

SUN SERVICES

“ONE STOP SOLAR SOLUTION”

A PROJECT SUBMITTED TO

Atmiya University

Department of Computer Application & Information Technology

RAJKOT



Submitted in partial fulfillment of the requirements for the degree of

“Bachelor of Computer Application”

Sem-5

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Project Title	“Sun Services”
Project Id	BCAC3X018
Organization	Atmiya University-Rajkot
Front-End Tools	Xampp
Back-End Tools	<ol style="list-style-type: none">1. Mysql2. Database3. MongoDB
Language	<ol style="list-style-type: none">1. Php2. Html3. Javascript4. Css
Platform Used	<ol style="list-style-type: none">1. Visual Studio Code Version:- 1.81.12. Google Chrome Version:-116.0.5845.188
Developed By	Bhakti Hirpara
Project Guide	<ol style="list-style-type: none">1 (Dr) Madhuri Barchha2 (Dr) Malay Solanki

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Additionally, I want to acknowledge the open-source community and all the developers who contributed to the various libraries, frameworks, and tools we used in our project. Your work has greatly facilitated our development process and made it possible to create a robust and efficient system.

Thank you once again to everyone who contributed to this project, directly or indirectly. Your involvement and support have been invaluable, and we look forward to continued success and future endeavors.

Sincerely,
Bhakti Hirpara

DECLARATION

I, hereby declare that the project work entitled “**Sun Services**” is the original work done by me, and I further declare that it is never submitted anywhere else in part or in full.

“Bhakti Hirpara”

“210801129”

ABSTRACT

- In a world of late services and heightened customer expectations, the “Sun Services” PHP project emerges as a solution to revolutionize the Services industry.
- This project aims to develop an innovative web-based platform that addresses longstanding challenges faced by traditional servicing .
- Remaining Key objectives include the automation of order management, real-time package tracking, error reduction in address handling, and improved customer engagement.
- "Sun Services " seeks to enhance operational efficiency while prioritizing environmental sustainability by transitioning from paper-based documentation to digital systems.

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Chapter 1: Introduction

1.1 Problem Statement

- **Lack of Information:** Many solar panel owners and operators struggle to find reliable information and resources for solar panel maintenance and servicing. This lack of information often leads to system inefficiencies and reduced energy production.
- **Limited Access to Solar Maintenance Services:** Many homeowners and businesses with solar installations struggle to find reliable and affordable servicing and maintenance options. There is a need for a platform that connects them with trusted solar service providers.
- **Inefficient Scheduling and Coordination:** Coordinating solar servicing appointments can be cumbersome. Users require a system that streamlines the scheduling process, reducing wait times and improving service efficiency.
- **Quality Assurance:** Ensuring the quality of solar servicing is critical. The website needs mechanisms to verify and validate service providers, ensuring that users have access to skilled and reputable professionals.
- **User-Friendly Experience:** A user-friendly interface is essential for the success of the website. It should be accessible and intuitive for all users, regardless of their technical expertise.
- **Inefficient Service Request Process:** The process of requesting and scheduling solar panel servicing is often cumbersome and time-consuming. Homeowners and businesses need an easier way to request and manage maintenance services.
- **Service Provider Matching:** There is a need for a platform that effectively matches solar panel owners with qualified and trusted service providers. Ensuring that the service providers are experienced and certified is a key concern.

1.2 Project Scope

- Website Development: Design and develop a user-friendly website for solar servicing that is accessible on desktop .
- Service Request System: Develop a user-friendly system for solar panel owners to request maintenance and servicing. Allow users to input essential details, such as location, type of solar system, and specific service requirements. Implement a scheduling system that confirms service appointments.
- Feedback: Include a rating and review system for service providers. Gather feedback from users to continually improve service quality.
- Testing and Quality Assurance: Conduct thorough testing, including usability testing, security testing, and performance testing, to ensure a stable and reliable website.
- Maintenance and Support: Establish a support system for users and service providers to address inquiries and technical issues.
- Project Timeline and Milestones: Create a detailed project schedule with key milestones and deadlines for each development phase.

1.3 Purpose

- **Information Hub:** The website aims to provide a centralized repository of information and resources related to solar panel maintenance, cleaning, troubleshooting, and best practices.
- **Service Request Facilitation:** The website allows solar panel owners to easily request and schedule maintenance and servicing for their solar systems. It simplifies the process of finding qualified service providers and requesting their services.
- **Service Provider Connection:** For solar service providers, the website serves as a platform to showcase their qualifications, certifications, service areas, and pricing.
- **Maintenance Record Keeping:** Solar panel owners can use the website to maintain a digital record of their solar panel maintenance history.
- **User Community:** It can foster a community of solar panel owners and service providers, allowing them to share experiences, tips, and reviews. This sense of community can build trust and encourage collaboration within the industry.
- **Promotion of Solar Energy:** By promoting regular servicing and maintenance, the website contributes to the overall sustainability and effectiveness of solar energy systems. It encourages more individuals and businesses to invest in solar energy by addressing concerns related to maintenance.
- **Convenience and Accessibility:** The website offers a convenient and accessible platform for users to access information and services related to solar panel maintenance. Users can access it from the comfort of their homes or offices.
- **Data and Insights:** Over time, the website can collect data on servicing trends, user preferences, and common issues in the solar energy industry. This data can be valuable for improving services and addressing industry challenges.

Chapter 2: Requirements and Analysis

2.1 System Analysis

- Use Case Analysis: Create use cases and user stories to represent the interactions between different user roles (e.g., solar panel owner, service provider) and the system. Specify the steps, inputs, and outputs for each use case to understand how users will interact with the website.
- Data Modeling: Develop an entity-relationship diagram (ERD) to model the database structure, including tables for user profiles, maintenance records, service providers, and educational content. Define relationships between entities and attributes for each data entity.
- System Architecture: Decide on the technology stack for the website. Design the overall system architecture, including the front-end, back-end, and database components.
- User Interface Design: Create wireframes for the website's user interface, focusing on usability and user experience. Develop user interface design guidelines, including color schemes, fonts, and responsive design for PC.
- Testing and Quality Assurance: Develop a testing plan that includes unit testing, integration testing, usability testing, and security testing. Create test cases and conduct testing to ensure that the website meets its requirements and functions as expected.
- Documentation: Produce comprehensive documentation that includes system architecture diagrams, user manuals, and technical documentation for developers and administrators.
- Timeline and Milestones: Create a project timeline with key milestones and deadlines for each phase of development.

2.2 Software and Hardware Requirements

- Software Requirements:

- PHP

- Web Server : Apache

- Database Management System : MySQL

- Front-end Technologies: HTML, CSS, JavaScript

- Operating systems like Windows, Linux/Unix, MacOS etc..

- Text Editor like Visual Studio Code, Sublime Text or Notepad++ etc..

- Hardware Requirements:

- 8 GB RAM

- SSD (Solid State Drive)

- Hard Disk Space : 40 GB

- Network Infrastructure : High Internet Connection is necessary for web and database

Chapter 3: Project Planning and Scheduling

- Our project “Sun Services” which is designed for a Solar servicing system. The Project is developed by us to ease the Solar servicing work.

- Project Goals:

- Developing a web-based Solar Servicing system that can run operations like Knowledge about Different Types of Solar , Registration for Different Types of Solar Servicing, etc..

- Our main Goal is to Provide Our Customer Home Service from their Home itself.

- Project Planning & Scheduling:

Phase 1: Project Planning

- Project planning started with what unique features will be included in the project. Some features are Service is provided at their time & place.

Phase 2: Gathering Requirements & Analysis

- The next step is to find the correct Solar service template to start designing the website.

- Adding the basic features and needed features in the website like registration, adding, adding feedback or Service form.

- Explore more PHP projects and practiced a little about HTML, CSS and JavaScript which make me familiar with it and help further in my project.

Phase 3: Design

- By analyzing the whole system I created Use Case diagrams for the user and admin side.

- Designing ER diagram for both admin and user side.

- Designing DFD diagram 0-level, 1-level, 2-level for both admin and user side.

- Deciding the Logo and tag of the website.

Phase 4: Coding or Implementation

- Completing the design of user side & admin side.
- Design the database for storing information about Enquiry, Service Registration, feedback & personal Details.
- Create a normalized database structure.
- Developing PHP backend code.
- Implementing user registration and login code by connecting it to the database.
- Implementing PHP code on the user side for the operations like adding all Registration to the Database, Fetching data From the database And show it into User side.

Phase 5: Testing

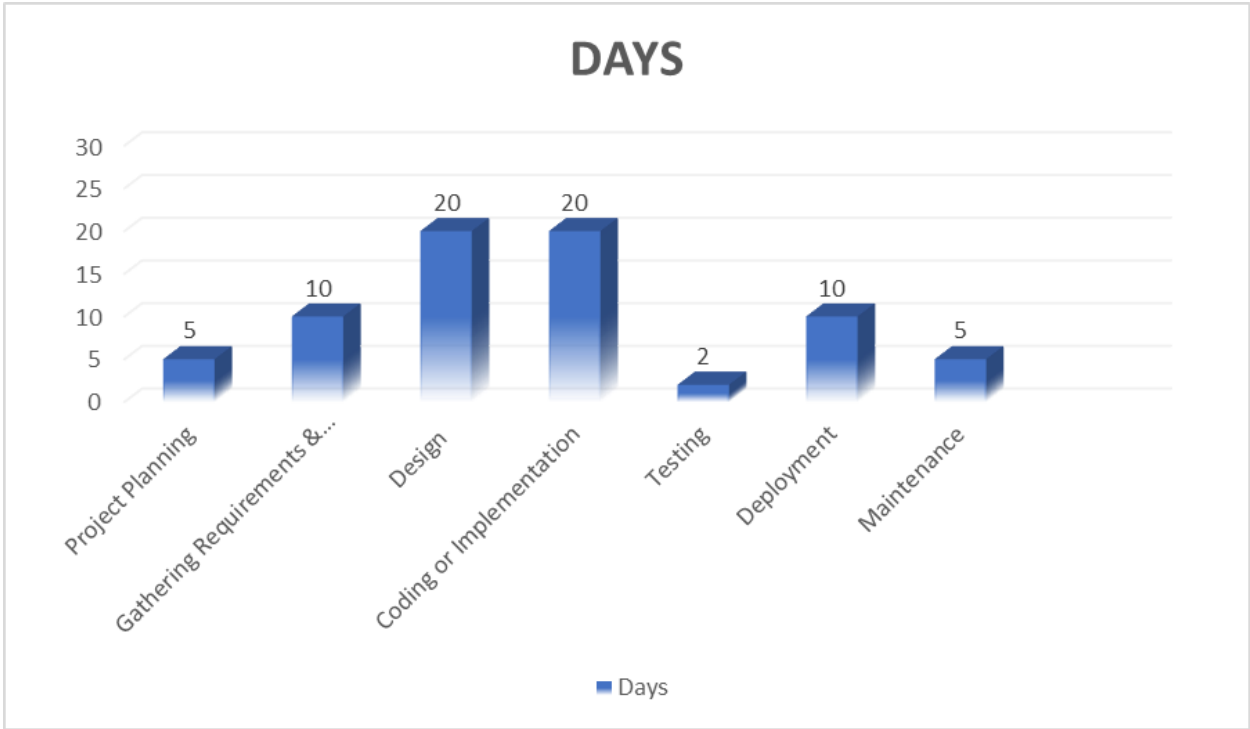
- Trying the admin panel after adding features of add, update and delete for Services, Enquiry & Feedback.

Phase 6: Deployment

- Fixing the bugs and errors that arise during the database management.

Phase 7: Maintenance

- Maintaining the database.






Chapter 4: System Design

4.1 Logical Design

4.1.1 Use Case diagram

Use Case Diagram captures the system's functionality and requirements by using actors and use cases. Use Cases model the services, tasks, function that a system needs to perform. Use cases represent high-level functionalities and how a user will handle the system. Use-cases are the core concepts of Unified Modelling language modeling.

NO	FIGURE	NAME	EXPLANATION
1		Actor	Functionality provided by the system as units that exchange messages between units or actors, is usually expressed using the verb at the beginning of the phrase name use case.
2		Use Case	People, processes, or other systems that interact with information systems that will be created outside the information system that will be created themselves.
3		Association	Communication between actors and use cases that participate in use cases <u>has interaction with</u> actors.

4.1.2 Data flow diagram (DFD)

A data flow diagram (DFD) is the flow of a system or a procedure in terms of inputs and outputs. It also represents the requirement of the system and shows how the current system is implemented.

Levels of DFD

A DFD also has levels that help us organize and categorize the data. Starting with Level 0, which is the most basic, a DFD increases in terms of complexity with the increase in the level number.

Level 0: Context diagram

It shows a larger image of the process. However, it doesn't include all the details. It only contains one process node and its connections with the entities.

Level 1: Process decomposition

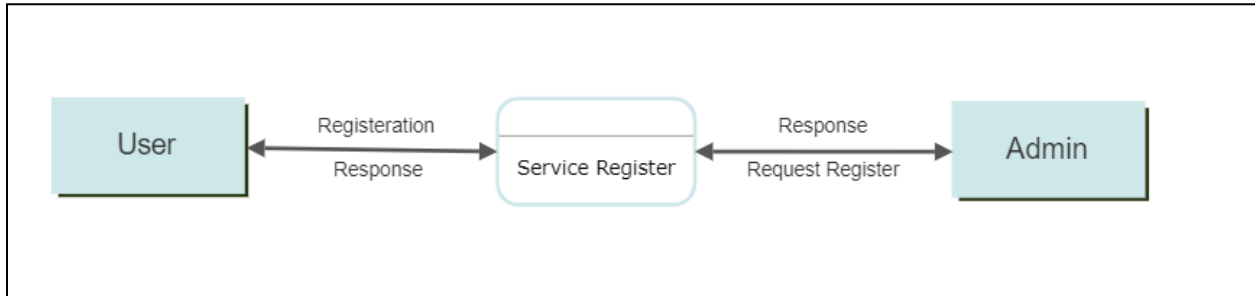
They are like level 1 but this level is more detailed. We break the diagram into smaller steps and explain each process step.

Level 2: Deeper dives

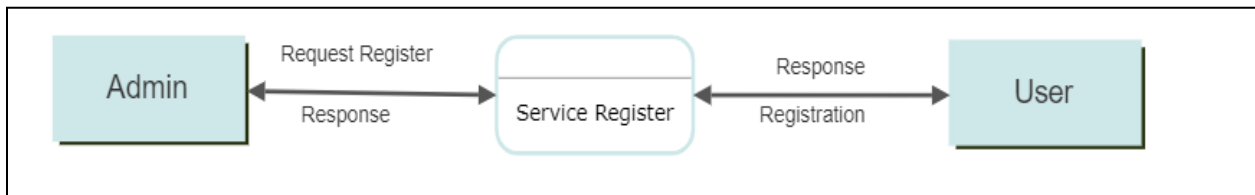
This layer further breaks down each process of level 1. The aim is to provide the detail of every little step. This helps us understand the system better before and while working on it.

DFD Symbols (Gane & Sarson)

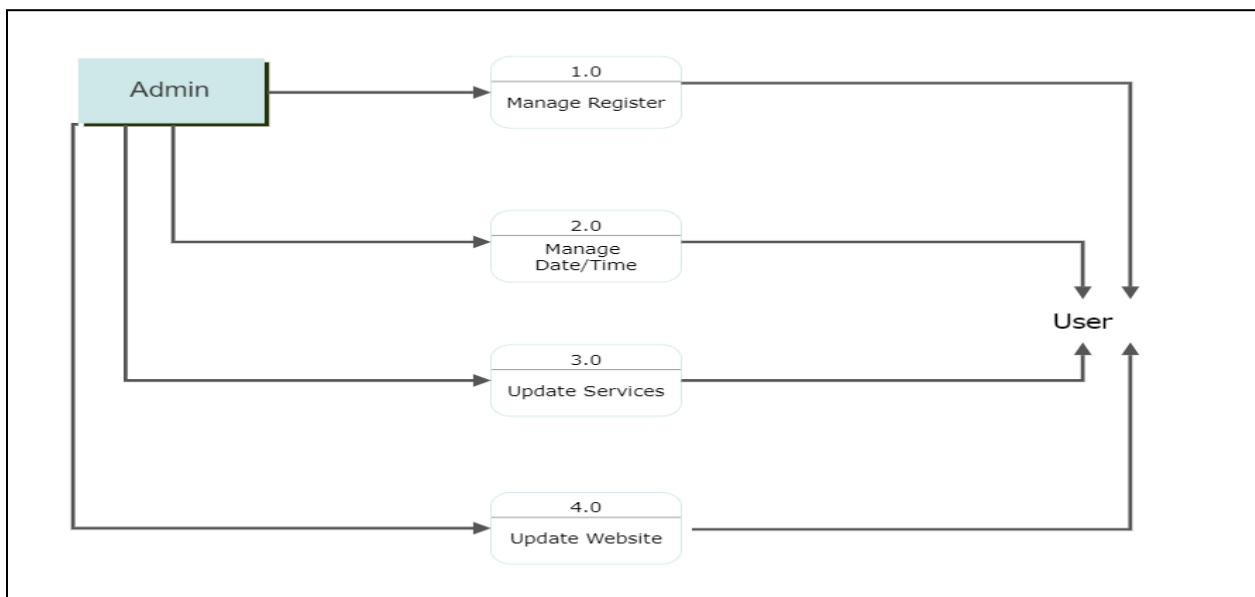




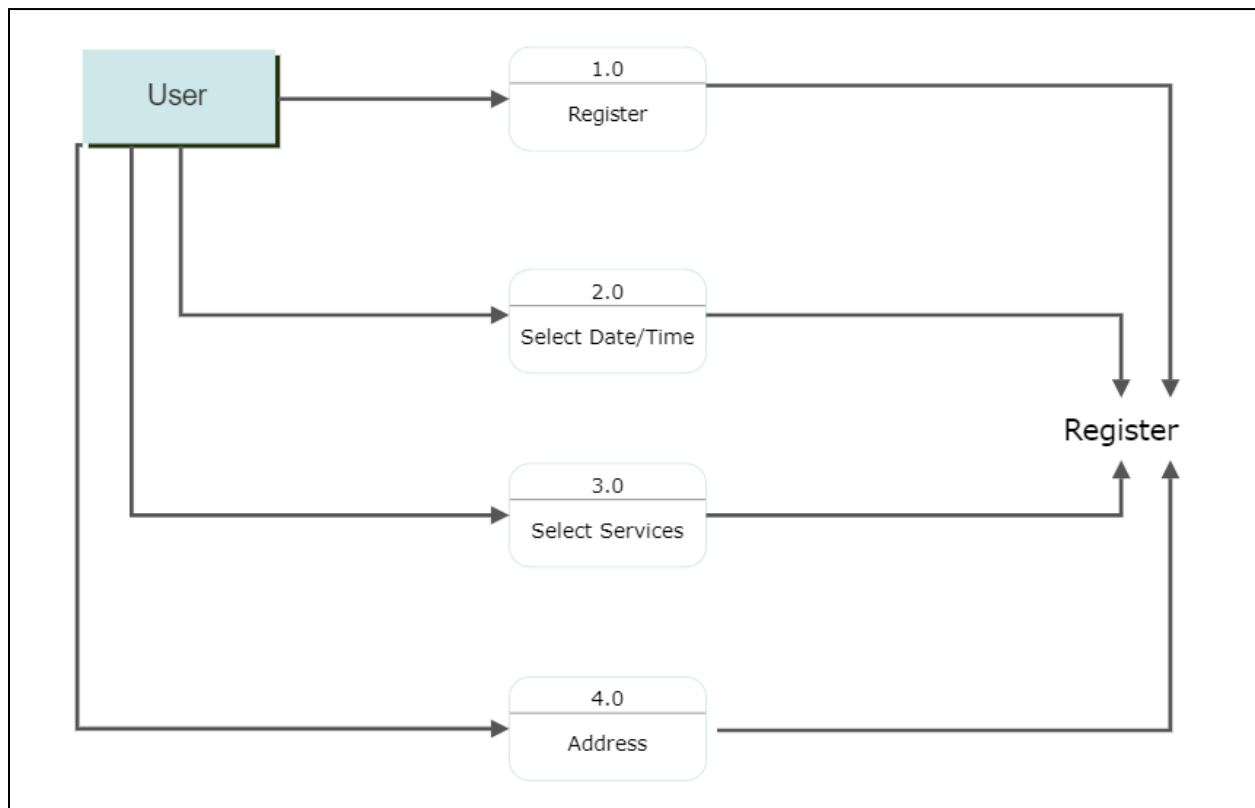
User Side 0-level



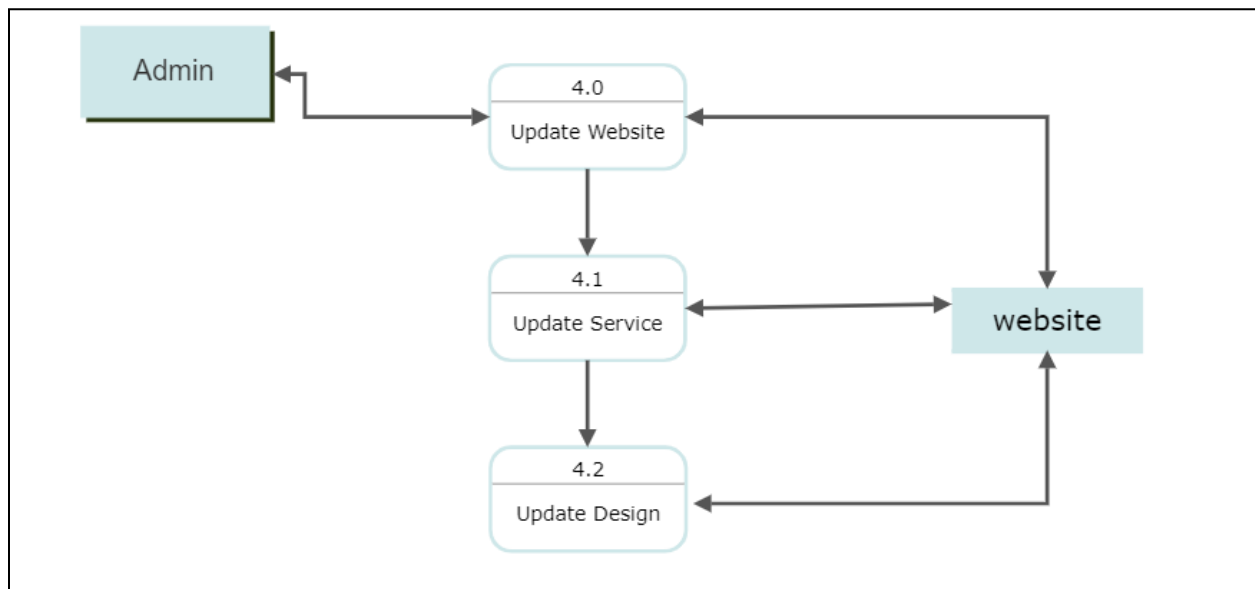
Admin Side 0-level



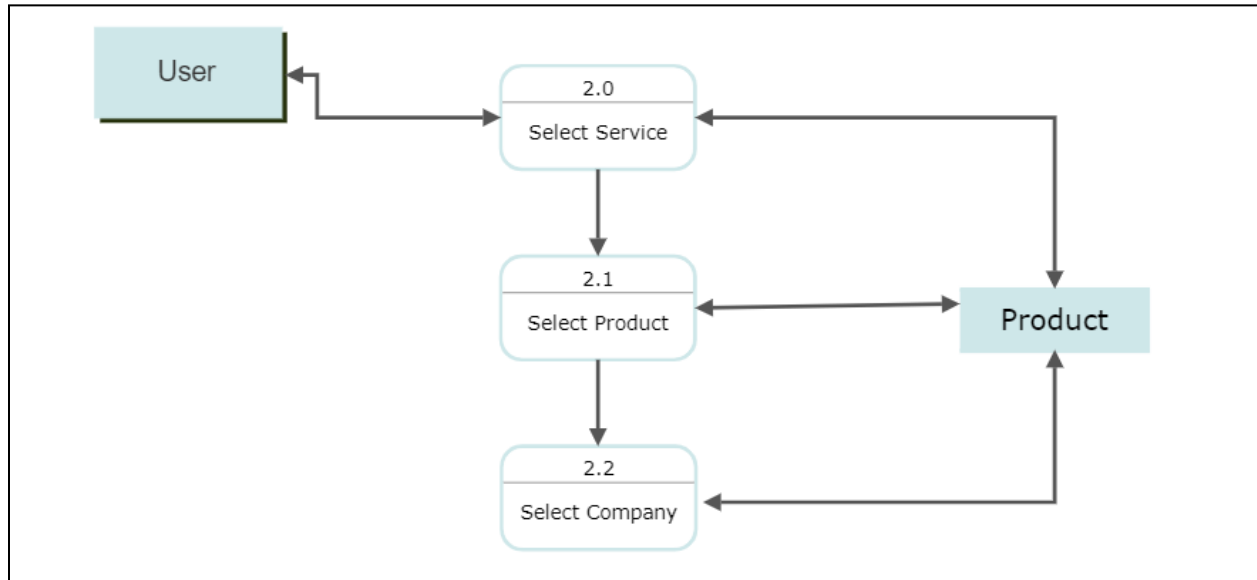
Admin Side 1-level



User Side 1-level



Admin Side 2-level



User Side 2-level

4.1.3 E-R Diagram

An ER diagram shows the relationship among entity sets. An entity set is a group of similar entities and these entities can have attributes. In terms of DBMS, an entity is a table or attribute of a table in database, so by showing relationship among tables and their attributes, ER diagram shows the complete logical structure of a database. Lets have a look at a simple ER diagram to understand this concept.

Rectangle: Represents Entity sets.

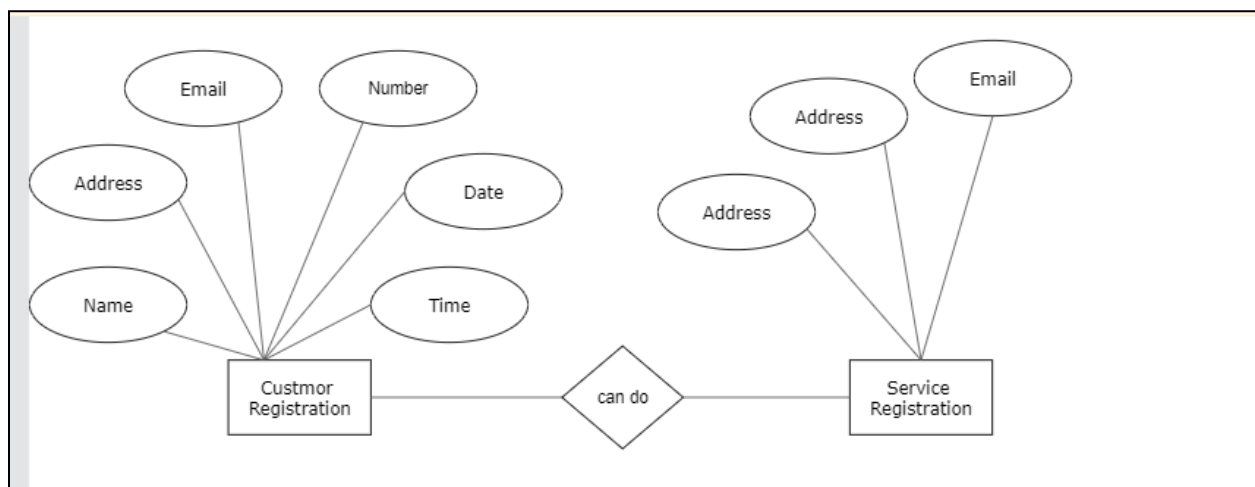
Ellipses: Attributes

Diamonds: Relationship Set

Lines: They link attributes to Entity Sets and Entity sets to Relationship Set

Double Ellipses: Multivalued Attributes

Dashed Ellipses: Derived Attributes



E-R Diagram

4.1.4 Module Design

User Side before Registration

- Home
- User registration
- Services
- About us
- Testimonials
- Feedback

User Side after Registration

- Home
- Service registration
- Services
- About us
- Testimonials
- Feedback

Admin Side after Login

- Home
- User Registration
- Service Registration
- Feedback
- Inquiry
- Add Service
- Logout

4.1.5 Data Dictionary

Server: 127.0.0.1 » Database: sun » Table: admins

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Privileges](#)
[Operations](#)
[Tracking](#)
[Triggers](#)

[Table structure](#)
[Relation view](#)

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/> 2	username	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 3	password	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More

☐ Check all
 With selected:
 [Browse](#)
[Change](#)
[Drop](#)
[Primary](#)
[Unique](#)
[Index](#)
[Spatial](#)
[Fulltext](#)
[Add to central columns](#)

Admin Table

Server: 127.0.0.1 » Database: sun » Table: enquiry

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Privileges](#)
[Operations](#)
[Tracking](#)
[Triggers](#)

[Table structure](#)
[Relation view](#)

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	id	int(20)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/> 2	name	varchar(254)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 3	email	varchar(254)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 4	number	int(19)			No	None			Change Drop More
<input type="checkbox"/> 5	problem	text	utf8mb4_general_ci		No	None			Change Drop More

☐ Check all
 With selected:
 [Browse](#)
[Change](#)
[Drop](#)
[Primary](#)
[Unique](#)
[Index](#)
[Spatial](#)
[Fulltext](#)
[Add to central columns](#)

Enquiry Table

Server: 127.0.0.1 » Database: sun » Table: feedback

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Privileges](#)
[Operations](#)
[Tracking](#)
[Triggers](#)

[Table structure](#)
[Relation view](#)

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	id	int(20)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/> 2	improvement	text	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 3	dislike	text	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 4	likes	text	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 5	suggestion	text	utf8mb4_general_ci		No	None			Change Drop More

☐ Check all
 With selected:
 [Browse](#)
[Change](#)
[Drop](#)
[Primary](#)
[Unique](#)
[Index](#)
[Spatial](#)
[Fulltext](#)
[Add to central columns](#)

Feedback Table

Server: 127.0.0.1 » Database: sun » Table: services

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/> 2	photos	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 3	name	varchar(20)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 4	description	text	utf8mb4_general_ci		No	None			Change Drop More

☐ Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext Add to central columns

Services Table

Server: 127.0.0.1 » Database: sun » Table: service_registered

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	id	int(20)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/> 2	services	varchar(249)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 3	company	varchar(250)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 4	problem	text	utf8mb4_general_ci		No	None			Change Drop More

☐ Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext Add to central columns

Service_reg Table

Server: 127.0.0.1 » Database: sun » Table: users

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/> 2	name	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 3	number	int(20)			No	None			Change Drop More
<input type="checkbox"/> 4	email	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 5	address	text	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 6	date	date			No	None			Change Drop More
<input type="checkbox"/> 7	slot	varchar(250)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 8	time	text	utf8mb4_general_ci		No	None			Change Drop More

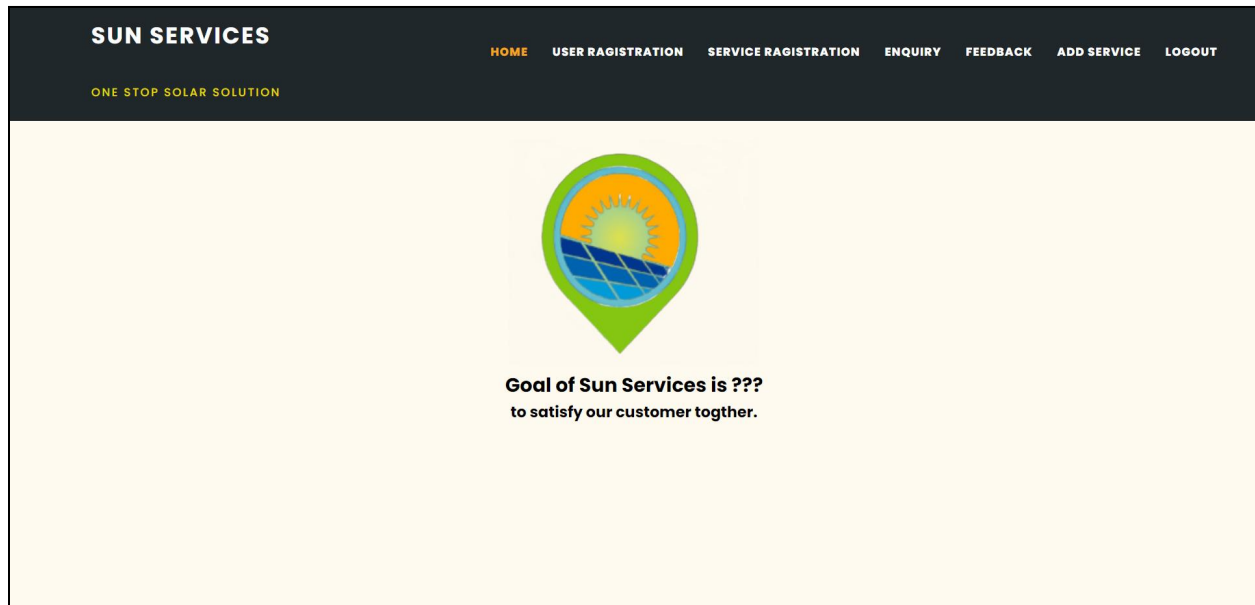
☐ Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext Add to central columns

User Table

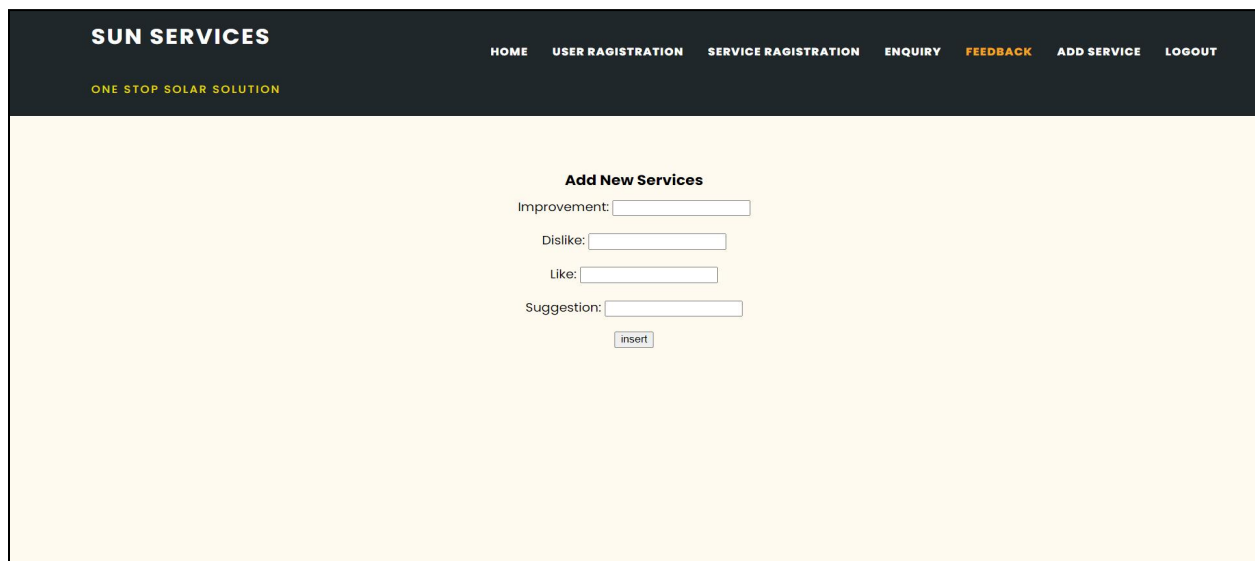
Chapter 5: Screenlayout and Testing

5.1 Screen Layout

5.1.1 Admin Side



Admin Home Page



Feedback add page

SUN SERVICES

HOMEUSER RAGISTRATIONSERVICE RAGISTRATIONENQUIRYFEEDBACKADD SERVICELOGOUT

ONE STOP SOLAR SOLUTION

Add New Services

Name:

Email:

Number:

Quiry:

insert

Enquiry add page

SUN SERVICES

HOMEUSER RAGISTRATIONSERVICE RAGISTRATIONENQUIRYFEEDBACKSERVICELOGOUT

ONE STOP SOLAR SOLUTION

Add New Services

Service:

Company:

Problem:

insert

Service Registration Add Page

SUN SERVICES

HOME USER RAGISTRATION **SERVICE RAGISTRATION** ENQUIRY FEEDBACK ADD SERVICE LOGOUT

ONE STOP SOLAR SOLUTION

Add New Services

Id: 9

Service: install/uninstall

Company: waree

Problem: dajnnkdnkm

update

Service Registration update page

SUN SERVICES

HOME **USER RAGISTRATION** SERVICE RAGISTRATION ENQUIRY FEEDBACK ADD SERVICE LOGOUT

ONE STOP SOLAR SOLUTION

Add New Services

Name:

Number:

Email:

Address:

Date:

Slot:

Time:

insert

User Registration add page

SUN SERVICES
 ONE STOP SOLAR SOLUTION

HOME **USER RAGISTRATION** SERVICE RAGISTRATION ENQUIRY FEEDBACK SERVICE LOGOUT

Add New Services

Id:

Name:

Number:

Email:







































Address:

Date:



Slot :

Time :




User Registration Update Page

Service data				
Id	Image	Name	Description	
20	cooker_02.png	Solar Cooker	It is a Solar Cooker	 
21	rooftop_01.jpeg	Solar Rooftop Panel	Generate Your own Electricity and Enjoy without Any tension.	 
22	heater_01.jpg	Solar Water Heater	Solar power produces no emissions during generation itself	 
23	rooftop_02.jpg	Solar Rooftop Panel	energy produced from sources like the sun and wind that are naturally replenished and do not run out	 
24	trap_02.jpg	Solar Insect Trap	Solar Insect traps are easy to handle and install.	 
25	trap_01.jpg	Solar Insect Trap	It genarets solar energy and use it.	 
26	heater_02.jpeg	Solar Water Heater	Solar water heaters typically last for 10-25 years before they need to be replaced	 
27	cooker_01.jpg	Solar Cooker	It makes Cooking Faster.	 
28	heater_03.jpeg	Solar Water Heater	If you install a solar water heater, your water heating bills should drop 50%-80%	 
29	trap_03.jpg	Solar Insect Trap	Solar Insect traps are easy to handle and install.	 
30	cooker_05.jpg	Solar Cooker	Cookes Food Easily and Faster	 
31	cooker_03.jpg	Solar Cooker	It is a Solar Cooker	 
32	trap_04.jpeg	Solar Insect Trap	Now Farmers are moving towards Solar Insect Trap	 
33	rooftop_03.jpg	Solar Rooftop Panel	reducing their dependence on the grid and conventional fossil fuels	 
34	rooftop_04.jpg	Solar Rooftop Panel	Solar systems are a long-term investment that is modern and sustainable	 
35	cooker_04.jpg	Solar Cooker	A solar Cooker converts the solar energy into heat energy	 
36	heater_04.jpg	Solar Water Heater	Heat Your water by your own	 
37	rooftop_05.jpg	Solar Rooftop Panel	Example for Solar rooftop panel	 
40	img_avatar.png	madhuri maam	It is a Solar Cooker	 

Add Service Show page

SUN SERVICES					
HOME USER RAGISTRATION SERVICE RAGISTRATION ENQUIRY FEEDBACK ADD SERVICE LOGOUT					
ONE STOP SOLAR SOLUTION					
Feedback Submission					
Id	Improvement	Dislike	Like	Suggestion	+
1	bhakti hirpara	capbhakti@gmail.com	it is overall very good . we have a good experince with sun services. overall good service.	it is good but can imrove their service.	
3	xyz	xyz@gmail.com	By consistently delivering high-quality products and services, we aim to establish long-lasting relationships built on trust and loyalty. Our dedicated team is always ready to go the extra mile, striving to make every interaction a positive one. Customer satisfaction is the driving force behind everything we do.		

Feedback Show Page

SUN SERVICES					
HOME USER RAGISTRATION SERVICE RAGISTRATION ENQUIRY FEEDBACK ADD SERVICE LOGOUT					
ONE STOP SOLAR SOLUTION					
Enquiry Submission					
Id	Name	Email	Number	Problem	+
2	abc	capbhakti@gmail.com	5687909	dfgh	
3	abc	5465	0	l23 anything	
4	abc	ssaf@gmail.com	9677868	xyz	

Enquiry Show Page

SUN SERVICES

HOMEUSER RAGISTRATIONSERVICE RAGISTRATIONENQUIRYFEEDBACKADD SERVICELOGOUT

ONE STOP SOLAR SOLUTION

Serviceing Details

Id	Service	Comapny	Problem	+	
9	install/uninstall	waree	dajnnkdnkm		
10	cleaning	waree	vbghfssegy		
11	sun roof	adani	hfuceknk		
12	insecttrap	vikram	install		

Service registration Show Page

SUN SERVICES

HOMEUSER REGISTRATIONSERVICE REGISTRATIONENQUIRYFEEDBACKADD SERVICELOGOUT

ONE STOP SOLAR SOLUTION

Personal Details

Id	Name	Number	Email	Address	Date	Slot	time	+
26	abc	9677868	ssaf@gmail.com	jnxsnka	2023-08-24	morning	11:00	
27	hfb	459837	test2@gmail.com	bhjnkmku	2023-08-21	afternoon	5:00	
28	abc	5687909	ssaf@gmail.com	bhnjmko	2023-08-15	afternoon	3:00	
29	abc	0	ssaf@gmail.com	123 anywhere	2023-08-09	morning	11:00	
30	Jinal	123	j@gmail.com	rajkot	2023-09-12	Morning	5:00	
31	abc	5687909	ssaf@gmail.com	DREAMCITY	2023-08-25	afternoon	5:00	

User Registration Show Page

SUN SERVICES

HOMEUSER RAGISTRATIONSERVICE RAGISTRATIONENQUIRYFEEDBACKADD SERVICELOGOUT

ONE STOP SOLAR SOLUTION

Add New Services

Insert Photo

Choose File

No file chosen

What is Photo About

Description Of Photo

UPLOAD

Add Service Add page

SUN SERVICES

HOMEUSER RAGISTRATIONSERVICE RAGISTRATIONENQUIRYFEEDBACKADD SERVICELOGOUT

ONE STOP SOLAR SOLUTION

Add New Services

Id

20

Insert Photo

Choose File

No file chosen

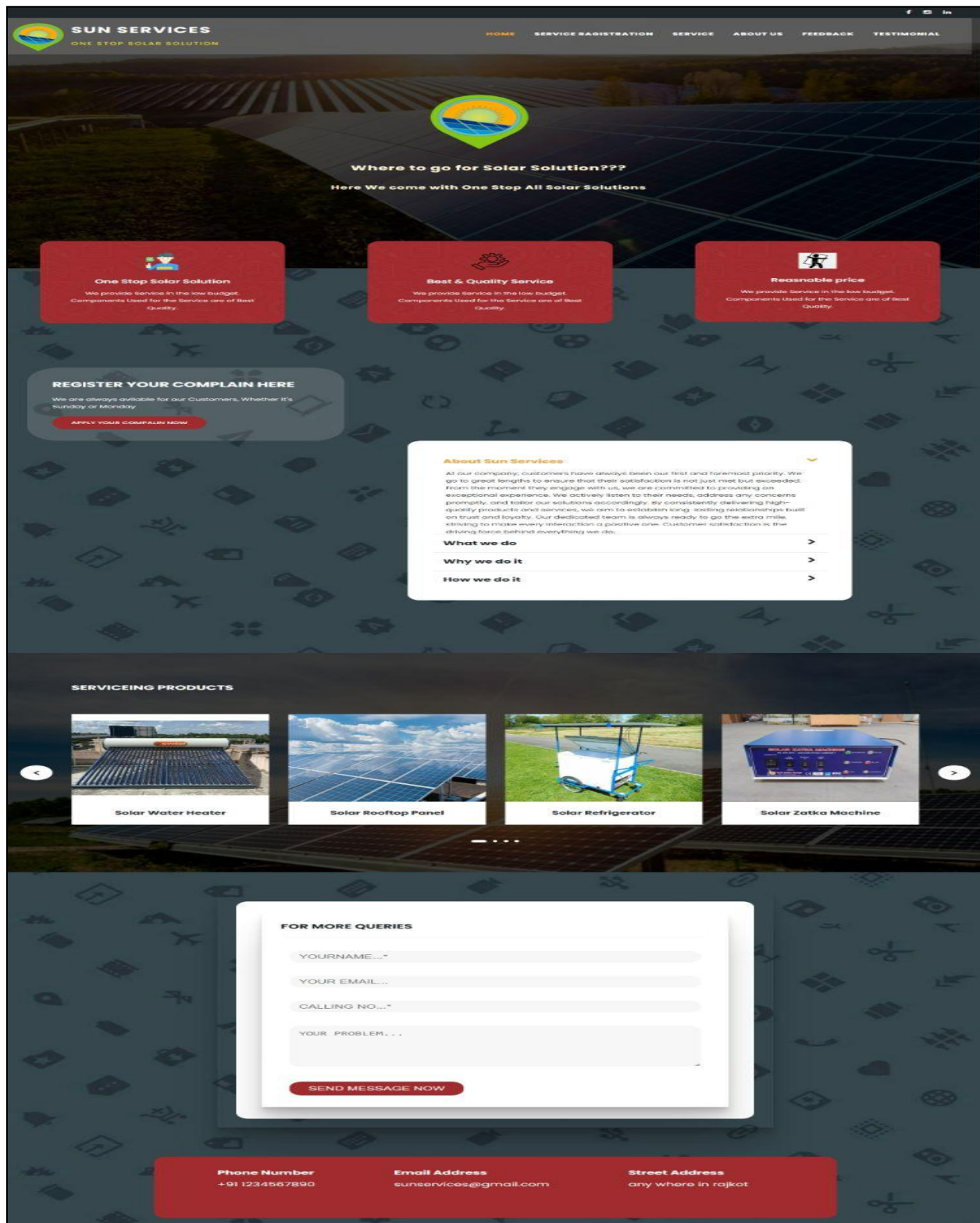
What is Photo AboutSolar Cooker

Description Of Photoit is a Solar Cooker


Update

Add Service Update Page

5.1.2 User Side



Home Page

**SUN SERVICES**
ONE STOP SOLAR SOLUTION

HOME **SERVICE REGISTRATION** SERVICE ABOUT US FEEDBACK TESTIMONIAL

Service Registration

Name

Number

Mail Id

Address

Select Date And time

☐ Morning Slot ☐ Afternoon Slot

☐ 9:00 ☐ 11:00

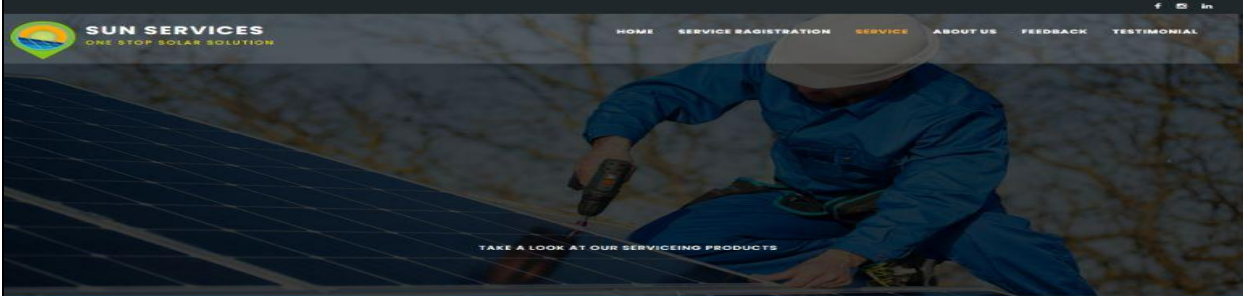
☐ 3:00 ☐ 5:00 ☐ 7:00

Phone Number	Email Address	Street Address
+91 1234567890	sunservices@gmail.com	any where in rajkot


User Registration


SUN SERVICES
 ONE STOP SOLAR SOLUTION


[HOME](#)
[SERVICE REGISTRATION](#)
[SERVICE](#)
[ABOUT US](#)
[FEEDBACK](#)
[TESTIMONIAL](#)


 TAKE A LOOK AT OUR SERVICEING PRODUCTS


ALL SOLAR SERVICES



Solar Cooker
It is a Solar Cooker




Solar Rooftop Panel
Energy produced from sources like the sun and wind that are naturally replenished and do not run out.



Solar Cooker
It is a solar cooking heater.



Solar Insect Trap
Solar insect traps are easy to handle and install.



Solar Rooftop Panel
Reducing their dependence on the grid and conventional fossil fuels



Solar Water Heater
Heat your water by your own.




Solar Cooker
It is a Solar Cooker



Solar Rooftop Panel
Generate your own electricity and enjoy without any tension.



Solar Insect Trap
Solar insect traps are easy to handle and install.




Solar Water Heater
If you install a solar water heater, your water heating bills would drop 60% - 80%.



GoSun Sport Solar Cooker
It is a Solar Cooker




Solar Rooftop Panel
Solar systems are a long-term investment that is modern and sustainable.



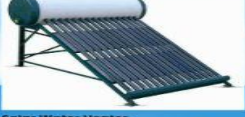
Solar Rooftop Panel
Example for solar rooftop panel



Solar Water Heater
Solar power produces no emissions during generation itself.



Solar Insect Trap
It generate solar energy and use it.




Solar Water Heater
Solar water heaters typically last for 10-20 years before they need to be replaced.



Solar Cooker
Cookes food easily and faster.



Solar Insect Trap
Now farmers are moving towards solar insect trap.

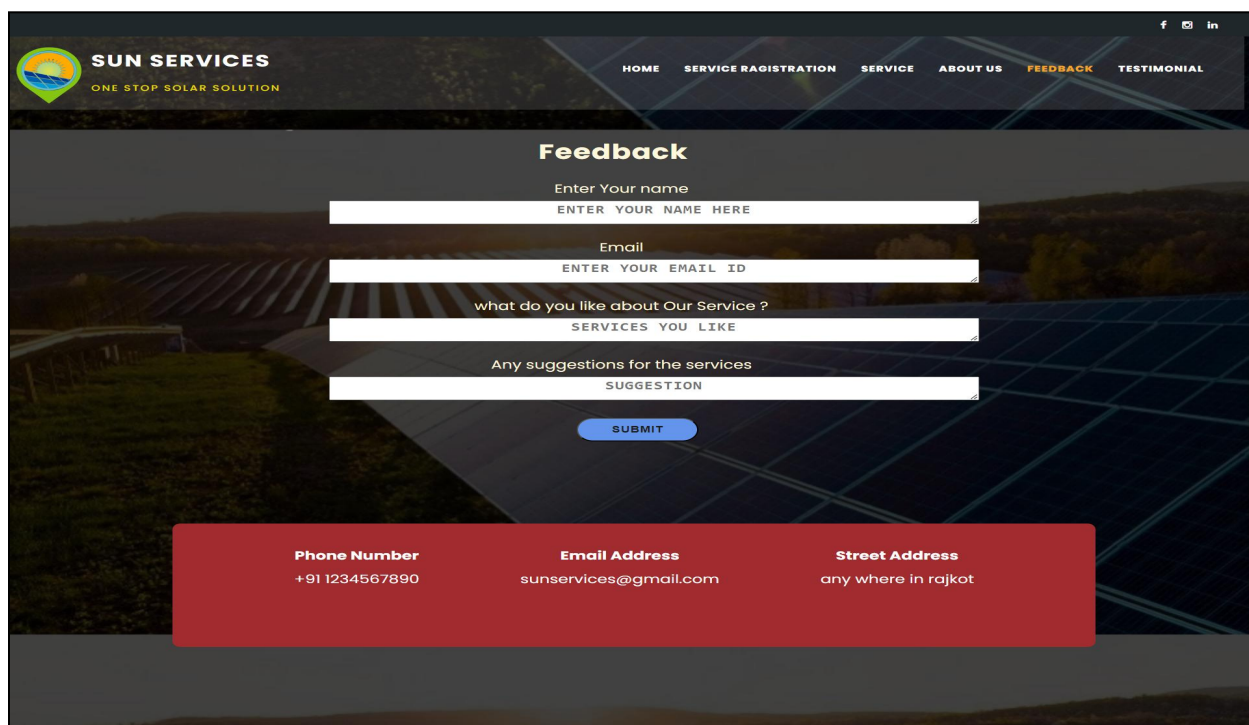


Solar Cooker
A solar Cooker converts the solar energy into heat energy.

Phone Number
 +91 1234567890

Email Address
 sunservices@gmail.com

Street Address
 any where in rajkot



The screenshot shows the 'Feedback' page of the Sun Services website. The header includes the Sun Services logo and navigation links. The main content area contains a feedback form with the following fields: 'Enter Your name' (placeholder: ENTER YOUR NAME HERE), 'Email' (placeholder: ENTER YOUR EMAIL ID), 'what do you like about Our Service ?' (placeholder: SERVICES YOU LIKE), and 'Any suggestions for the services' (placeholder: SUGGESTION). A blue 'SUBMIT' button is located below the form. At the bottom, a red box displays contact information: Phone Number (+91 1234567890), Email Address (sunservices@gmail.com), and Street Address (any where in rajkot).

SUN SERVICES
ONE STOP SOLAR SOLUTION

HOME SERVICE REGISTRATION SERVICE ABOUT US **FEEDBACK** TESTIMONIAL

Feedback

Enter Your name
ENTER YOUR NAME HERE

Email
ENTER YOUR EMAIL ID

what do you like about Our Service ?
SERVICES YOU LIKE

Any suggestions for the services
SUGGESTION

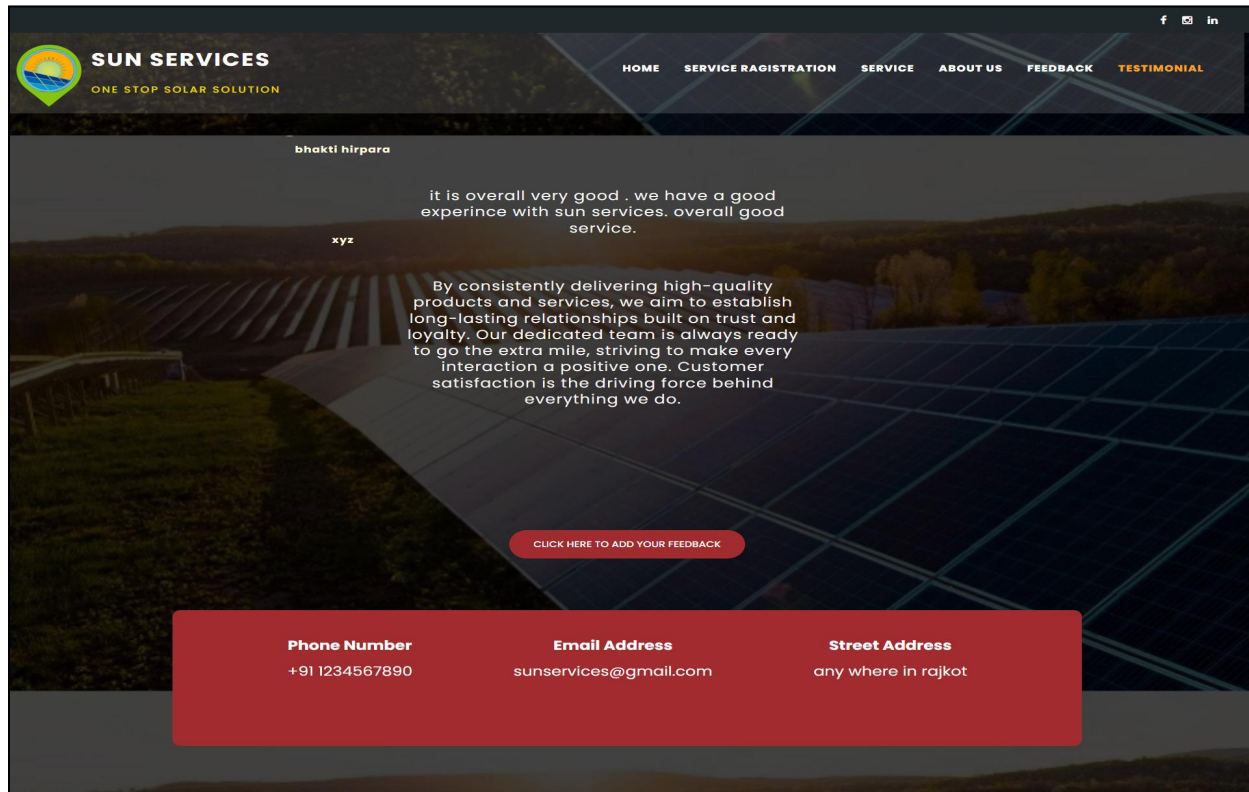
SUBMIT

Phone Number
+91 1234567890

Email Address
sunservices@gmail.com

Street Address
any where in rajkot

Feedback Page



The screenshot shows the 'Testimonial' page of the Sun Services website. The header is identical to the feedback page. The main content area features a testimonial from 'bhakti hirpara' (xyz) stating: 'it is overall very good . we have a good experince with sun services. overall good service.' Below the testimonial is a paragraph about the company's commitment to high-quality products and services. A red button labeled 'CLICK HERE TO ADD YOUR FEEDBACK' is positioned below the text. The same red contact information box is at the bottom.

SUN SERVICES
ONE STOP SOLAR SOLUTION

HOME SERVICE REGISTRATION SERVICE ABOUT US **FEEDBACK** **TESTIMONIAL**

bhakti hirpara
xyz

it is overall very good . we have a good experince with sun services. overall good service.

By consistently delivering high-quality products and services, we aim to establish long-lasting relationships built on trust and loyalty. Our dedicated team is always ready to go the extra mile, striving to make every interaction a positive one. Customer satisfaction is the driving force behind everything we do.

CLICK HERE TO ADD YOUR FEEDBACK

Phone Number
+91 1234567890

Email Address
sunservices@gmail.com

Street Address
any where in rajkot

Testimonial Page

5.2 Testing Approach

Sr. No.	Test Case	Expected Result	Passed / Failed
1	Type the URL of the Home page in the address bar of the browser and try to access the application.	After Pressing 'Enter' One should Directly redirect to the Home Page.	Passed
2	Check the title of the internet explorer window	The name should be meaningful and should reflect the action done in window	Passed
3	Check the size of buttons in all windows	All the buttons should be of same size	Failed
4	Check the size of pop up screen	All the pop up screens should be of appropriate size according to the action it is doing	Passed
5	Check the placement of all the controls	All controls should be properly placed	Passed
6	Check the color in all window	The color should be uniform	Passed
7	Check the font and size of font in different pages	The font and size of font should be same	Passed

8	Click on 'Refresh' button on the browser	The page should get refreshed	Passed
9	Click on 'Back' button on the browser (other than Home Page)	It should go back to the previous page	Passed
10	Click on 'Forward' button on the browser	It should go to the next page (only for those pages for which are browsed already)	Passed
11	While doing any of the functions with regards to application click on browser 'Stop' button	It should stop that process	Failed
12	In the site, check if there any link appears, if there is any, right click on that link and select 'Open in a New Window'	The corresponding link should be displayed in new window	Passed
13	In the site check if there any link appears, if there is any, right click on that link and select 'Open Link'	The corresponding page for the link should be displayed.	Passed
15	Check the functionalities in all the browsers like different versions of IE, different versions of Netscape etc...	In all the versions of the browsers the functionalities, fonts and images should be same.	Failed
16	Click on the link provided for logout	It should take to the login screen	Passed

17	After logging out click on back button in the browser	It should not go to the previous page	Failed
18	Click on the link provided for logout	It should take to the login screen	Passed
19	After logging out click on back button in the browser	It should not go to the previous page	Failed
20	Check session is destroyed after logout, Try direct URL	It should not allow you to move directly without login to application. And login page should be displayed	Passed

Chapter 6: System Security and Measures

Securing your website, "Sun Services," is paramount to safeguard your data and user trust. Start by maintaining the latest software updates for your web server, content management system (CMS), and plugins. Outdated software is a prime target for cyberattacks. Implement robust authentication methods, like multi-factor authentication (MFA), to ensure that only authorized individuals can access your site's backend.

Additionally, prioritize regular backups, secure file uploads, and effective error handling mechanisms to prevent data loss and breaches. Set security headers in your web server configuration and employ input validation to thwart common attacks like SQL injection and cross-site scripting (XSS). Log critical events and set up monitoring alerts to identify and respond swiftly to security incidents.

Develop a comprehensive incident response plan and train your staff on security best practices. Ensure that third-party services and APIs integrated into your website also adhere to security standards. Conduct regular security testing and maintain compliance with relevant data privacy regulations. Finally, establish a solid backup and disaster recovery plan to ensure business continuity in case of data loss or system failures. Remember that cybersecurity requires ongoing attention and adaptation to evolving threats and technologies. Consulting with cybersecurity experts can provide valuable insights into enhancing your website's security posture.

Chapter 7: Future Scope and Enhancement

The future scope and enhancements for your Servicing website, Sun Services, hold immense potential to keep your platform competitive and user-centric. To begin, consider integrating cutting-edge technologies such as artificial intelligence (AI) and machine learning to provide personalized investment recommendations. These advanced tools can analyze market trends and user preferences, ensuring that your users receive tailored investment strategies that align with their financial goals.

To foster community and provide valuable insights to investors, consider adding social networking features. Allow users to follow and engage with expert investors or financial influencers, creating a sense of belonging and facilitating knowledge sharing within your platform.

Moreover, advanced data analytics, robo-advisors, blockchain technology for transparency, and a robust educational section can significantly enhance the user experience and build trust. Expanding globally, staying compliant with regulations, partnering with key players in the financial industry, and prioritizing security remain fundamental strategies for Sun Services's future success.

Always keep an ear to the ground, gathering user feedback and actively seeking to improve your platform. By staying agile, responsive, and in tune with industry trends and user preferences, Sun Services can continue to evolve as a leading destination for investment enthusiasts.

Chapter 8: Conclusion and Limitation

1. User-Centric Approach: Sun Services's commitment to a user-centric approach has been instrumental in creating a platform that empowers investors of all levels. The incorporation of AI-driven investment tools, cryptocurrency integration, and a dedicated mobile app underscores our dedication to meeting users' evolving needs.

2. Innovation and Technology: Staying at the forefront of technological advancements, we have leveraged AI, blockchain, and data analytics to provide cutting-edge solutions. These enhancements not only enhance user experiences but also bolster security and transparency.

3. Global Expansion: Expanding our services to international markets has allowed us to offer diverse investment opportunities while maintaining a strong emphasis on regulatory compliance. This global approach ensures that Sun Services remains a versatile platform for investors worldwide.

4. Community and Education: The introduction of social networking features, educational content, and gamification elements has fostered a vibrant and engaged user community. Sun Services not only facilitates investments but also nurtures learning and networking opportunities for investors.

Limitations:(chat gpt)

1. Market Volatility: Despite our best efforts, Sun Services cannot eliminate the inherent risks associated with servicing sector .
2. Regulatory Challenges: Regulatory landscapes can be complex and ever-changing, especially in the financial sector. Compliance with various regulations across different regions can be a significant challenge, and users must stay informed about the legal implications of their investments.
3. Technical Risks: As a technology-based platform, Sun Services is susceptible to technical glitches, cyberattacks, and downtime.
4. Investment Outcomes: While our AI tools and recommendations aim to optimize servicing strategies, it's crucial to remember that no prediction is foolproof. Users are ultimately responsible for their Service decisions and should exercise due diligence.
5. User Discretion: Sun Services provides information, tools, and resources, but it is not a substitute for professional Solar Service Users should consult with their Solar Company respectively and conduct their research before registering for Service.

Chapter 9: Bibliography

I have used this kind of references for making this document and project:

Websites References:

<https://www.adanisolar.com/>

<https://www.solarsquare.in/>

<https://www.tatapowersolar.com/>

Website Template :

<https://www.free-css.com/>

<https://templatemo.com/>

<https://htmlcodex.com/template/>

<https://colorlib.com/wp/>

Front-end Design :

<https://getbootstrap.com/>

<https://www.w3schools.com/>

<https://getbootstrap.com/>

PHP code:

<https://www.geeksforgeeks.org/>

<https://www.w3schools.com/>

<https://www.phptutorial.net/php-pdo/>

Ajax & jQuery:

<https://howtodoinjava.com/jquery/jquery-ajax-tutorial/>

Thank You