PROJECTREPORT

TITLE	CUSTOMER CARE REGISTRY
TEAMID	PNT2022TMID48334

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INTRODUCTION

1.1 PROJECTOVERVIEW

Customercareismorethanjustprovidinggreatcustomerservice. It's proactive approacht oprovidi ng information, tools, and services to customers at each point they interact with a brand. This Application has been developed to help the customerinprocessingtheircomplaints. The customers can raise the ticket with a detailed description of the issue. An Agent will be assigned to the Customer tosolve the problem. Whenever the agent is assigned to a customer they will be notified with an emailalert. Customers can view the status of the ticket till the service is provided. The main role andresponsibility 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. Usercan register for an account. After the login, they can create the complaint with a description of the problem they are facing. Eachuserwillbeassignedwithanagent. They can view the status of their complaint.

1.2 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. Goodcustomers ervice creates a positive experience for customers, which can result in repeat business and referrals. Goodcustomers ervice is the life blood 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 dobusiness with you again. Goodcustomers ervice also makes it easy for customers to recommend your company to their friends and family.

LITERATURESURVEY

2.1 EXISTINGPROBLEM

2.1.1 TITLE-

CUSTOMERCAREREGISTRY AUTHOR-

Yusuf IndraWibowo1DESCRIPTION

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 or influences between variables. Article ini review customersatisfaction determination and complaintlevel: 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 variable sto be used in future research. The result of this rise archlibrary 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; 4) Service Quality affects complaint level; and 5) Customer Satisfaction affects complaint level; el.

2.1.2 TITLE-CUSTOMERCAREREGISTRY

AUTHOR-ShruthiSivaprakasamJ. Jayashree R.ShanmugaPriyan

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 agre ementandmonitoringresults. This paper focuses on an alysing the satisfaction factors of customers including all aspects of products and services in the construction projects. In this study factors forcustomer satisfaction in constructionindustry are taken from the past literature review. The literaturereviews are and various related satisfaction summarized factors to customer in construction industrybasedonliteraturereviewsummary.

2.1.3 TITLE-CUSTOMER CARE REGISTRY

investigated about these rvice quality of the metroservice based on the performance leading to customer satisfaction

n. ThesurveywasconductedandanalyzedwithSPSStool. Thissurveyisbased

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

2.1.4 TITLE-CUSTOMERCAREREGISTRY

AUTHOR-RathodPiyush, Dr.RajivBhattandDr. JayeshPitroda(2016)

DESCRIPTION

"Study of Factors Affecting CustomerSatisfaction for Residential Flats in Surat andAhmedabad city in Gujarat Region of India". In this paper, factors affecting thecustomer satisfactionamong the residential flats are analyzed in the region. They find the satisfaction and un satisfaction factors from flat owners. They find out the factor forcustomer service satisfaction and un satisfaction 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 an Drawing Or Living Room, Bathroom, Calculation, dspace of rooms, Area Ventilation, Watersupply, Parking, Recreational Facilities and Interiors of building

2.2 PROBLEM STATEMENT DEFINITION

A Customer had occur a problem when they apply a ticket they need to recoveryasolutionorresult. So the customer will contact a customer careforarise this issue. After the customer complaint, the company could identify that problem and solved this issue. Now the company wants to avoid these kinds of problems and technical issues So the company needs the customer satisfaction. This customer care registry helps to solve the issues and its find customer satisfaction

IDEATION & PROPOSED SOLUTION

3.1 EMPATHY MAPCANVAS

An empathy map is a simple, easy-to-digest visual that captures knowledge about auser's behaviours and attitudes. It is a useful to olt ohelps teams better understand their users.

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



Figure 3.1.1 Empathy Map Canvas

3.2 IDEATION AND BRAINSTORMING

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



Figure 3.2.1 Team Gathering, Collaboration and Select the Problem Statement

Step-2:Brainstorm, Idea Listing and Grouping

Theidealistingandgroupingisusedtoorganizeandanalyselargenumbersof ideas by categorising them. By organising and reorganising ideas, students gain a better appreciation of, and dialogue about, their

ideas. As students create idea clusters, new contexts and connections among the mesemerge.

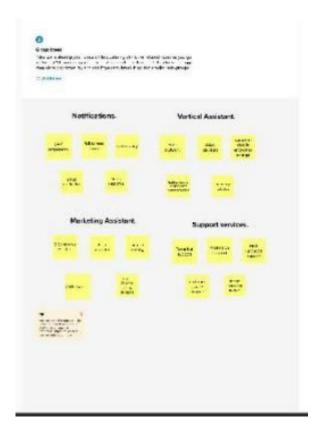


Figure 3.2.2 Brainstorm, Idea Listing and Grouping

Step-3:Idea Prioritization

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

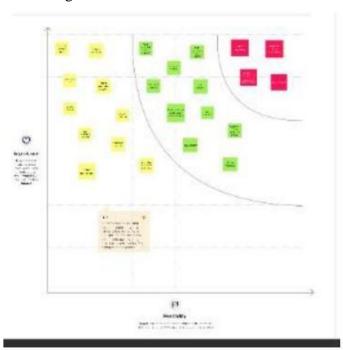


Figure 3.2.1 Idea Prioritization

3.3 PROPOSEDSOLUTION

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	To solve customer issues using cloud application Development.
2.	Idea / Solution description	Assigned Agent routing can be solved by directly routing to the specific agent about the issue using the specific Email.Automated Ticket closure by using daily sync of the daily database.Regular data retrieval in the form of retrieving lost data.
3.	Novelty / Uniqueness	Assigned Agent Routing, Automated Ticket Closure, Status Shown to the customer, and Backup data in case of failures.
4.	Social Impact / Customer Satisfaction	Customer satisfaction, customer can track their status and easy agent communication.
5.	Business Model (Revenue Model)	Key Resources support Engineers, Multi- channel. Customer Relationship have 24/7 Email support, Knowledge-based channel.

Table3.3.1ProposedSolution

3.4 PROBLEMSOLUTIONFIT

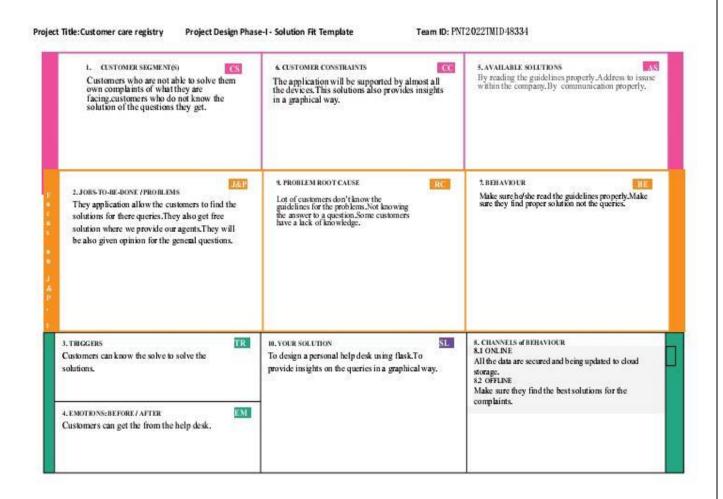


Figure 3.4.1 Problem Solution Fit

REQUIREMENT

ANALYSIS

4.1 FUNCTIONAL REQUIREMENT

Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
User Registration	Registration through Form Registration through G-mail Registration through Google
User Confirmation	Confirmation via Email Confirmation via OTP
User Login	Login via Google Login with Email id and Password
Admin Login	Login via Google Login with Email id and Password
Query Form	Description of the issues Contact information
E-mail	Login alertness
Feedback	Customer feedback
	User Registration User Confirmation User Login Admin Login Query Form E-mail

Table 4.1.1 Functional Requirement

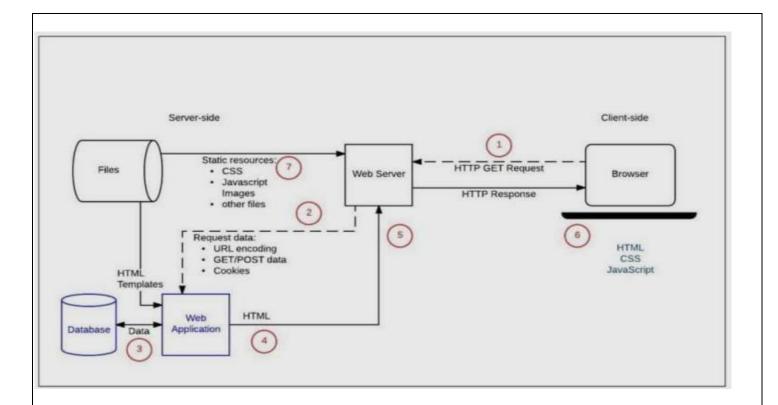
4.2 NON-FUNCTIONAL REQUIREMENT

Non-functional Requirements:

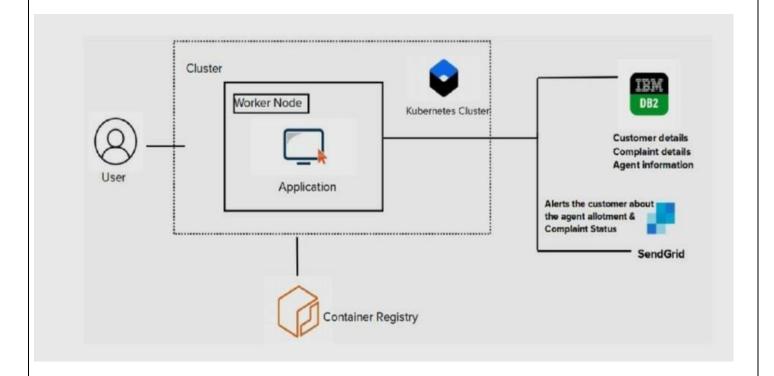
Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	To provide the solution to the problem
NFR-2	Security	Track of login authentication
NFR-3	Reliability	Tracking of decade status through email
NFR-4	Performance	Effective development of web application
NFR-5	Availability	24/7 service
NFR-6	Scalability	Agents scalability as per the number of customers

Table 4.2.1 Non-Functional Requirement



Technology stack:



PROJECT DESIGN

5.1 DATAFLOW DIAGRAMS

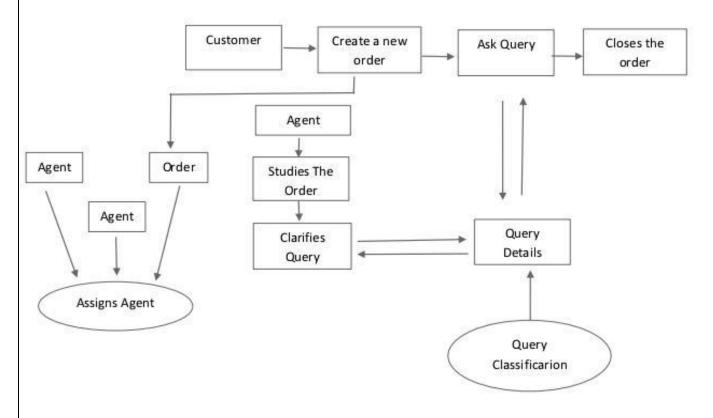


Figure 5.1.1 DataFlow of Customer care registry

5.2 SOLUTION AND TECHNICAL ARCHITECTURE

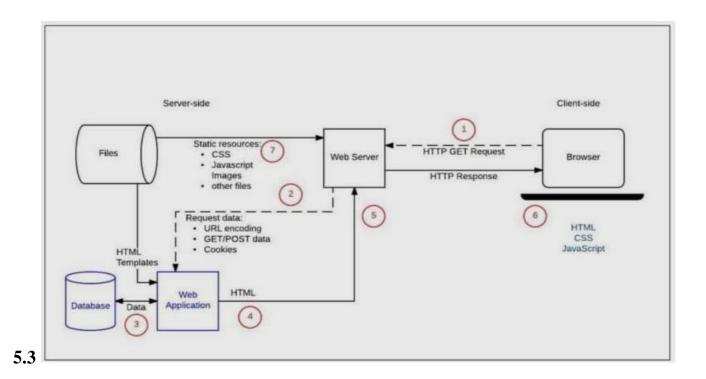


Figure 5.2.1 Solution Architecture

PROJECT PLANNING AND SCHEDULING

6.1 SPRINT PLANNIN G AND ESTIMATION

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	5	High	Dharani.K Arulselvi.K
Sprint-1		USN-2	-2 As a user, I will receive confirmation email once I have registered for the application		High	Suhaina juhi.A Krishnapriya. M
Sprint-2		USN-3	As a user, I can register for the application through Facebook	3	Low	Dharani.K
Sprint-2		USN-4	As a user, I can register for the application through Gmail	5	Medium	Suhaina juhi.A
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	5	High	Krishnapriya. M,Arulselvi.K, Dharani.K
						Suhaina juhi.A
Sprint-2	Search	USN-6	As a user, I can search for the desired companies	7	High	Dharani.K Arulselvi.K
Sprint-3	Apply	USN-7	As a user, I can apply for a company	6	High	Suhaina juhi.A Dharani.KArul selvi.K
Sprint-3	Review	USN-8	As a user, I can review the company	4	Medium	Krishnapriya. M
Sprint-4	Forward	USN-9	As an admin, I must forward the applications to the respective companies	4	High	Suhaina juhi.A
Sprint-4 Send Confirmation USN-10		Confirmation mail is sent from the respected company	4	High	Suhaina juhi,Krishnapri ya.M Arulselvi.K	

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Manage Review	USN-11	As an admin, I must make the reviews appear on the company's profile	1	Low	Dharani.K
Sprint-4	Chatbot	USN-12	As a user, I can interact with Watson Assistant to resolve my queries	1	Low	K.Arulselvi

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint Total Story Duration Sprint Start Date Sprint End Date Story Points Sprint Release Date (A Points On Planned End Points On Pl
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					Date)	
Sprint-1	15	6 Days	24 Oct 2022	29 Oct 2022		
Sprint-2	15	6 Days	31 Oct 2022	05 Nov 2022		
Sprint-3	10	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	10	6 Days	14 Nov 2022	19 Nov 2022		

Velocity:

Sprint-1 and Sprint-2

Sprint-3 and Sprint-4

Table6.1.1Sprint Planning&Estimation

6.2 SPRINT DELIVERY SCHEDULE

Sprint	Total storypoint s	Duration	Sprint startdate	Sprint enddate	Story points completed	Sprintrelea sedate
Sprint-1	10	6Days	24Oct2022	29Oct2022	10	29Oct2022
Sprint-2	7	6Days	31Oct2022	05 Nov2022	7	05 Nov2022
Sprint-3	11	6Days	07 Nov2022	12Nov2022	11	12Nov2022
Sprint-4	8	6Days	14Nov2022	19 Nov2022	8	19 Nov2022

Table 6.2.2 Sprint Delivery Schedule

6.3 REPORTSFROMJIRA

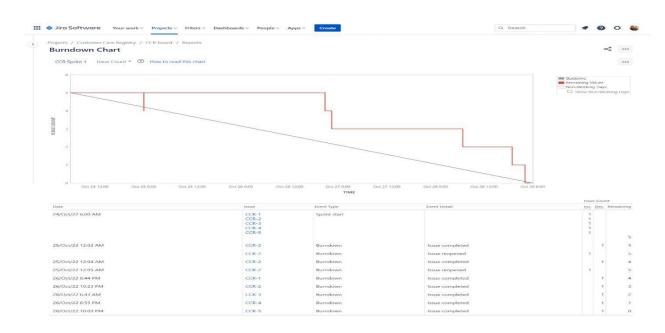


Figure 6.3.1 Reports from JIRA

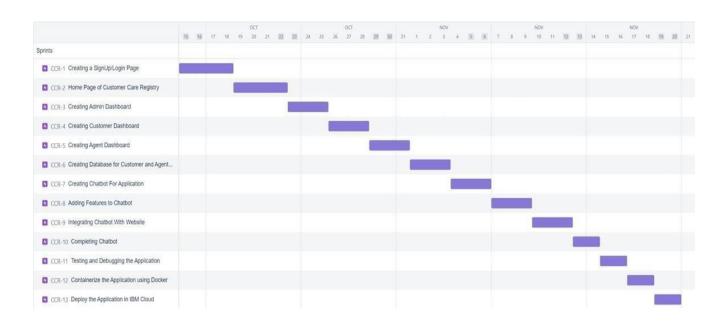


Figure 6.3.2 Reports from JIRA

CODING AND SOLUTIONING

College graduates with prior programming expertise or technical degrees are recruited and transitionedintoprofessionalpositionswithAlabamafirmsandorganizationsthroughthehighlycompetitiveC odingSolutionsjobacceleratorandtalentrefinementprogrammeatnocosttothegraduates.Weprovideapoolof varied,well-trained,techs-savvy individualsthatwants tolaunch and advance theircareerinAlabama.Themission ofveteran-andwoman-ownedCodingSolutionsistomobilizethenextgeneration of IT talent and provide them the tools and resources they require to make your businesssuccessful. Innovative talent is necessary for innovative technologies. We wish to provide CodingSolutionsprospectstoassistyouexpandyourAlabamateam. Ourapplicantsareswiftlyhiredatthetopofthelistbygrowingbusinessesforlucrative,long-termpositions.

7.1 Features1

- 7 Maintypesofcustomerneeds
- User-friendly
- Empathy
- Fairness
- Control
- Alternatives
- Information

7.2 Features2

- ComplaintTracking
- EmailAlert
- 24/7Monitoring

CHAPTER 13 APPENDIX

SOURCECODE

```
Tests.py
from django.db import
models
# Create your models
here.
class
RegistrationModel (model
s.Model):
uname=models.CharField(
max length=250)
pwd=models.CharField(ma
x length=250)
addr =
models.CharField(max le
ngth=250)
email =
models.CharField(max le
ngth=250)
mno =
models.CharField(max le
ngth=250)
views.py
from django.shortcuts
import render, redirect,
get object or 404
from django.http import
HttpResponse
from care.models import
RegistrationModel
from django.db.models
import Q
from customer.settings
import
DEFAULT FROM EMAIL
from django.core.mail
import
EmailMultiAlternatives
import mysql.connector
#import numpy as np
#import
matplotlib.pyplot as
plt
#import subprocess
from random import
randint
# Create your views
here.
def index(request):
if request.method ==
"POST":
email=
request.POST.get('uname
', '')
pwd =
request.POST.get('pwd',
request.session['email']
request.POST.get('uname
', '')
if
RegistrationModel.objec
ts.filter(email=email,p
```

wd=pwd).exists()

```
print(request.session['email'])
return render(request, 'master.html')
else:
return render(request, 'user_regist.html')
return render(request, 'index.html')
# return render(request, 'index.html')
def login(request):
if request.method == "POST":
uname = request.POST.get('uname')
pwd = request.POST.get('pwd')
addr = request.POST.get('addr')
email = request.POST.get('email')
mno = request.POST.get('mno')
if RegistrationModel.objects.filter(uname=uname).exists():
return HttpResponse("Already registered")
if RegistrationModel.objects.create(uname=uname,pwd=pwd,addr=addr,email=email,mno=mno):
subject = "Registration"
text content = ""
\# \text{ otp} = \text{randint}(1000, 9999)
st="Registered successfully"
request.session['email'] = request.POST.get('email')
html content = "<br/>p>Registration :<strong>" + str(st) + "</strong>"
from mail = DEFAULT FROM EMAIL
to \overline{\text{mail}} = [\text{email}]
print(to mail)
msg = EmailMultiAlternatives(subject, text_content, from_mail, to_mail)
msg.attach_alternative(html_content, "text/html")
msa.send()
return render(request, 'index.html')
return render(request, 'user regist.html')
```

8. TESTING

- 1. TestCases
- 2. UserAcceptanceTesting

9. RESULTS

1. PerformanceMetrics

10. ADVANTAGES&DISADVANTAGES

- 11. CONCLUSION
- 12. FUTURESCOPE
- 13. APPENDIX

SourceCode

GitHub&ProjectDemoLink