Oct 2022	10	29 Oct 2022
Sprint-2	7	6 Days	31 Oct 2022	05 Nov 2022	7	05 Nov 2022
Sprint-3	11	4 Days	06 Nov 2022	11 Nov 2022	11	09 Nov 2022
Sprint-4	8	4 Days	10 Nov 2022	15 Nov 2022	8	13 Nov 2022

6.3 Report from JIRA

Jira's value proposition heavily relies on its reporting capabilities. By delivering critical insights in real time, reporting elevates the value of your Jira deployment and empowers your team to take informed decisions that improve output and performance. It is crucial to evaluate each project's status in order to accomplish objectives and control workloads. Jira reports can aid teams in quicklyidentifying and resolving performance, bandwidth, and workflow obstacles, enabling them to stay on top of both short-term and long-term projects.

It's crucial to note that Jira provides a variety of tools and reports to assist you ingetting a clear picture of your team's progress, each with unique advantages, restrictions, and applications. Each team or organization should utilize the reports and resources that



7. CODING & 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 programmer 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 nextgeneration of IT talent and provide them the tools and resources they require to make your business successful. Innovative talent is necessary for innovative technologies.

7.1 Database Schema

A database schema defines how data is organized within a relational database; this is inclusive of logical constraints such as, table names, fields, data types, and the relationships between these entities. Schemas commonly use visual representations to communicate the architecture of the database, becoming the foundation for an organization's data management discipline. This process of database schema design is

also known as data modeling.

These data models serve a variety of roles, such as database users, database administrators, and programmers. For example, it can help database administrators manage normalization processes to avoid data duplication. Alternatively, it can enable analysts to navigate these data structures to conductreporting or other valuable business analyses. These diagrams act as valuable documentation within the database management system (DBMS), ensuring alignment across various stakeholders.

HTML & PYTHON CODE

```
## Definition of the property of the property
```

```
C:\Users\sande
:\Oustomer-Care-Registry\app.pv
□ app.py - D:\...\Customer-Care-Registry X app.py - D:\spyder X
       # home
  19
      @app.route("/")
      def index():
          return render_template("index.html")
      @app.route("/home", methods=['GET', "POST"])
      def home():
           if ('user' not in session.keys()) or (session['user'] == None):
              return redirect(url_for('login'))
              cursor = mysql.connection.cursor()
               cursor.execute("SELECT * FROM User WHERE id = % s",[session['user']])
               userdetails = cursor.fetchone()
              if userdetails[4] == 2:
              return render_template("home.html",user=userdetails)
if userdetails[4] == 5:
                  return render_template("home.html",user=userdetails)
```

```
Customer-Care-Registry\app.py
 app.py - D:\...\Customer-Care-Registry X | app.py - D:\spyder X
                   return render_template("home.html",user=userdetails,tickets=tickets)
 64
      @app.route("/register", methods=["GET", "POST"])
     def register_account():
          msg='
          if request.method == "POST":
              username = request.form['username']
               email = request.form['email']
              password = request.form['password']
              cursor = mysql.connection.cursor()
              cursor.execute('SELECT * FROM User WHERE email = % s', (email, ))
              userdetails = cursor.fetchone()
              print(userdetails)
               if userdetails:
                  msg = 'Account already exists !'
               elif not re.match(r'[^@]+@[^@]+\.[^@]+', email):
               msg = 'Invalid email address!'
elif not re.match(r'[A-Za-z0-9]+', username):
                  msg = 'name must contain only characters and numbers !'
                   cursor.execute("INSERT INTO User(username,email,password,role) VALUES(% s,% s,%
                   mucal connection commit()
```

```
C:\Users\sande
 \Customer-Care-Registry\app.py
□ app.py - D:\...\Customer Care-Registry X app.py - D:\spyder X
        # agent account registration
        @app.route("/agent", methods=["GET", "POST"])
        def agent_register():
             msg=
             if request.method == "POST":
                 username = request.form['username']
                  email = request.form['email']
                 password = request.form['password']
                 cursor = mysql.connection.cursor()
                 cursor.execute('SELECT * FROM User WHERE email = % s', (email, ))
                 userdetails = cursor.fetchone()
                 print(userdetails)
                  if userdetails:
                      msg = 'Account already exists !'
                 elif not re.match(r'[^@]+\@[^@]+\.[^@]+', email):
    msg = 'Invalid email address!'
                 elif not re.match(r'[A-Za-z0-9]+', username):

msg = 'name must contain only characters and numbers !'
                      cursor.execute("INSERT INTO User(username,email,password,role) VALUES(% s,% s,%
                       mysql.connection.commit()
                       msg = 'You have successfully registered!'
                      mysql.connection.commit()
potupe podinoct(up) fon("indox"))
```

```
B B ■
                                                                                       C:\Users\sande
\Customer-Care-Registry\app.py
  app.py - D:\...\Customer-Care-Registry X app.py - D:\spyder X
            ipp.route('/Login',methods=["GET","POST"])
          def login():
               msg=
               if request.method == "POST":
                     email = request.form['email']
                     password = request.form['password']
                     cursor = mysql.connection.cursor()
cursor.execute('SELECT * FROM User WHERE email = % s AND password = % s', (email, pa
                     userdetails = cursor.fetchone()
                     print (userdetails)
                     if userdetails:
                          userdetails [0]
session['Loggedin'] = True
session['user'] = userdetails[0]
session['username'] = userdetails[1]
msg = 'Logged in successfully !'
return redirect(url_for("home"))
                          msg = 'Incorrect username / password l'
return render_template("login.html",msg=msg)
               return render_template('login.html', msg = msg)
         # ticket detail
         @app.route("/ticket/cint:id>",methods=["GET","POST"])
dof ticket dotail/id):
```

```
- E
\Customer-Care-Registry\app.py
app.py - D:\...\Customer-Care-Registry X app.py - D:\spyder X
                    return redirect(url_for("home"))
                    msg = 'Incorrect username / password !'
                    return render_template("Login.html",msg=msg)
            return render_template('login.html', msg = msg)
 142
       # ticket detail
       @app.route("/ticket/<int:id>",methods=["GET","POST"])
       def ticket_detail(id):
            cursor = mysql.connection.cursor()
            cursor.execute("SELECT * FROM Tickets WHERE id = % s",[id])
            ticket = cursor.fetchone()
            cursor.execute("SELECT * FROM User WHERE id = % s",[session['user']])
           user = cursor.fetchone()
cursor.execute("SELECT * FROM User WHERE role = 1")
           all users = cursor.fetchall()
           if user is None:
                return redirect(url_for("Login"))
            if request.method == "POST":
                agent = request.form['agent']
                print(agent,id)
                cursor.execute("SELECT username FROM User WHERE id= % s",(agent,))
                agent_name = cursor.fetchone()
                  rt_ctn/agant nama)
```

```
C:\Users\sande
ustomer-Care-Registry\app.py
app.py - D:\...\Customer Care-Registry X | app.py - D:\spyder X
      # admin register
179
      @app.route("/admin", methods=["GET", "POST"])
      def admin_register():
           if request.method == "POST":
               username = request.form['username']
               email = request.form['email']
               password = request.form['password']
               secret_key = request.form['secret']
if secret_key == "12345":
                    cursor = mysql.connection.cursor()
                    cursor.execute("INSERT INTO User(username,email,password,role) VALUES(% s,% s,%
mysql.connection.commit()
return redirect(url_for("Login"))
                    return render_template("admin_register.html", msg="Invlaid Secret")
           return render_template("admin_register.html")
     # promote agent
      @app.route("/panel", methods=['GET', 'POST'])
      def panel():
           id = session['user']
           if id is None:
```

8. TESTING

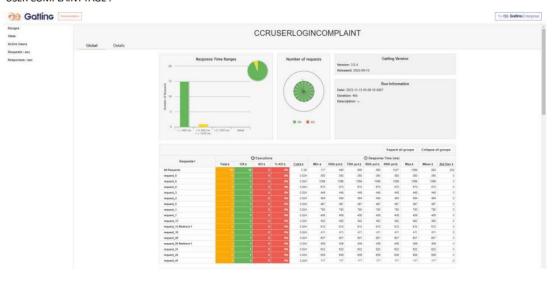
8.1 Test cases



AGENT LOGIN PAGE:



USER COMPLAINT PAGE:



USER ALLOT PAGE:



8.2 User Acceptance Testing

UAT Execution & Report Submission

Purpose of Document

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).

Defect Analysis

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

Resoluti on	Severity 1	Severi ty 2	Sever ity 3	Severity 4	Subtot al
By Design	5	0	0	2	7
External	0	2	0	0	2
Fixed	12	11	35	45	103
Not Reproduce d	0	5	0	0	5
Skipped	0	0	0	0	0
Totals	17	18	35	47	117

Test Case Analysis

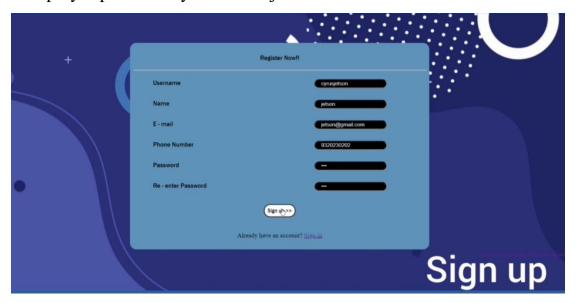
This report shows the number of test <u>cases</u> that have passed, failed, and untested

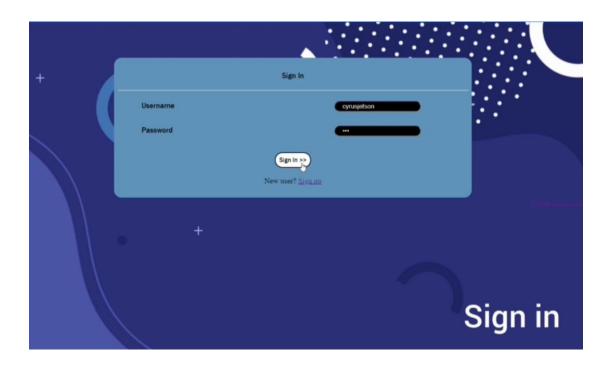
Section	Total Cases	Not Teste d	Fa il	Pas s
Client Application	72	0	0	72
Security	7	0	0	7
Exception Reporting	5	0	0	5
Final Report Output	4	0	0	4

9. RESULT

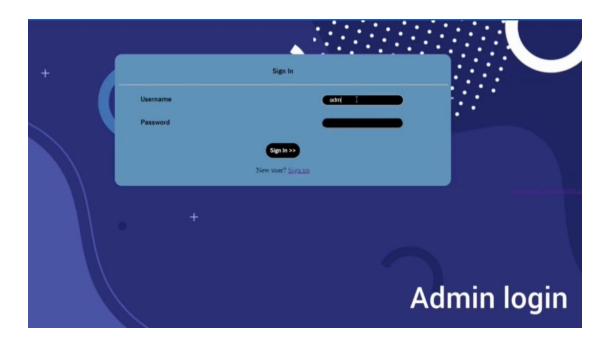
9.1 PERFORMANCE METRIC

Performance metrics are data used to track processes within a business. This is achieved using activities, employee behavior, and productivity as key metrics. These metrics are then used by employers to evaluate performance. This is in relation to an established goal such as employee productivity or sales objective

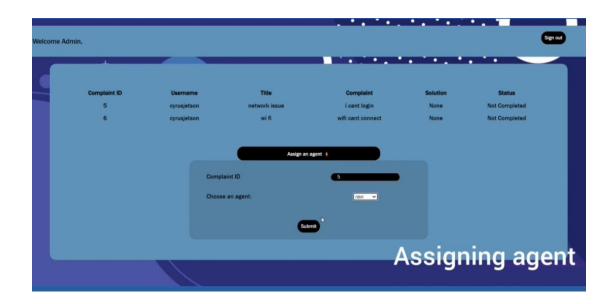


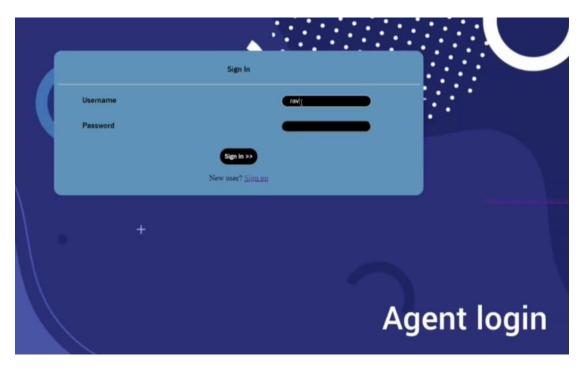




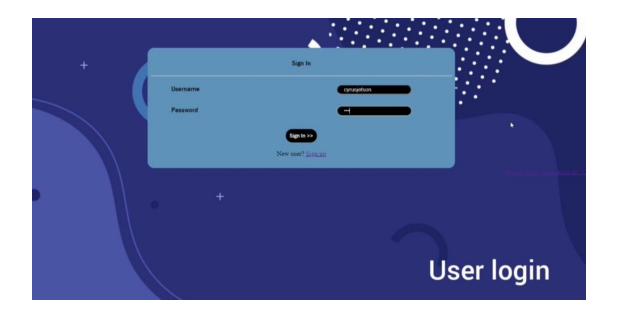












10. ADVANTAGES AND DISADVANTAGES

ADVANTAGES:

Customer loyalty

Loyal customers have many benefits for businesses. 91% of customers say a positive customer service experience makes them more likely to make a further purchase (source: Salesforce Research). Also, investing in new customers is five times more expensive than retaining existing ones (source: Invest). Creating loyal customers through good customer service can therefore provide businesses with lucrative long-term relationships.

Increase profits

These long-term customer relationships established through customer service can help businesses become more profitable. Businesses can grow revenues between 4% and 8% above their market when they prioritise better customer service experiences (source: Bain & Company). Creating a better customer service experience than those offered by competitors can help businesses to standout in their market place, and in turn make more sales.

Customer recommendations

Providing good customer service can create satisfied customers, who are then more likely to recommend the business to others. 94% of customers will recommend a company whose service they rate as "very good" (source: Qualtrics XM Institute). This is useful, as 90% of customers are influenced by positive reviews when buying a product (source: Zendesk). Customers recommending a company through word of mouth or online reviews can improve the credibility of the business.

Disadvantage:

The Consumer Protection Act in India has numerous restrictions and drawbacks are listed in this article Only services for which a particular payment has been made are covered under the consumer protection act. However, it does not protect medical professionals, or hospitals, and covers cases when this act does not apply to free medical care This act does not apply to mandatory services, such as water supply, that are provided by state agencies. Only two clauses related to the supply of hazardous materials are covered by this act. Consumer redress is not given any power by the consumer protection act. The consumer protection act focuses on the supply of ineffective products, but there are no strict regulations for those who produce it.

11. CONCLUSION

It is a web – enabled project

With this project the details about the product will be given to the customers in detail within a short span of time.

Queries regarding the product or the services will also be clarified.It provides more knowledge about the various technologies.

12. APPENDIX:

SOURCE CODE

The source code has been uploaded in GitHub. To refer the final source code click here to view ' $\underline{SOURCE\ CODE}$ '

GITHUB & PROJECT DEMO LINK

The Git-Hub link : Project Link

The Demo link : <u>Demo Link</u>