

11/21/2024

# Survey Dashboard For VMH Group

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## **ABSTRACT**

The VMH Group Database Dashboard is a web-based platform designed to facilitate efficient project management by connecting clients, users, and administrators in a streamlined workflow. The primary objective of the system is to provide a centralized solution for project assignment, user management, and status tracking. Built using MySQL for data storage and PHP for backend operations, the dashboard supports real-time updates, user slot management, and secure data handling. Key functionalities include project assignment by admin, status tracking with dynamic updates, and quota fulfilment notifications, providing transparency and optimizing resource utilization.

## **INTRODUCTION**

The VMH Group Database Dashboard is an interactive web application that enables effective management of multiple clients and users within the VMH Group platform. The dashboard serves as a central system where clients can provide projects, users can be assigned to complete these projects, and an admin oversees the entire workflow. This system aims to provide efficient coordination of resources and transparency in project statuses.

The role of clients, users, and admin in the system includes clients providing projects, users working on assigned projects, and the admin managing user assignments and ensuring smooth project progress.

## **SYSTEM REQUIREMENTS**

- **Hardware Requirements:**

Hosting server specifications for the web application, client devices (desktop, tablet, mobile).

- **Software Requirements:**

PHP version 7.4 or above.

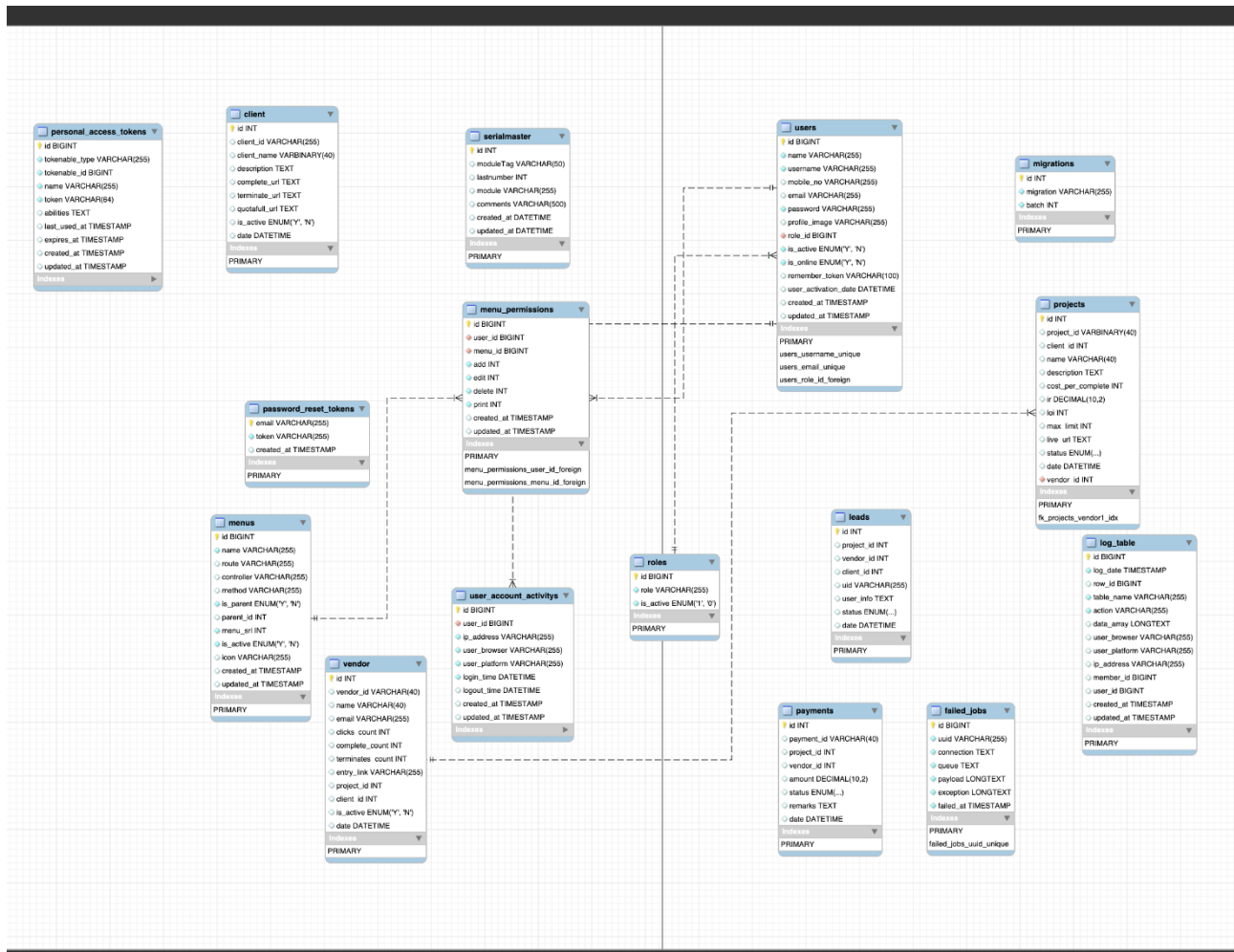
MySQL version 5.7 or above.

Apache or Nginx web server.

Modern web browsers (Chrome, Firefox, Edge).

# DATABASE DESIGN

**ER Diagram:** Illustrates entities such as Clients, Projects, Users, and their relationships.



## Schema Design:

The database schema consists of several key tables to manage the project and user interactions efficiently:

### 1. Clients Table

Purpose: Stores client details.

Attributes:

id (Primary Key): Unique identifier for each client.

client\_id: Unique client identifier.

client\_name: Client's name.

description: Description of the client.

complete\_url, terminate\_url, quotafull\_url: URLs for respective project statuses.

is\_active: Indicates if the client is active (Y or N).

date: Record creation date.

## 2. Projects Table

Purpose: Manages project-related data.

Attributes:

id (Primary Key): Unique identifier for each project.

project\_id: Unique project identifier.

client\_id (Foreign Key): Links the project to a client.

name: Project name.

description: Project description.

cost\_per\_complete: Cost associated with project completion.

status: Indicates the project status (Live, Pause).

date: Record creation date.

## 3. Users Table

Purpose: Maintains user information.

Attributes:

id (Primary Key): Unique identifier for each user.

name: User's full name.

username: Unique username for login.

email: User's email address.

role\_id (Foreign Key): Links to the roles table.

is\_active: Indicates if the user is active (Y or N).

created\_at, updated\_at: Timestamps for record tracking.

## 4. Assignments Table

Purpose: Tracks user assignments to projects.

Attributes:

id (Primary Key): Unique identifier for each assignment.

project\_id (Foreign Key): Links to the projects table.

user\_id (Foreign Key): Links to the users table.

date: Assignment date.

## 5. Roles Table

Purpose: Defines roles for system users.

Attributes:

id (Primary Key): Unique identifier for each role.

role: Role name.

is\_active: Indicates if the role is active (1 or 0).

## 6. Leads Table

Purpose: Stores project leads.

Attributes:

id (Primary Key): Unique identifier for each lead.

project\_id, client\_id (Foreign Keys): Links to respective tables.

status: Indicates lead status (Pending, Complete, etc.).

date: Record creation date.

## 7. Menu Permissions Table

Purpose: Manages user permissions for system menus.

Attributes:

id (Primary Key): Unique identifier.

user\_id, menu\_id (Foreign Keys): Links to respective tables.

add, edit, delete, print: Permissions flags (0 or 1).

## 8. Logs Table

Purpose: Records system actions for auditing.

Attributes:

id (Primary Key): Unique log entry identifier.

action: Description of the action performed.

user\_id: User who performed the action.

created\_at: Action timestamp.



## **FEATURES AND FUNCTIONALITIES**

- **Real-Time Status Tracking:** Projects have three primary statuses: Pending, Complete, and Terminate. Additionally, the "Quota Fulfilled" status is automatically updated when the maximum number of users is assigned to a project, allowing admins and clients to see resource availability at a glance.
- **Project Assignment by Admin:** Admin can assign users to projects, managing user availability and ensuring that project requirements are met. Admins have full control over the allocation of users, which allows them to ensure that no project is under- or over-staffed, improving resource management.
- **User Slot Management:** The system ensures that projects do not exceed the specified user limit. Once a project reaches its assigned user capacity, it updates to "Quota Fulfilled" status, preventing further user assignments.
- **Customizable Reporting:** The dashboard allows clients and admins to generate tailored reports on project status, user assignments, and completion rates, making it easier to monitor progress and make informed decisions.
- **Multi-Device Compatibility:** The dashboard is accessible on desktop, tablet, and mobile devices, ensuring flexibility for users to manage and view project information from any device.
- **Data Visualization:** The platform incorporates charts, graphs, and other visualization tools to present project statuses, resource utilization, and completion rates clearly, enabling better understanding and insights for decision-making.
- **User-Friendly Interface:** Screenshots of the dashboard interface provide a visual representation of the client, user, and admin views, showcasing an intuitive and responsive design that improves overall usability.
- **Status Tracking:** Projects have three primary statuses: Pending, Complete, and Terminate. The "Quota Fulfilled" status is automatically updated when the maximum number of users is assigned to a project.
- **User Slot Management:** Ensures that projects do not exceed the specified user limit.
- **Screenshots of the Dashboard Interface:** Visual representation of client, user, and admin views within the dashboard shown as below.

**a. The Admin Dashboard view & also the Home Page.**



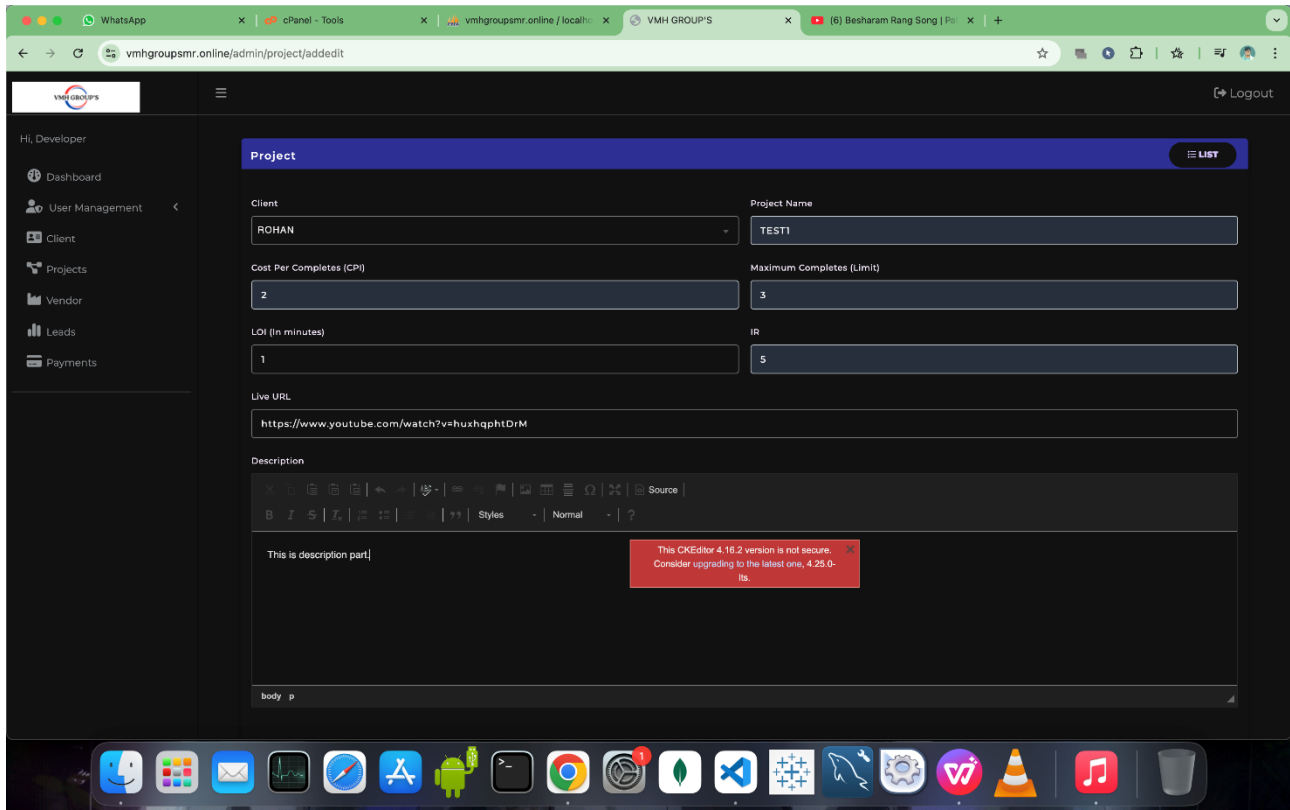
**b. Visual Representation of Client Page.**

<https://vmhgroupsmr.onlinedashboard>

# IMPLEMENTATION

## Assigning New Project & Vendor

Step1: Add details of new projects.

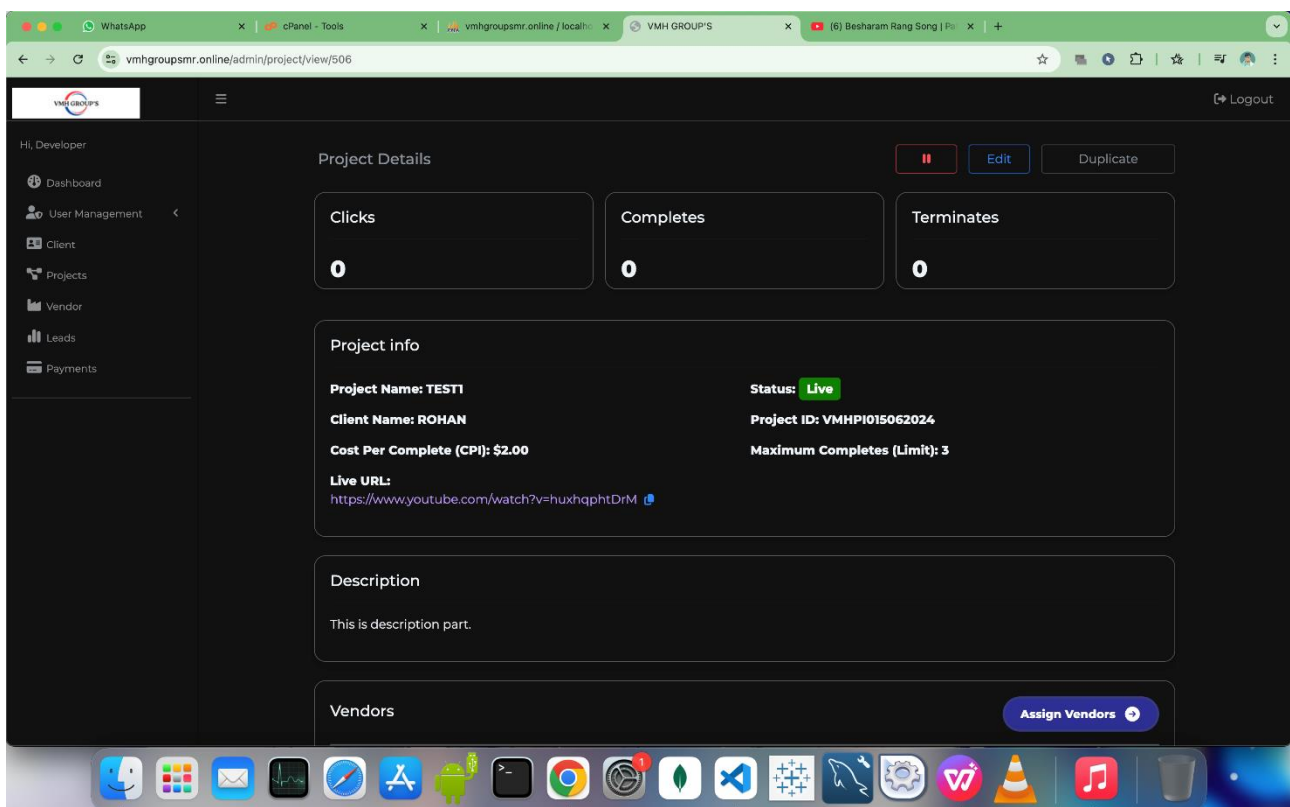


The screenshot shows the 'Project' creation form in the VMH GROUP'S application. The form is titled 'Project' and has a 'LIST' button. It contains several input fields for project details:

- Client:** A dropdown menu with 'ROHAN' selected.
- Project Name:** A text input field with 'TEST1' entered.
- Cost Per Completes (CPI):** A text input field with '2' entered.
- Maximum Completes (Limit):** A text input field with '3' entered.
- LOI (in minutes):** A text input field with '1' entered.
- IR:** A text input field with '5' entered.
- Live URL:** A text input field with 'https://www.youtube.com/watch?v=huxhqptDrM' entered.
- Description:** A rich text editor with the text 'This is description part' and a red warning message: 'This CKEditor 4.16.2 version is not secure. Consider upgrading to the latest one, 4.25.0-11%.' Below the editor, the HTML structure 'body p' is visible.

The left sidebar shows the navigation menu with options: Dashboard, User Management, Client, Projects, Vendor, Leads, and Payments. The top bar shows the user is logged in as 'Hi, Developer' and has a 'Logout' button.

Step2: Project details successfully assigned.

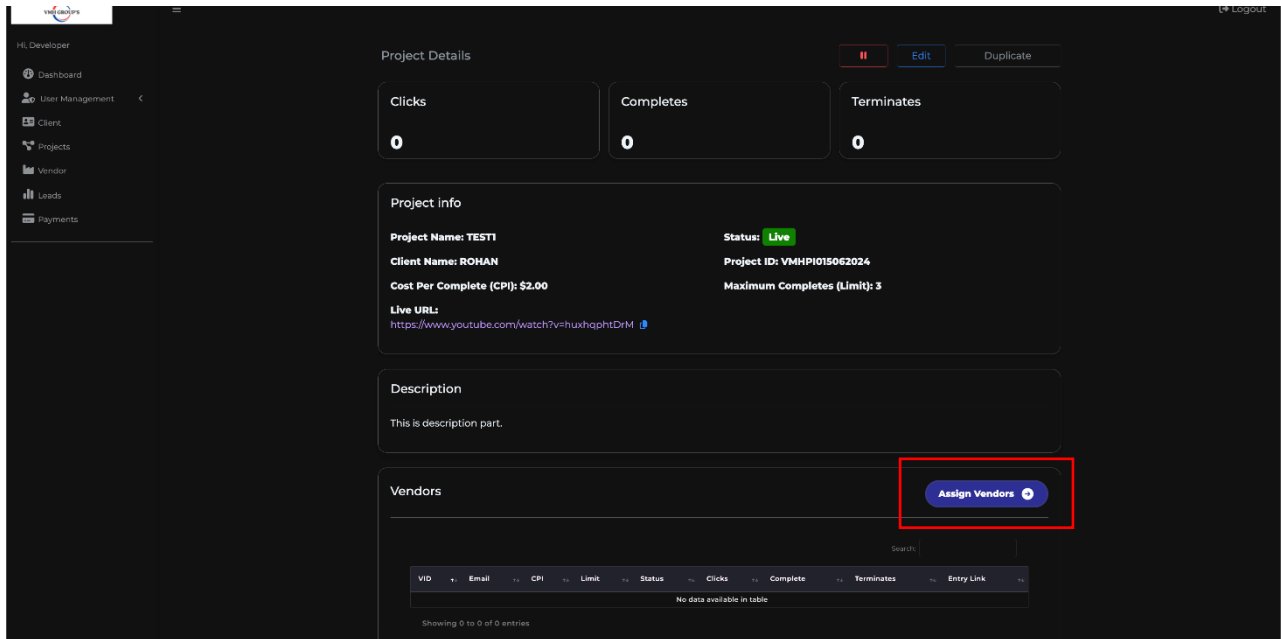


The screenshot shows the 'Project Details' view for the project 'TEST1' in the VMH GROUP'S application. The page has a 'Project Details' title and buttons for 'Edit' and 'Duplicate'. It displays the following information:

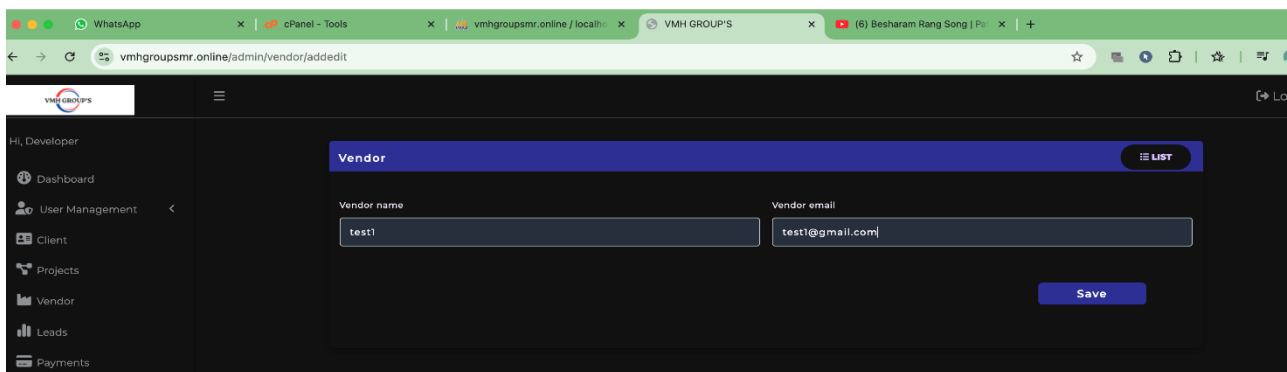
- Clicks:** 0
- Completes:** 0
- Terminates:** 0
- Project info:**
  - Project Name:** TEST1
  - Client Name:** ROHAN
  - Cost Per Complete (CPI):** \$2.00
  - Live URL:** https://www.youtube.com/watch?v=huxhqptDrM
  - Status:** Live
  - Project ID:** VMHPI015062024
  - Maximum Completes (Limit):** 3
- Description:** This is description part.
- Vendors:** A section with an 'Assign Vendors' button.

The left sidebar shows the navigation menu with options: Dashboard, User Management, Client, Projects, Vendor, Leads, and Payments. The top bar shows the user is logged in as 'Hi, Developer' and has a 'Logout' button.

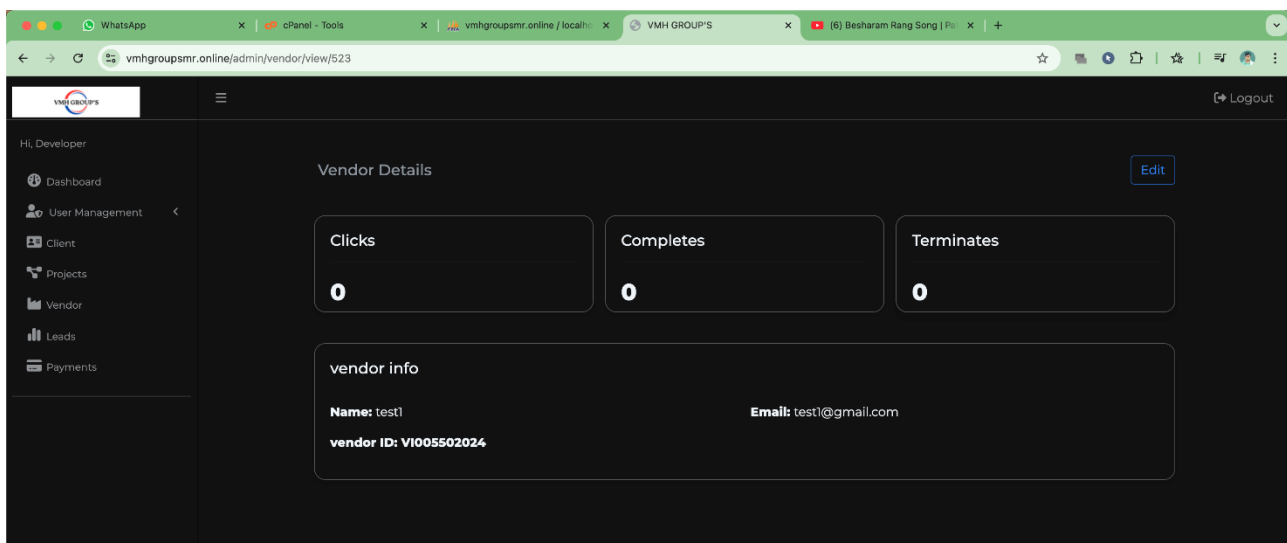
### Step 3: Assigning the new vendor.



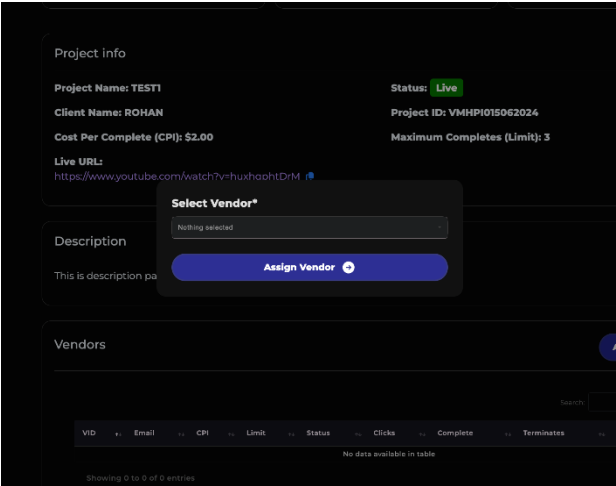
### Step 4: Fill new vendors details.



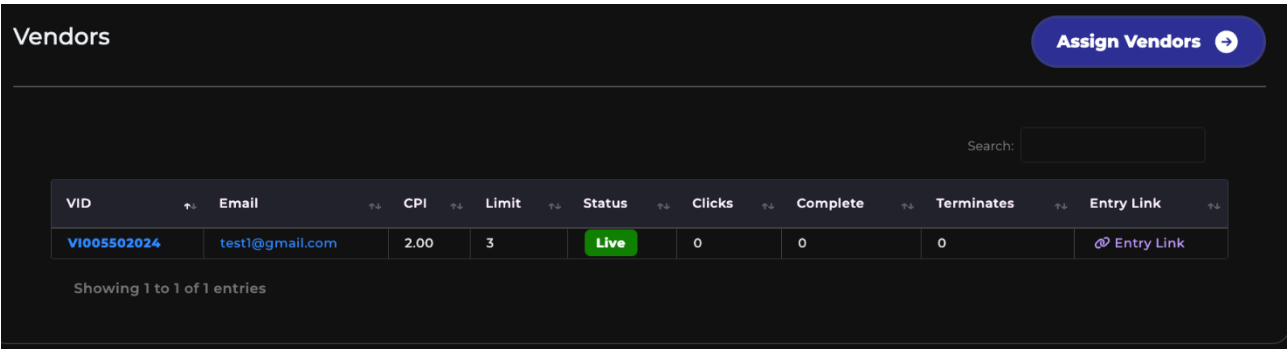
### Step 5: Vendor Create successfully .



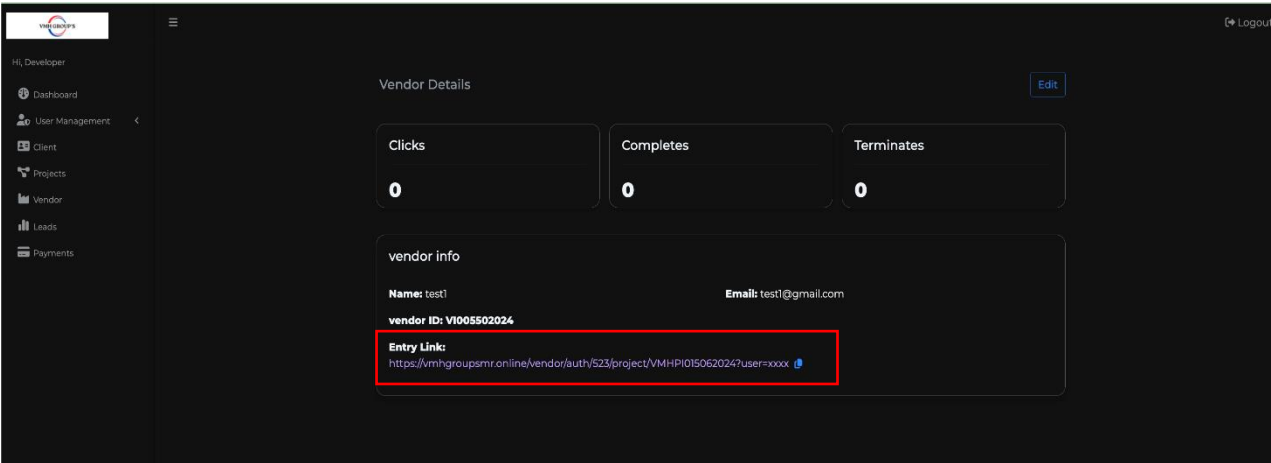
Step 6: Now search for new vendor in projects tab.



Step 7: Assigned the vendor in project.



Step 8: Vendor details with Entry link.



# CHALLENGES AND SOLUTIONS

## Challenges

- **Complex Relationships:** Managing relationships between clients, projects, users, and assignments was challenging due to the interconnected nature of the data.
- **Real-Time Updates:** Ensuring that the project statuses and user assignments were updated in real time required a robust backend logic and efficient data handling.
- **Scalability:** As the number of clients, projects, and users grows, ensuring that the system remains responsive posed scalability challenges.
- **Data Security:** Protecting sensitive client and project data from unauthorized access was a primary concern.

## Solutions

- **Optimized SQL Queries:** Optimized SQL queries were implemented to improve data retrieval times and reduce the complexity of managing relationships between entities. Indexing was also used to speed up searches.
- **Database Indexing and Load Balancing:** To handle scalability, indexing was applied to frequently queried columns, and load balancing techniques were explored to distribute database queries effectively.
- **Data Encryption and Role-Based Access Control:** Sensitive data was encrypted using standard encryption methods, and role-based access control (RBAC) was implemented to restrict data access based on user roles, thereby enhancing security.

## **CONCLUSION**

The VMH Group Database Dashboard successfully addresses the complexities of managing multiple clients, projects, and users in a unified platform. By providing features like real-time project status tracking, quota management, and customizable reporting, it ensures a transparent and efficient workflow. The use of MySQL and PHP for backend integration provides a robust foundation for data management, while AJAX enables a responsive user experience with real-time updates. Additionally, data security measures, including encryption and role-based access control, ensure that sensitive information is well-protected.

Moving forward, future enhancements will include integrating advanced analytics to track project success metrics, further improving data visualization tools for better insights, and ensuring that the platform is optimized for scalability as the number of users and projects grows. These improvements will help the system evolve to meet increasing demands and provide even greater value to clients and administrators.

# APPENDICES

**Project link:** i. [Main project link \(https://vmhgroupsmr.online/\)](https://vmhgroupsmr.online/)

ii. [Presentation Link \(https://sayanbanerjee-007.github.io/Dhrubo\\_Survey/\)](https://sayanbanerjee-007.github.io/Dhrubo_Survey/)

**Dashboard Screenshots:** Visual representation of various views within the system, including user assignments, project statuses, and quota tracking.

## 1. Visual Representation of “User Management” tab.

SI No.	Name	User Name	Mobile No.	Email	Role	Status	Login Details	Action
1	VMH GROUPS	vmhgroup	7891677632	vmhgroups.in@gmail.com	Admin			
2	krishan	krishan	959637526	krishansurveyteam@gmail.com	User			
3	Dhrub	dhrub	99999999	dhrub@gmail.com	User			
4	Delhi VMH GROUPS MR	teamvmhgroupsmr	99999999	krishansurvey@gmail.com	Admin			
5	Rohan	Rohan	7891677632	rohankhandelwal68@gmail.com	User			
6	Vivek	vivek	99999999	vikas@vmhgroupsmr.com	Admin			
7	DHRUBOZYOTI	dhrubojyoti9	8145161652	dhrubojyoti982@gmail.com	User			

## 2. Visual Representation of “projects Status” tab.

Id	Project Id	Project Name	Status	UID	Date	IP
4848	VMHPi014982024	VMH_1351	Pending	110694	2024-11-20 16:51:17	93.112.132.87
4847	VMHPi014982024	VMH_1351	Pending	viv143603351434	2024-11-20 16:49:17	82.167.108.206
4846	VMHPi014982024	VMH_1351	Terminates	102106	2024-11-20 16:43:53	159.0.228.166
4845	VMHPi014992024	VMH_1352	Pending	BF-09-0E-C0-5C-AP	2024-11-20 16:39:54	176.204.193.252
4844	VMHPi014992024	VMH_1352	Pending	4A-4A-32-47-4A-AP	2024-11-20 16:39:53	176.204.247.7
4843	VMHPi014992024	VMH_1352	Pending	ED-33-58-E0-58-AP	2024-11-20 16:39:53	94.59.28.75
4842	VMHPi014992024	VMH_1352	Pending	A6-E8-E5-39-61-AP	2024-11-20 16:39:52	5.107.245.119
4841	VMHPi014992024	VMH_1352	Pending	0B-41-EC-A5-20-AP	2024-11-20 16:39:52	94.205.169.141
4840	VMHPi014982024	VMH_1351	Pending	VIVKKAR1851855	2024-11-20 16:36:37	95.219.220.39
4839	VMHPi014982024	VMH_1351	Pending	vivkkrr93518	2024-11-20 16:36:08	188.49.125.106
4838	VMHPi014982024	VMH_1351	Pending	viv143603351	2024-11-20 16:34:33	5.163.151.89
4837	VMHPi014982024	VMH_1351	Pending	vivkkrr76345	2024-11-20 16:07:17	82.167.65.156
4836	VMHPi014982024	VMH_1351	Pending	viv100520407	2024-11-20 16:03:25	149.109.255.94
4835	VMHPi014982024	VMH_1351	Pending	VIVKK1467581160	2024-11-20 15:51:10	77.31.157.227
4834	VMHPi014982024	VMH_1351	Complete	VIVKKAR987654	2024-11-20 15:48:14	5.163.93.66
4833	VMHPi014982024	VMH_1351	Complete	viv57437463	2024-11-20 15:25:38	141.164.255.6
4832	VMHPi014982024	VMH_1351	Complete	76342	2024-11-20 15:00:36	51.223.104.136
4831	VMHPi014982024	VMH_1351	Pending	67754	2024-11-20 14:52:20	2.90.5.193
4830	VMHPi014982024	VMH_1351	Terminates	VIVKKAR123453	2024-11-20 14:48:35	176.44.190.28
4829	VMHPi014982024	VMH_1351	Terminates	VIVKK1710132031	2024-11-20 13:24:31	95.186.37.193
4828	VMHPi014982024	VMH_1351	Pending	VIVKK899648746	2024-11-20 13:21:44	142.247.221.42
4827	VMHPi014992024	VMH_1352	Pending	vivkksd8765439	2024-11-20 13:06:38	190.153.118.9
4826	VMHPi014982024	VMH_1351	Complete	VIVKK89165461	2024-11-20 13:00:59	175.110.208.101
4825	VMHPi014982024	VMH_1351	Terminates	VIVKKA5789465	2024-11-20 12:40:56	168.149.49.108
4824	VMHPi014982024	VMH_1351	Terminates	VIVKKA5464648	2024-11-20 12:21:05	93.168.191.92
4823	VMHPi014982024	VMH_1351	Complete	VIVKKA5648746	2024-11-20 11:46:19	151.255.33.102
4822	VMHPi014982024	VMH_1351	Terminates	VIVKKA5169877	2024-11-20 11:29:45	178.86.109.56
4821	VMHPi014982024	VMH_1351	Terminates	VIVKKA5165461	2024-11-20 11:17:23	141.164.194.131



C . The “Payment” tab with proper Actions.

Leads

ExcelPDF

Search:

Id	Project	Vendor	Amount	Status	Remarks	Paid at	Action
PAY005832024	VMH_1356 (VMHPID1015042024)	virabhinsgih@gmail.com	\$0.00	Pending			<div>Marks PaidMarks Rejected</div>
PAY005822024	VMH_1355 (VMHPID1015032024)	miratinsghits@gmail.com	\$0.00	Pending			<div>Marks PaidMarks Rejected</div>
PAY005812024	VMH_1354 (VMHPID1015022024)	vikas.vmhgroups@gmail.com	\$0.00	Pending			<div>Marks PaidMarks Rejected</div>
PAY005802024	VMH_1353 (VMHPID1015002024)	vikas.vmhgroups@gmail.com	\$0.00	Pending			<div>Marks PaidMarks Rejected</div>
PAY005792024	VMH_1352 (VMHPID1014992024)	vikas.vmhgroups@gmail.com	\$6.00	Pending			<div>Marks PaidMarks Rejected</div>
PAY005782024	VMH_1351 (VMHPID1014982024)	vikas.vmhgroups@gmail.com	\$7.00	Pending			<div>Marks PaidMarks Rejected</div>
PAY005772024	VMH_1350 (VMHPID1014972024)	vikas.vmhgroups@gmail.com	\$0.00	Pending			<div>Marks PaidMarks Rejected</div>
PAY005762024	VMH_1349 Arabic (VMHPID1014942024)	krishan78545@gmail.com	\$0.00	Pending			<div>Marks PaidMarks Rejected</div>
PAY005752024	VMH_1349 English (VMHPID1014952024)	krishan78545@gmail.com	\$0.00	Pending			<div>Marks PaidMarks Rejected</div>
PAY005732024	VMH_1348 (VMHPID1014932024)	miratinsghits@gmail.com	\$0.00	Pending			<div>Marks PaidMarks Rejected</div>

Showing 1 to 10 of 495 entries

Previous12345...50Next

D . Visual Representation of “Vendor List”.

VMH GROUPS

Hi, Developer

Dashboard

User Management

Client

Projects

Vendor

Leads

Payments

Logout

Vendor List

Show 10 entries

Search:

Sl No.	Vendor ID	Name	Email	Clicks	Complete	Terminates	Status	Action
1	VI005492024	VMH_1342	virabhinsgih@gmail.com	5	0	4	<div></div>	<div></div>
2	VI005482024	VMH_1335 VP	virabhinsgih@gmail.com	0	0	0	<div></div>	<div></div>
3	VI005472024	vlvek	vikas.vmhgroups@gmail.com	0	0	0	<div></div>	<div></div>
4	VI005462024	vlvek	vikas.vmhgroups@gmail.com	0	0	0	<div></div>	<div></div>
5	VI005452024	vlvek	vikas.vmhgroups@gmail.com	0	0	0	<div></div>	<div></div>
6	VI005442024	vlvek	vikas.vmhgroups@gmail.com	0	0	0	<div></div>	<div></div>
7	VI005432024	vlvek	vikas.vmhgroups@gmail.com	0	0	0	<div></div>	<div></div>
8	VI005422024	vlvek	vikas.vmhgroups@gmail.com	10	0	4	<div></div>	<div></div>
9	VI005412024	vlvek	vikas.vmhgroups@gmail.com	2	0	0	<div></div>	<div></div>
10	VI005402024	vlvek	vikas.vmhgroups@gmail.com	67	6	11	<div></div>	<div></div>

Showing 1 to 10 of 496 entries

Previous12345...50Next