

WEB REPORT COSC 642

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INTRODUCTION OF THE APP

This App is specially designed for owners to select solar water heater suppliers. The supplier will submit information about their brand and products, and the owner provides project information and can view information about all suppliers and products. This allows both parties to provide their information to the platform, thus allowing owners to obtain more accurate and detailed product information, allowing them to choose solar suppliers more efficiently.

LIVE APP LINK

https://yundb.knack.com/solar-water-heater-suppliers#home

Date: December 3, 2021

Problem Statement

Background



When choosing a solar water heater supplier, owners usually communicate with different suppliers, who will introduce their brand and product information to the owner. The biggest headache for homeowners is organizing and analyzing this information, and not having enough energy and time to deal with the overwhelming amount of information coming in at the same time.

Without Web-based Database App

- Chaotic Information **Management**
- Time Wasting
- Missing Cost Effective

"I just want to focus on Brands, I don't have more energy or time to think about it."

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Web-based Database App

- Get the required information from suppliers in an efficient and detailed way.
- Efficient management of suppliers' personal information and product information
- Easy comparison and selection between different products
- Easier negotiation and management of suppliers' and owners' time
- Easier to focus on the cost effectiveness of products

Database Structure and Development

Date: December 3, 2021

Database Structure Cost Details Ouality Details Froduct A Cost Details Service Details Guality Details One to Many Cost Details Ouality Details One to Many Supplier 1 Owner Product B Product B Product B Product B Product B Owner Product B One to Many Product---Each Details One to One



Objects Details

 First of all, the owner submits the project-related information to the platform through the App, and the supplier can view the information of the project by logging into their account, and then submit their brand and product information to the platform, which is convenient for the owner to view the management directly.

atform, which is co Cost Details Unit Price of Tube Number of Tube Size of Tank Unit Price of Tank Unit Price of Tank Number of Tank Size of Pump Unit Price of Pump Number of Pump Cost of Tube/Tank/Pump Installation Fee Shipment Fee	Project Information Project Name Project Address Function of the Building Contacts Name Contacts Phone Contacts Email Contacts Address Contact Time Drawings	Quality Insulation Time(Min Heat collinabsorptic Wind resist performa Welded with Steel Function	Details n uutes) ection and on istance ince vith Agle of Low uure Defrost	Service Details Customer Reviews Service Attitude Guarantee Period Number of Repair Sites Cooperative Partners	Time Details Completion Date Shipper Shipment Date Delivery Date Installer Installment Date Total Time Consumption
Product ID Product Name Total Cost Completion Date	duct Durable Time(Yea Guarantee Period Highlights Image		SupplieSupplieCountrySupplie	r Brand Name • Descri y • Conta r Logo • Conta r Brand Logo • Expec	opliers ption cts Name ct Method ted Consultation Date

For Owners Website Pages

- For Owner Project Information Login Project Information Add Project Information Edit Project Information Supplier Account Manage Supplier Management Suppliers Login Details Edit Suppliers Login Service Login Service Evaluation Add Service Detail Edit Service Detail Owner Account Login Owners Account Managem Edit Owners
- Owners must first create their account, and the account requires the approval of the App manager to log in. This is because owners don't want anyone to be able to create an owner's account and view private information about all suppliers and products.
 - should submit project information by Add Project Information button. After the supplier submits their information, the owner can manage the supplier's information and account, evaluate the service of the product and also manage the owner's account.

After Login, owner

For Suppliers Website Pages

- Project Information Login
 Project Information
- → B Supplier→ B Supplier
 - Add Supplier
 - Edit Supplier
- Products Account
- ▼ **■** Products
 - Add Product
 - Edit Product
 - Product Details
- Cost information
- Cost Information
 - Add Cost
 - Cost Details
 Edit Cost
- Time Information
- ▼ Time Information
- Add Time Detail
- Edit Time Detail
- 🕆 🛍 Quality Information
- Quality Information
- Add Quality DetailEdit Quality Detail

The supplier first has to create a supplier account to log in, and in the Project Information page you can see the project related information submitted by the owner in advance.

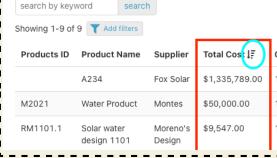
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Suppliers will only see their own information after logging in, which is a private account for them. Suppliers can submit, modify and view their brand and product specific information through Supplier, Product, Cost, Time, Quality buttons, which the owner will see in the owner pages.

What is more?

On each item column, I designed buttons for ranking and filtering, mainly for owners to view and make decisions more easily and quickly.

Products Information



Completion Date	Durable Time(Years)	Guarantee Period(Years)	Highlights
11/19/2021	25.0	25.0	
11/19/2021	10.0	6.0	
11/29/2021	20.0	4.0	Best product

Practicality

Practicality

- This database application also can be adjust and use in other product selection. It will help owners save time, energy and money. So owners can focus more on the important part in project.
- This App actually provides a platform for information interaction and can add other users such as contractors and designers, project managers to make this App more powerful.