PROJECT REPORT ON

NAVKAR FITTINGS CORPORATION

UNDER THE GUIDANCE OF

Ms Nawal Dandekar

&

Prof. Mrs. Krupa Balsara Kamdar

UNIVERSITY OF MUMBAI

T.Y.B.Sc (COMPUTER SCIENCE)

ACADEMIC YEAR: 2021-2022



BHARTIYA VIDYA BHAVAN'S MM COLLEGE OF ARTS, NM COLLEGE OF COMMERCE & HRJ COLLEGE OF COMMERCE

BHAVAN'S COLLEGE

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BHAVAN'S COLLEGE, ANDHERI (W)

CERTIFICATE

This is to certify that **NIKHIL AJEET SINGH** of the class T. **Y. B. Sc. Computer Science** has satisfactorily completed the practical course in **Group 5** as prescribed by the University of Mumbai during the academic year **2021** – **22**.

Signature **Staff in charge**

Signature **Computer Science Coordinators**

Signature

CLIENT CERTIFICATE

NAVKAR FITTINGS CORPORATION

House No. 94, Kohli Post Kaman,

Naigaon (E), Polgharr- 401208, Maharashtra, India. STOCKIST & SUPPLIERS IN: FERROUS & NON - FERROUS METALS, SPECIALIST IN: SS FITTINGS, MITER BENDS. Contact us:- 9224297356

Email: Infoenavkarengg.com & salesenavkarengg.com GST TIN No. 27AGHPJ0594KIZ3

CERTIFICATE OF COMPLETION

This is presented to

NIKHIL AJEET SINGH

From Bhavan's College Andheri(W) studying in T.Y.B.SC.CS for building & completing our Business Website according to our vision & requirements in a short span of time.

Preeti R Jain

Proprietor

This document is computer attested



<u>ACKNOWLEDGEMENT</u>

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-Thank you

Index

Sr. No.	Topics	Page No.
1.	Preliminary Investigation	8
	1.1. Organizational Overview/Introduction	9
	1.2. Description of System	9
	1.3. Limitations	9
	1.4. Proposed system and Number of Modules	10
	1.5. Requirement Specification: software/hardware/data requirement	11
	1.6. Gantt Chart	11
2.	System Analysis	12
2.	· · ·	13
	2.1. Fact Finding Techniques (Questionnaire, Sample Reports, Forms)	13
	2.2. Event Table	14
	2.3. Use Case Diagram	16
	2.4. ERD	17
	2.5. Class diagram	18
	2.6. Object Diagram	19
	2.7. Activity Diagram	20
	2.8. Sequence diagram	21
	2.9. Collaboration Diagram	-
	2.10. Methodology	-
	2.11. Algorithm	-
	2.12. DFD	-
	2.13. Architecture	-
	2.14. Protocol	-
2	St D	22
3.	System Design	22
	3.1 Component Diagram	23
	3.2 Package Diagram	-
	3.3 Deployment Diagram	24
4.	System Coding	25
	4.1 Menu Tree	26
	4.2 List of tables with attributes and constraints	28
	4.3 Program Description [Programs /Classes and their	30

	responsibilities in brief] with Naming Conventions.	
	4.5 Validations	36
	4.6 Test Cases, Test Data and Test Results	38
	4.7 Screen Layouts & Report Layouts	40
5.	Conclusion&Future Scope	50
6.	References, Books, web links, research articles, etc.	51

NIKHIL SINGH 6 TYCS47

LIST OF TABLES:

Sr.no	Table name	
1	Use case description table	
2	Event table	
3	Validation table	
4	Test case table	

LIST OF FIGURES:

Sr.no	Figure name
1	E- R diagram
2	Class diagram
3	Object diagram
4	Use case diagram
5	Activity diagram
6	Sequence diagram
7	Deployment diagram
8	Component diagram
9	Menu tree

NAVKAR FITTINGS CORPORATION BLACK BC	ООК
4	
1.	
PRELIMINARY INVEST	TGATION

1.1 Organizational Overview

Navkar Fittings Company is a leading manufacturer of all types of Pipe Fittings viz. M.S. Pipe Fittings, S.S. Pipe Fittings, etc, catering to the industries like Pharma, Oil & Gas, Manufacturing, Chemical and Dairy Industries.

Our dedication and commitment towards the quality of our products, maintenance of our plant, higher productivity and trained and skilled Human Resources has helped to us sustain for more than 15 years in the industry.

Our vision is to become the leading company in S.S & Pipe-Fitting products and related businesses. Navkar is committed to provide quality products to its customers as per standard and best suited to local environment at affordable price.

1.2 Description of the existing system

- Deployed at http://www.navkarengg.com/
- Made in php + html +css +js
- No database involved
- Completely static

1.3 Limitation of the present system.

- Bad UI
- Static website
- Old look
- No interactivity with users
- Redundant products are still listed
- Not at all organized
- automated mailing doesn't work

1.4 The proposed system

- better UI
- More interactive surface
- faster loading
- Admin panel to update products and website info
- To collect customer information and interests on products
- automated mailing system

Advantages of proposed system

- Admin will be able to add /update/delete products as per requirement
- Admin will be able to update website info as per requirement
- Better UI and interactivity will bring in more customers
- Customers can place requests easily
- Website will be organized and future updates will be easy
- customer and admin will be notified through mailing system

Number of modules in the proposed system

- Admin
- Customer
- Product
- Request
- Email (optional module)

1.5 Requirements and FEASIBILITY STUDY

Technical Feasibility

Hardware Requirements

- 1. Intel i3 or higher.
- 2. 1 GB RAM.
- 3. >1 GB Hard-disk space.

Software Requirements

- 4. Windows 7 or higher, any Linux distro
- 5. Google Chrome or Firefox Browser.

Operational Feasibility: This project is operationally feasible, easy to handle with basic input, the user interface is easily interact by user. The Operation of adding, updating, deleting is easy to handle. The database connectivity is provided by Developer.

Economic Feasibility: this project can be deployed on any webhosting platform supporting php and mysql. First time deployment will be done for free by developer after current domain expires.

1.6 Gantt Chart

Task Name	29 June 2020	13 July 2	2020	20 July 2020	03 Aug 2020	31 Aug 2020	14 Sept 2020	28 Sept 2020
Pleeminary investigation								
analysis								
Design								
Coding								
Testing								
Deployment								

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2.	
SYSTEM ANALYSIS	
NIKHIL SINGH 12	TYCS47

2.1 Fact Finding Techniques (Questionnaire, Sample Reports, Forms...)

Questionnaire

- Do you have any existing website?
- . What should be the name of the website?
- Do you have any color scheme preferences for your website?
- Does the admin need to login?
- What is the basic information required for the customer to register into the website?
- Is it necessary for the customers to login to place an request?
- How do customers place a customized request?

2.2 EVENT TABLE:

TRIGGER:

Trigger an occurrence that tells the system that has occurred, either the arrival of data needing or of a point in time

SOURCE:

An external agent or actor that supplies data to the system

ACTIVITY:

Behavior that the system performs when an event occurs

RESPONSE:

An output produced by the system that goes to a destination.

DESTINATION:

An external agent or actor that receives data from the system

Table: 1. Login/Register Use Case

	Log-in/Register
Use Case Name	
Summary/Description	Use case depicting how an Admin or Customer would login.
Actors	Admin and Customer
Pre-Condiditions	Log-in ID must be present in Login table for both Customer and Admin
Descriptions	Admin or Customer will have to login to land on their respective home pages. From here they can perofrm their respective actions.
Exception	No ID present in the Login table, which wll give them an error
Trigger	Trigger is activated when a new customer registers and this trigger notifies respective customer and admin through mail
Post-Condition	Admin and Customer successfully Login.

Table: 2. Customer Use Case

Use Case Name	Customer Use Case				
Summary/Descripti on	Use case depicting how an Customer will log-in and then perform his respective tasks from the web application				
Actors	1				
	Customer and Admin				
Pre-Condiditions	Customer Login ID must be present in the Login table enabling Customer to login				
Descriptions	Once the Customer has logged in to the system, he can perform various tasks such as, Placing an Request, View Placed Requests, view contact info, view products, search products, logout				
Exception	Customer ID is not present				
Trigger	Trigger is activated when a new Request is made and this trigger notifies respective customer and admin through mail				
Post-Condition	Customer is able to successfully log-in and perform all the actions he is authorized to.				

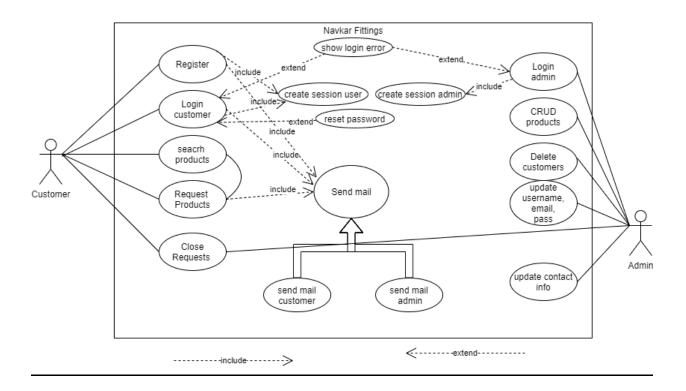
Table: 3 Admin Use Case

	Admin Use Case
Use Case Name	
Summary/Descripti	Use case depicting how a system admin will be able to log-in and
on	perform his respective tasks in the web application
Actors	Admin
Pre-Condiditons	Person trying to log-in must have adminstrative privileges.
Descriptions	Admin holds all the rights the system has to offer. He/She can create view, update delete products. Delete existing customers, update admin username ,email and password , and update contact info of the site

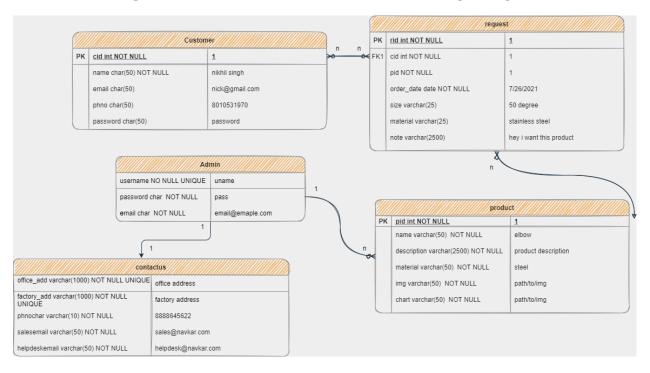
NIKHIL SINGH 15 TYCS47

Exception	Person trying to log-in does not have administrator privileges.
Post-Condition	Admin is successfully able to log-in and perform tasks.

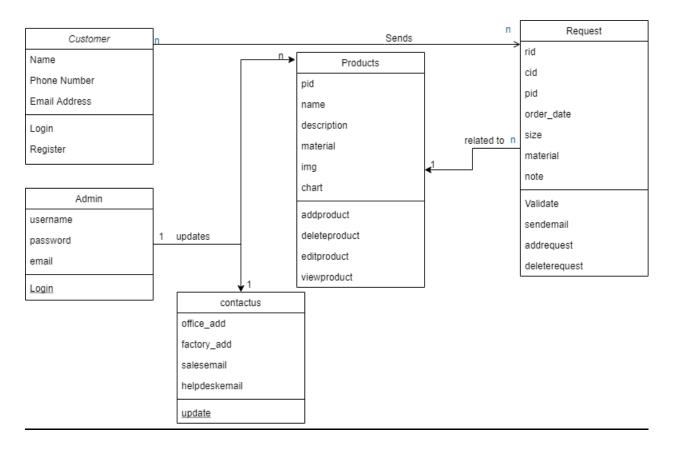
2.3 USE CASE DIAGRAM



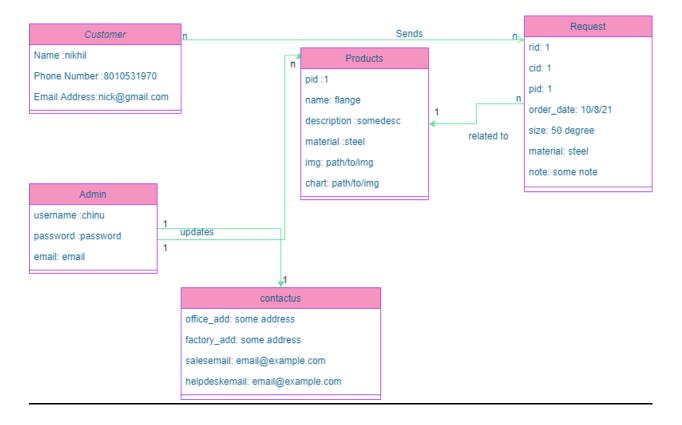
2.4 Enitity relationship DIAGRAM (erd)



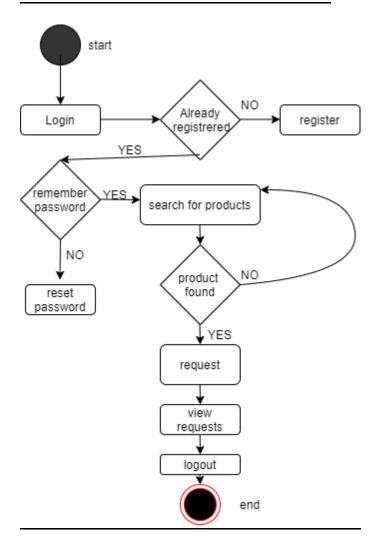
2.5 CLASS DIAGRAM



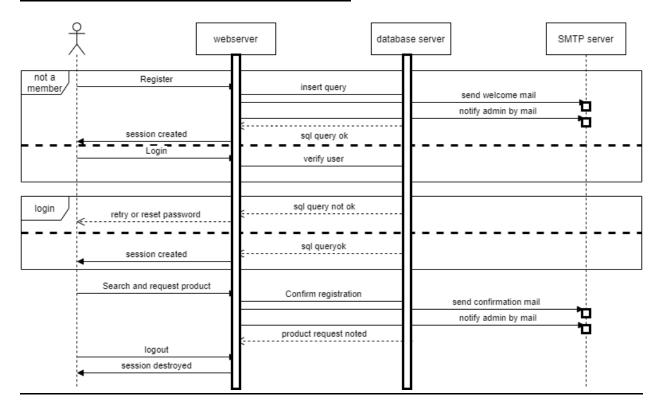
2.6 OBJECT DIAGRAM



2.7 ACTIVITY DIAGRAM

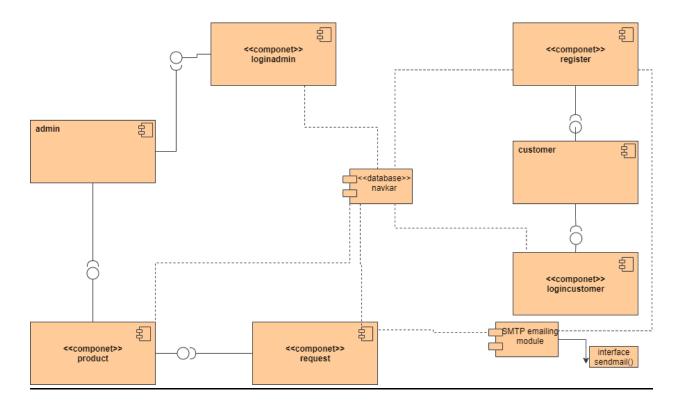


2.8 SEQUENCE DIAGRAM

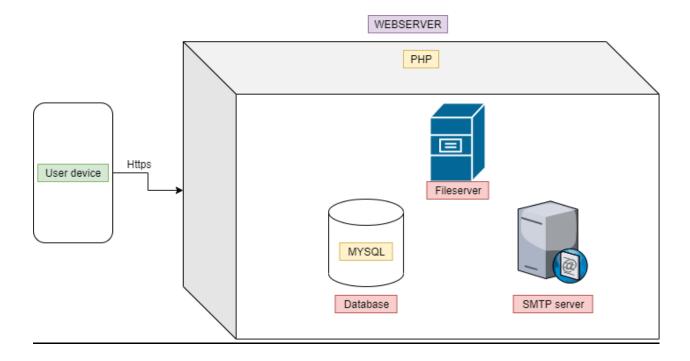


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3. SYSTEM DESIGN	
NIKHIL SINGH 22	TYCS47

3.1 COMPONENT DIAGRAM

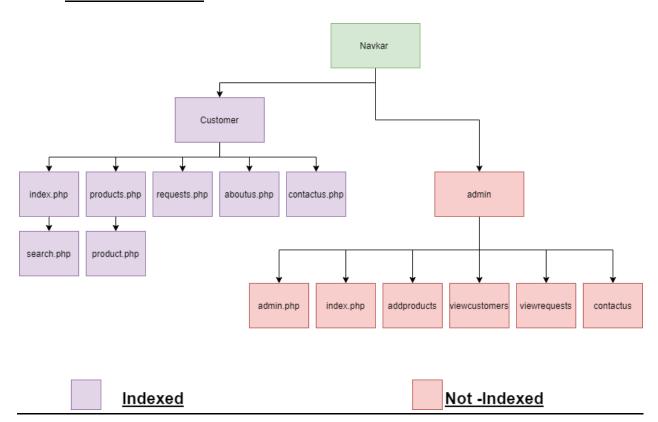


3.3 DEPLOYMENT DIAGRAM



NAVKAR FITTINGS CORPORATION BLACK BOOK	
4. SYSTEM CODING	
NIKHIL SINGH 25	TYCS47
NIKHIL SINGH 25	

4.1 Menu Tree



NIKHIL SINGH 26 TYCS47

Sitemap

```
<?xml version="1.0" encoding="UTF-8"?>
```

<urlset xsi:schemaLocation="http://www.sitemaps.org/schemas/sitemap/0.9
http://www.sitemaps.org/schemas/sitemap/0.9/sitemap.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://www.sitemaps.org/schemas/sitemap/0.9">

<!-- created with Free Online Sitemap Generator www.xml-sitemaps.com -->

```
<url><loc>https://navkarfittings.000webhostapp.com/</loc><lastmod>2021-10-
08T05:36:58+00:00loc>https://navkarfittings.</url>
000webhostapp.com/index.php</loc><lastmod>2021-10-
08T05:36:58+00:00</lastmod><priority>0.80</priority></url><url><loc>https://navkarfittings.
000webhostapp.com/aboutus.php</loc><lastmod>2021-10-
08T05:36:58+00:00</lastmod><priority>0.80</priority></url><url><loc>https://navkarfittings.
000webhostapp.com/products.php</loc><lastmod>2021-10-
08T05:36:58+00:00loc>https://navkarfittings.</url>
000webhostapp.com/requests.php</loc><lastmod>2021-10-
08T05:36:58+00:00loc>https://navkarfittings.</ur>
000webhostapp.com/contactus.php</loc><lastmod>2021-10-
08T05:36:58+00:00</lastmod><priority>0.80</priority></url><url><loc>https://navkarfittings.
000webhostapp.com/login.php</loc><lastmod>2021-10-
08T05:36:58+00:00loc>https://navkarfittings.</url>
000webhostapp.com/register.php</loc><lastmod>2021-10-
08T05:36:58+00:00</lastmod><priority>0.64</priority></url>
</urlset>
```

NIKHIL SINGH 27 TYCS47

4.2 TABLES WITH ATTRIBUTES AND CONSTRAINTS

Customer

Table 1: Customer

Field Name	Data Type	Constraint	Description
cid	int	PRIMARY KEY	Id of customer
name	varchar(15)	NOT NULL	Name of customer
email	varchar(50)	NOT NULL	Email of customer
phno	varchar(10)	NOT NULL	Contact no of customer
password	varchar(10)	NOT NULL	Password of Customer

<u>Admin</u>

Table 2: Admin

Field Name	Data Type	Constraint	Description
username	varchar(10)	NOT NULL UNIQUE	Name of Admin
email	varchar(50)	NOT NULL	Email of Admin
password	varchar(10)	NOT NULL	Password of Admin

Contactus

Table 2: Contact us

Field Name	Data Type	Constraint	Description
Office_add	Varchar(1000)	NOT NULL	Office address
factory_add	Varchar(1000)	NOT NULL	Factory address

NIKHIL SINGH 28 TYCS47

phno	varchar(10)	NOT NULL	Phone number
salesemail	varchar(50)	NOT NULL	Sales email
helpdeskemail	varchar(50)	NOT NULL	Help Desk email

Products

Table 3: Products

Field Name	Data Type	Constraint	Description
pid	int	PRIMARY KEY	Id of Product
name	varchar(25)	NOT NULL	Name of Product
description	varchar (2500)	NOT NULL	Details of Product
category	varchar(50)	NOT NULL	Category of Product
material	varchar(10)	NOT NULL	Type of Material Selected
Img	varchar(50)		Image path
chart	varchar(50)		Chart path

Requests

Table 4: Requests

Field Name	Data Type	Constraint	Description
rid	int	PRIMARY KEY	Id of request
pid	int	NOT NULL	Id of Product
cid	int	NOT NULL	Id of Customer
note	varchar (2500)		Note to seller
size	varchar(25)		Size of Product Requested

Request_dat	Date	NOT NULL	Date of Request
e			
material	varchar(25)		Type of material Selected

4.3 Program Description

Some important codes

Functions.php

```
(Functions for redirect verifying sessions and mailing code)
<?php
function verifysession(){
    if(isset($_SESSION["cid"]))
      return true;
    }
    else{
      return false;
    }
function verifysessionadmin(){
  if(isset($_SESSION["name"]))
    return true;
  else{
    return false;
  }
function Redirect($url, $permanent = false)
/* if (headers_sent() === false)
    header('Location: '. $url, true, ($permanent === true) ? 301 : 302);
*/
```

NIKHIL SINGH 30 TYCS47

```
echo("<script>location.href = '$url';</script>");
  exit();
function sendamail($to,$subject,$content){
require ('smtp/PHPMailerAutoload.php');
$mail = new PHPMailer();
try {
 //Server settings
 //$mail->SMTPDebug = SMTP::DEBUG_SERVER;
                                                          //Enable verbose debug output
  $mail->isSMTP();
                                         //Send using SMTP
  $mail->Host = 'smtp.gmail.com';
                                              //Set the SMTP server to send through
  $mail->SMTPAuth = true;
                                             //Enable SMTP authentication
  //$mail->SMTPDebug=3;
  $mail->Username = 'somemail@gmail.com';
                                                        //SMTP username
  $mail->Password = 'somepass';
                                                //SMTP password
  //$mail->SMTPSecure = PHPMailer::ENCRYPTION STARTTLS;
                                                                 //Enable implicit TLS encryption
  $mail->SMTPSecure='tls';
  $mail->Port
                                         //TCP port to connect to; use 587 if you have set
                = 587;
`SMTPSecure = PHPMailer::ENCRYPTION_STARTTLS`
 //Recipients
  $mail->setFrom('recruit.my.freelancer@gmail.com', 'Navkar');
  $mail->addAddress($to); //Add a recipient
 // $mail->addReplyTo('info@gmail.com', 'Information');
 //$mail->addCC('cc@gmail.com');
 // $mail->addBCC('bcc@gmail.com');
  //Content
  $mail->isHTML(true);
                                       //Set email format to HTML
  $mail->Subject = $subject;
  $mail->Body = $content;
  $mail->send();
 // echo 'Message has been sent';
} catch (Exception $e) {
  //echo "Message could not be sent. Mailer Error: {$mail->ErrorInfo}";
}
?>
```

NIKHIL SINGH 31 TYCS47

header.php

```
(code for included header in all customer files)
```

```
<?php
session_start();
?>
<?php require("head.php"); ?>
<body>
 <header>
   <nav class="flex flex-spacearound">
     class="inactive">
         <div id="collapse" class="collapse">
           <img src="https://img.icons8.com/material-outlined/24/ffffff/menu--v1.png"/>
         </div>
       class="nilactive">
         <img src="./img/Logo.png" hieght="50px" width="50px">
       <div>
          <?php
            if(verifysession()){
            $sql="SELECT name FROM customer where cid=".$_SESSION['cid'];
            $result=mysqli_query($conn,$sql);
            while($rows=mysqli_fetch_array($result)){
              ?>Welcome <?php echo $rows[0];?>
                <?php
            }
            else{
            ?>
```

```
Navkar Fittings Corporation
               <?php
          }
          ?>
        </div>
        <a href="./index.php"> Home </a>
        <a href="./aboutus.php"> About Us </a> 
        <a href="./products.php"> Products </a> 
        <a href="./requests.php"> Requests </a> 
        <a href="./contactus.php"> Contact us </a> 
        <a href="./login.php">
          <?php
        if(!verifysession()){
          echo "Login";
        }
        else
          {echo "Logout";}
        ?>
        </a> 
     </nav>
 </header>
footer.php
(code for footer included in all files)
<footer class="text-center">
 <script>
   collapser();
 </script>
 <a class="colorwhite" href="https://codewithnick.github.io/">
   This Site is Made By @codewithnick
 </a>
</footer>
```

NIKHIL SINGH 33 TYCS47

```
</body>
```

search.php

```
(code for searching of a product)
<?php include("header.php"); ?>
<?php include("connection.php"); ?>
<div style="height:fit-content;">
  <div>
    <div class="sizefull flex flex-center flex-col">
      <?php
      if(isset($_GET['s'])){
        $s="%".$_GET['s']."%";
        $sql="SELECT * FROM product Where name LIKE '$s' or category LIKE '$s' or description LIKE
'$s' or material LIKE '$s' ORDER BY name";
        $result=mysqli_query($conn,$sql);
        while($rows=mysqli_fetch_array($result)){?>
        <!--start here -->
           <div class="card product-card flex flex-spacearound">
             <img src="<?php echo $rows['img'];?>" class="product-img">
             <div class="sizefull product flex flex-col">
             <div class="product-title text-left">
                 <?php echo $rows['name']?>
               </div>
               <div class="text-left">
```

NIKHIL SINGH 34 TYCS47

```
Category: <?php echo $rows['category']?>
               </div>
               <div class="product-material text-left">
                 Material: <?php echo $rows['material']?>
               </div>
               <div class="product-desc text-left textgrey">
                 <?php echo $rows['description']?>
               </div>
               <div class="text-right">
                 <a href=<?php echo "./product.php?pid=".$rows["pid"]?>> View More...</a>
               </div>
             </div>
          </div>
        <!--end here -->
      <?php
        }}?>
    </div>
  </div>
</div>
<?php include("footer.php"); ?>
```

NIKHIL SINGH 35 TYCS47

4.5 VALIDATIONS

Customer

Table 1: Customer

Field Name	Valid values	Invalid values
cid	1,2,3	A,b,c
name	abc	Abc123
email	Abc.@pqr.xyz	Abc.v
phno	1111111111	Abc
password	Abed3822,32n,#bfu	-

<u>Admin</u>

Table 2: Admin

Field Name	Valid values	Invalid values
username	abc	Abc123
email	Abc.@pqr.xyz	Abc.v
password	Abed3822,32n,#bfu	-

Contactus

Table 2: Contact us

Field Name	Valid values	Invalid values
Office_add	abc	-
factory_add	abc	-

phno	1111111111	Abc
salesemail	Abc.@pqr.xyz	Abc.v
helpdeskemail	Abc.@pqr.xyz	Abc.v

Products

Table 3: Products

Field Name	Valid values	Invalid values		
Pid	1,2,3	A,b,c		
name	abc	Abc123		
description	Abc123	-		
category	Abc123	-		
material	Abc123	-		
Img	Path/to/file.extension	\$%#%12		
chart	Path/to/file.extension	#\$#% 154		

Requests

Table 4: Requests

Field Name	Constraint	Description
Rid	1,2,3	A,b,c
Pid	1,2,3	A,b,c
cid	1,2,3	A,b,c
Note	Abc123	-
Size	Abc123	-

Request_dat	22-01-2022	22012022,abc,#\$@\$
e		
Material	Abc123	-

4.6 TEST CASES, TEST DATA, TEST RESULT

Table 1: Test Case Table

Test Case Id:	Module (Unit to be tested)	Why?	Desired Output	Observed Output	Pass or Fail
1	Authentication & Login	Providing login into the system only for authentic users.	Access should be provided only after proper check of username and password.	Access was provided only after proper check of username and password.	Pass
2	Adding Customer	Admin can add new Customer	Adding feature should be provided on registration	Adding feature was provided	Pass
3	Deleting Customer Details	Only Admin can delete details.	Deleting feature should be provided to the Admin.	Deleting feature was provided to the Admin.	Pass
4	Viewing Customer Details	Only Admin can view details of Customer	Viewing Customer details should be provided to the Admin.	Viewing an Customer details was provided to the Admin details.	Pass
5	Adding Products	Only Admin can add new Products.	Adding feature should be provided to the admin.	Adding feature was provided to the Admin.	Pass

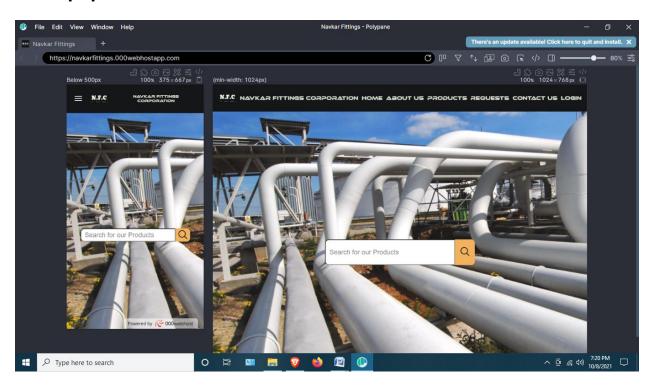
6	Updating Products	Only Admin can update Product details.	Updating feature should be provided to the admin to update their Product details.	Updating feature was provided to the admin.	Pass
7	Deleting Products	Only Admin can delete Products.	Deleting feature should be provided to the Admin.	Deleting feature was provided to the Admin.	Pass
8	Customer Registration	Only Customer can Register himself.	Registering feature should be provided to the Customer.	Registration feature was provided to the Customer.	Pass
9	Place Request	Only Customer can place Request	Request Placing feature should be provided to the Customer	Request placing feature was provided to the Customer.	Pass
10	View Placed Request	Admin and customer can view Placed Requests	Viewing Requests feature should be provided to the Admin and customer	Viewing Requests feature was provided to the Admin and customer	Pass
11	Delete Placed Request	Admin and customer can Delete Placed Requests	Delete Requests feature should be provided to the Admin and customer	Delete Requests feature was provided to the Admin and customer	Pass
12	Deleting Customers	Only Admin can delete Customers	Deleting feature should be provided to the Admin.	Deleting feature was provided to the Admin.	Pass
13	Search	Only Customer can Search products	Search feature should be provided to the Customer	Search feature was provided to the Customer.	Pass

NIKHIL SINGH 39 TYCS47

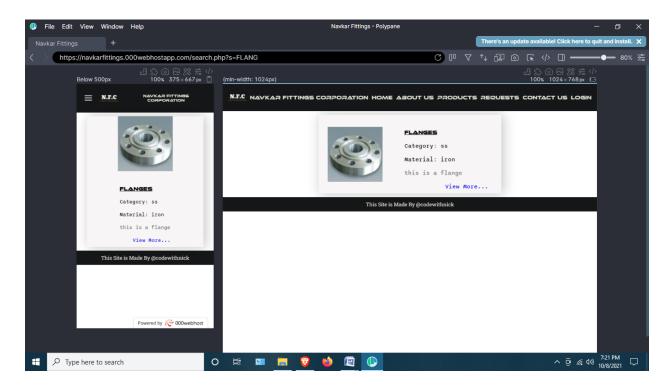
14	Send mail	Admin and	Admin and customer	Admin and customer	pass
		customer	Should recieve mail	recieve mail on	
		recieve mail	on customer	customer resigtraion	
			resigtraion and	and product request	
			product request		
			_		

4.7 SCREEN LAYOUT AND REPORT LAYOUT

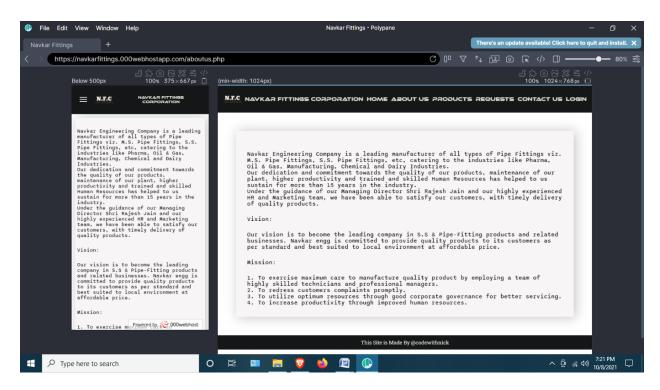
Index.php



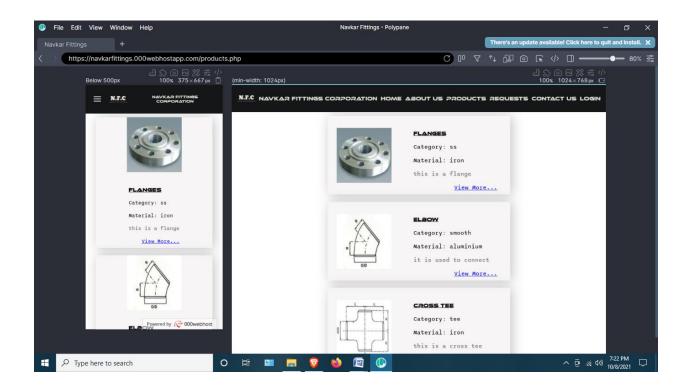
SEARCH.PHP



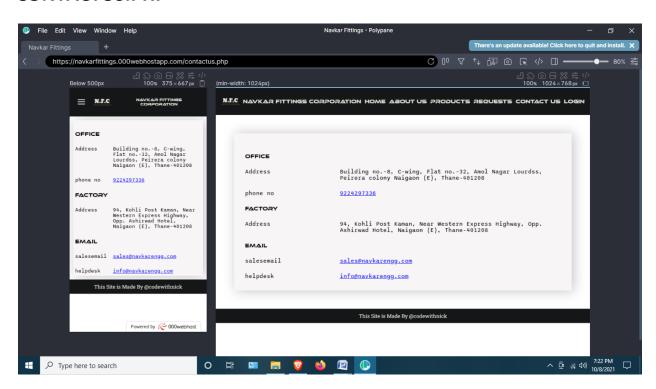
ABOUTUS.PHP



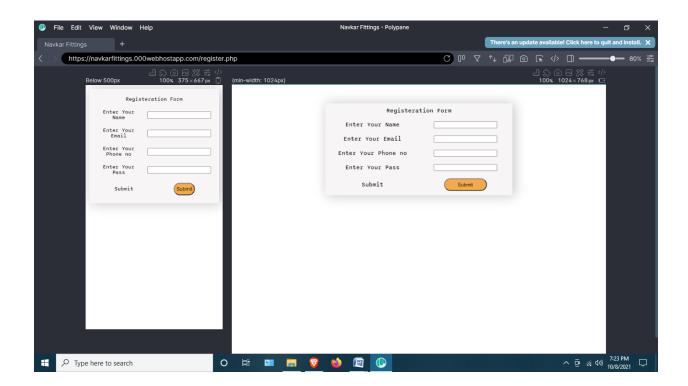
PRODUCTS.PHP



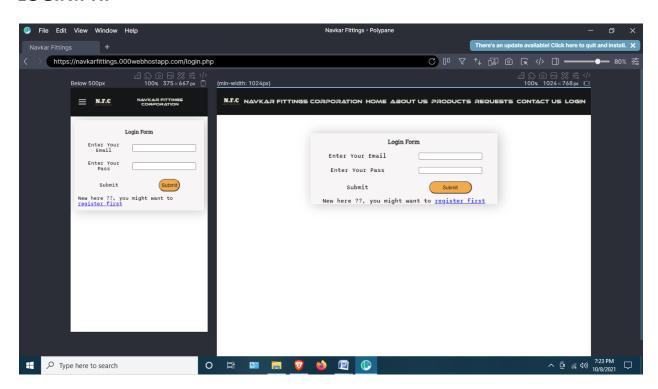
CONTACTUS.PHP



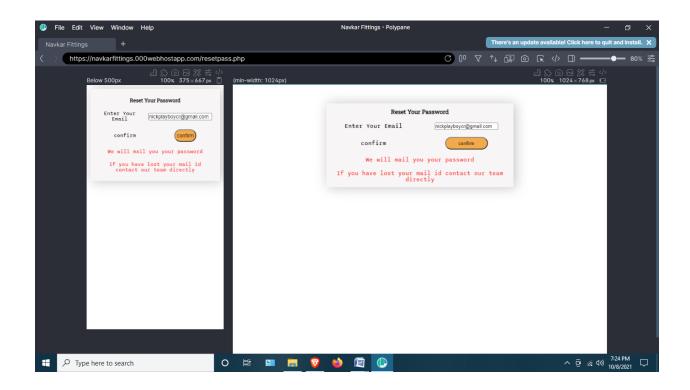
REGISTER.PHP



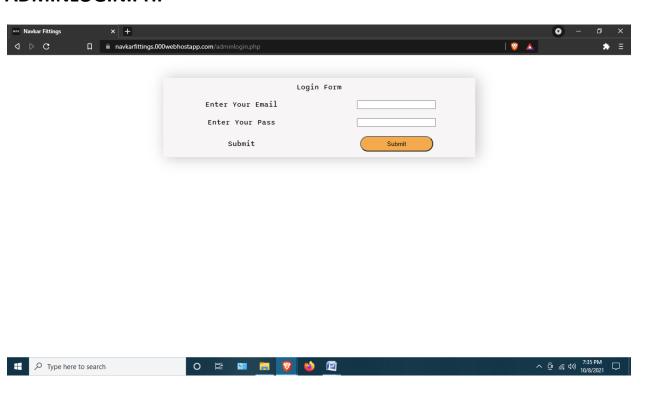
LOGIN.PHP



RESETPASS.PHP

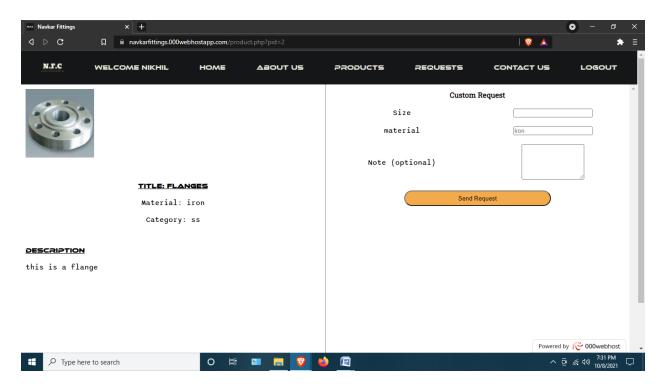


ADMINLOGIN.PHP

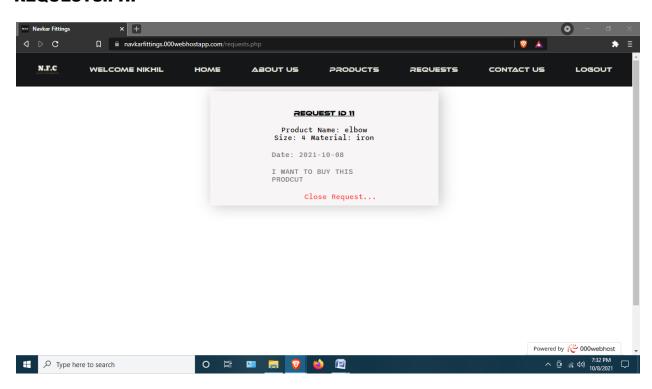


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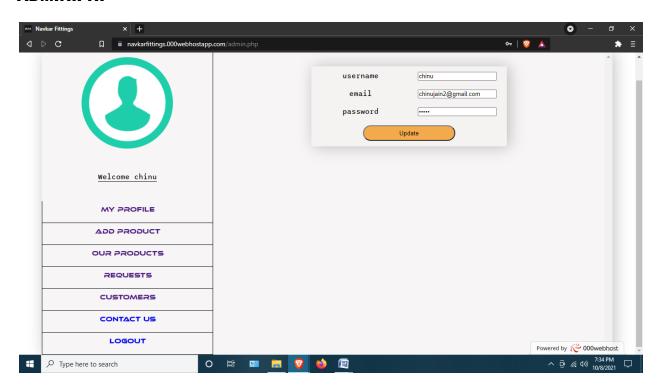
PRODUCT.PHP



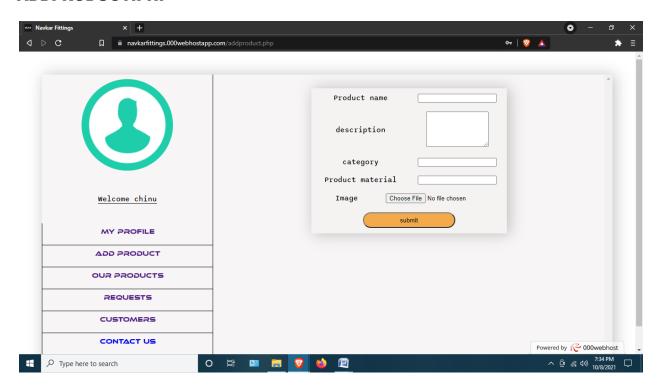
REQUESTS.PHP



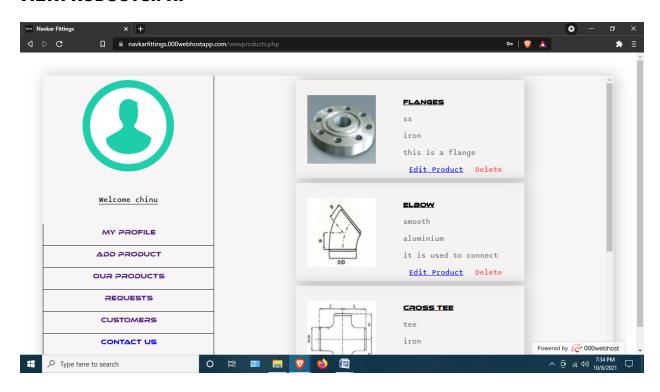
ADMIN.PHP



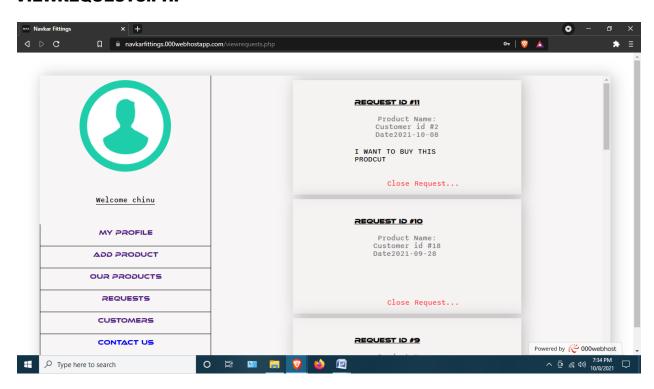
ADDPRODUCT.PHP



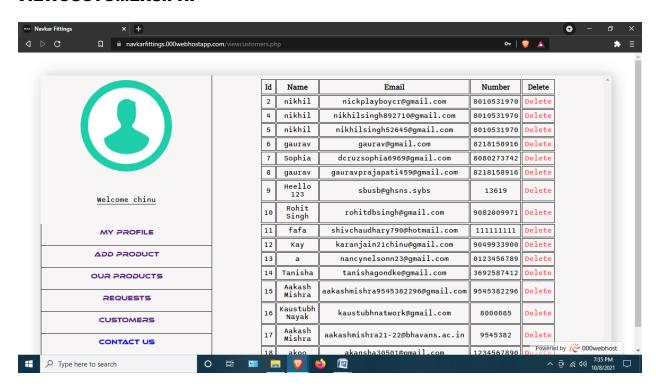
VIEWPRODUCTS.PHP



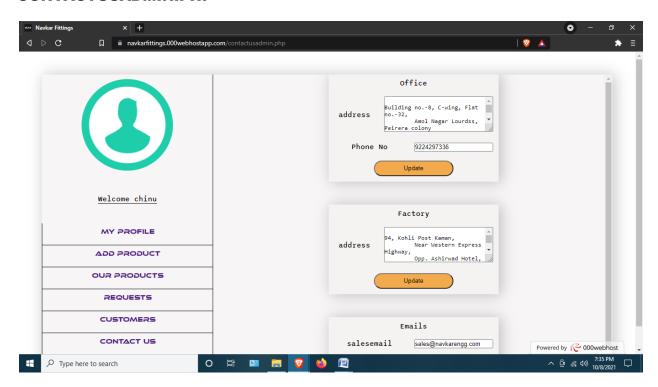
VIEWREQUESTS.PHP



VIEWCUSTOMERS.PHP

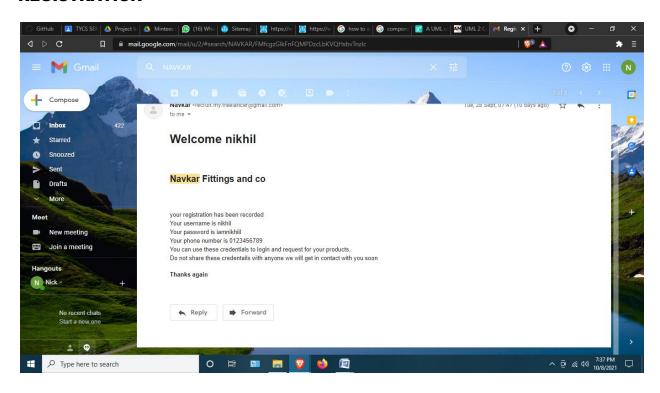


CONTACTUSADMIN.PHP

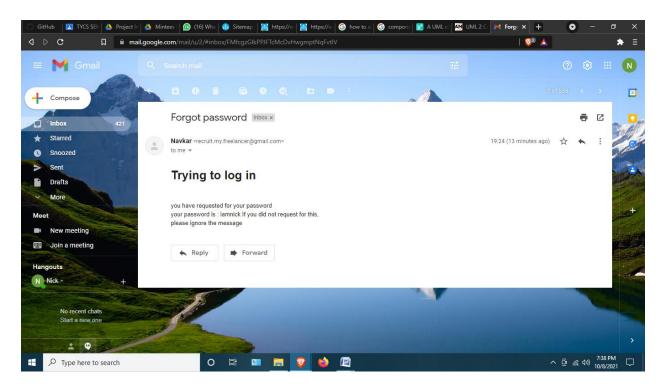


EMAILS

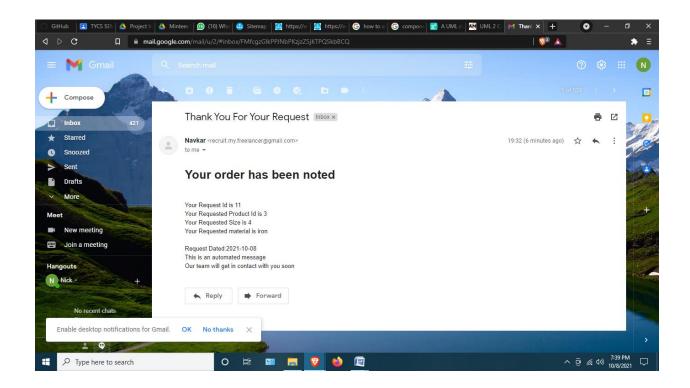
REGISTRATION



FORGOT PASSWORD



ON PRODUCT REQUEST



5. FUTURE SCOPE

- A chart will be added to all products ,with the images of the product the current part has been commented out on client request
- A live dm feature will be added for sales team
- The project will be deployed on the new domain of the firm

CONCLUSION

- An attempt is made in all its earnest towards the successful completion of the project. This system was verified with valid as well as with invalid data.
- The system is made on PHP and has a well defined gui, the customer module is also responsive and fit for any device
- The project has been open sourced at https://github.com/codewithnick/navkar-fittings-and-co with client consent although, this repo might be privatized later.
- The project has been deployed for anyone interested in testing at https://navkarfittings.000webhostapp.com/ with client consent although , this link might be down later.

6.References and Bibliography

WEBSITE REFERENCE

- www.youtube.com
- https://www.geeksforgeeks.org/
- https://polypane.app/
- https://app.diagrams.net/
- https://stackoverflow.com/
- https://css-tricks.com/

SOFTWARES USED

- 1. FOR DESIGNING
 - Draw.io
 - Vscode
- 2. FOR CODING

- Vscode
- Xampp
- Polypane
- 3. FOR DOCUMENTATION
 - Draw.io
 - Polypane
- 4. FOR DEPLOYMENT
 - WEBHOSTAPP000

EXTERNAL LIBRARIES USED

• PHP SMTP Lib