



Management System for HomeFix Pest
and Termite Control Services with
SMS Technology

USER MANUAL.

As of July 2024

TABLE OF CONTENTS

Brief Description of System and Specifications

How To

- Security Module
 - Login
 - Forgot Password
- Clients Module
 - Add a Client
 - View Schedule
 - View or Add Contract Detail
 - Edit Client Information
 - Void a Client
 - View Voided Client
- Schedules Module
 - Add New Schedule
 - View Current/Ongoing Schedules
 - View Future/Upcoming Schedules
 - View Schedules in a Calendar Format
 - Send SMS to Recipient
 - Edit Schedule Information
 - Void a Schedule
 - Assign Multiple Technician at Once
- Inventory Module
 - Add New Item
 - Edit Item Information
 - Void an Item
 - View Chemical or Material or Equipment Items Only
 - View Delivery Items
 - View Voided Item
- Technician Module
 - Add a Technician
 - View Assigned Items of a Technician
 - Edit Technician Information
 - Void a Technician
 - View Services
 - View Voided Technician
 - Update Service Status
 - Edit Assigned Technician to a Schedule
 - Assign a Technician to a Schedule
 - Assign Item to a Technician
 - Return an Item of a Technician

- Sales & Revenue Module
 - Add New Sales
 - Edit Sales Information
 - View Revenue
 - View Average Sales
 - Generate Sales Report
- SMS Format Module
 - Create New SMS Format
 - View an SMS Format
 - Edit an SMS Format
 - View Lists of Client SMS Formats Only
 - View Lists of Technician SMS Formats Only
- Maintenance Module
 - Add New Admin
 - Create a Backup of Database File
 - Restore a Database File
- User Logs Module
 - View Activity of User
- Help Module
 - Generate User Manual
- About Module
 - View the Description of System and Developers

Developer's Information

References

BRIEF DESCRIPTION OF SYSTEM & SPECIFICATIONS

SYSTEM DESCRIPTION



To boost operational efficiency, the developers created an advanced management system incorporating SMS technology. This system is designed to streamline various business operations, enhancing employee performance. The management system was built using Python for programming and PyQt6 for the graphical user interface. Python was selected for its versatility, dynamic scripting capabilities, and human-readable syntax, which simplifies coding. Additionally, Python's extensive

extensive libraries, such as NumPy and Pandas, provide valuable resources for development, learning, and debugging. PyQt6 was chosen for its open-source, cross-platform, and object-oriented framework, offering a range of pre-built components. The backend utilized MySQL due to its simplicity, robustness, cost-effectiveness, and the developers' familiarity with its integration with Python.

SYSTEM MINIMUM SPECIFICATIONS

HARDWARE:

- Laptop (preferably from Dell Inspiron Core i2-7th Gen or Maibenben Damai E526 versions to latest)
- 8 GB RAM (minimum)
- GSM Module SIM800C

SOFTWARE:

- Linux Manjaro or Windows 10

DEVELOPMENT TOOL / PLATFORM USED:

- Visual Studio Code
- QtDesigner (PyQt6)
- MySQL

HOW TOs

----- SECURITY MODULE -----

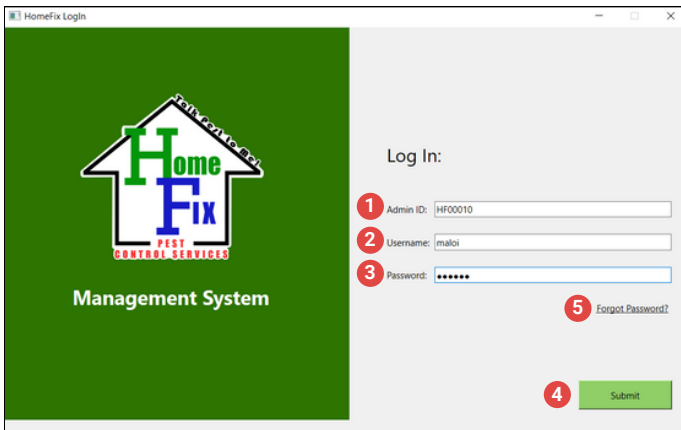
The screenshot shows the HomeFix Login window. On the left is a green panel with the HomeFix logo (a house with 'Home' in green and 'Fix' in blue) and the text 'Management System'. On the right is a white login form with the title 'Log In:'. It contains three input fields: 'Admin ID:' with the value 'HF00010' (labeled 1), 'Username:' with the value 'maloi' (labeled 2), and 'Password:' with masked characters (labeled 3). A red circle with the number 5 is next to a link that says 'Forgot Password?'. At the bottom right is a green 'Submit' button (labeled 4).

Figure 1 Login Page

Login:

- To login to the system, fill out the text fields that are numbered **1**, **2**, and **3** in the picture with corresponding inputs then click the button Submit which is numbered with **4**.

Forgot Password:

- If you forgot your password, from the Login Page, click the number **5** as seen in Figure 1
- Continuing, fill out all the next text fields in Figures 2, 3, and 4.

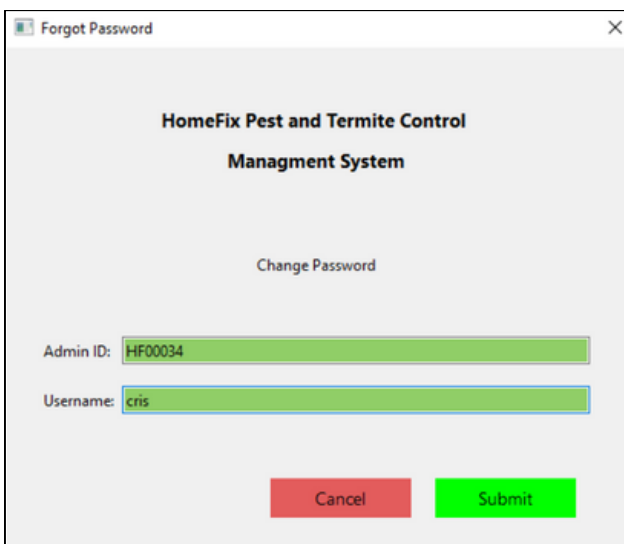
The screenshot shows the 'Forgot Password' window, Page 1. It has the same header as Figure 1. Below the 'Change Password' title, there are two input fields: 'Admin ID:' with the value 'HF00034' and 'Username:' with the value 'cris'. At the bottom are red 'Cancel' and green 'Submit' buttons.

Figure 2 Forgot Password Page 1

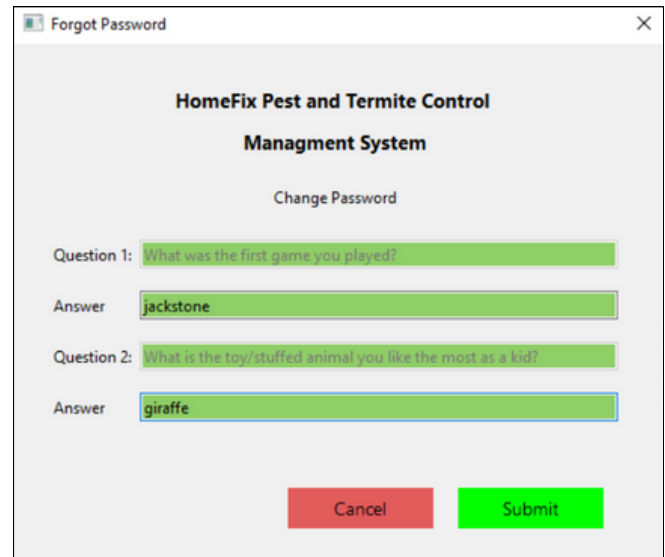
The screenshot shows the 'Forgot Password' window, Page 2. It has the same header. Below the 'Change Password' title, there are two security questions. 'Question 1:' is 'What was the first game you played?' with an answer of 'jackstone'. 'Question 2:' is 'What is the toy/stuffed animal you like the most as a kid?' with an answer of 'giraffe'. At the bottom are red 'Cancel' and green 'Submit' buttons.

Figure 3 Forgot Password Page 2

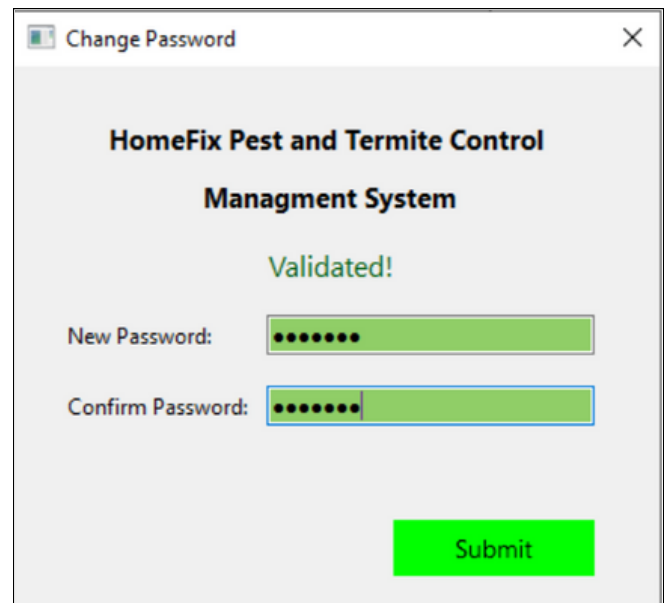
The screenshot shows the 'Forgot Password' window, Page 3. It has the same header. Below the 'Change Password' title, it says 'Validated!'. There are two input fields: 'New Password:' and 'Confirm Password:', both with masked characters. At the bottom is a green 'Submit' button.

Figure 4 Forgot Password Page 3

HOW TOs

----- CLIENTS MODULE -----

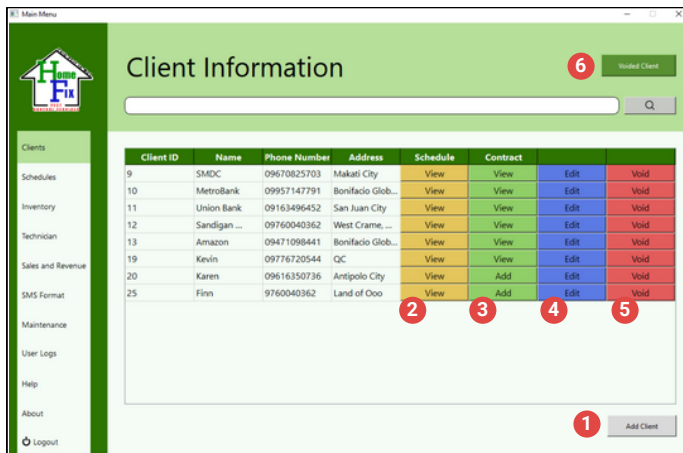


Figure 5 Clients Page

Add a Client:

- To add a new client, simply click the button Add Client numbered as 1 in Figure 5

View Schedule:

- To view the client's schedule, simply click the View button labeled as 2 in Figure 5

View or Add Contract:

- To view an existing contract or add contract to clients with no contracts, simply click the button labeled as 3 in Figure 5.

Edit Client Information:

- To edit a client's information, simply click the Edit button labeled as 4 in Figure 5.

Void a Client:

- To void a client, simply click the Void button labeled as 5 in Figure 5.

View Voided Client:

- To view the lists of voided clients, simply click the Voided Client button above which is labeled as 6 in Figure 5.

----- SCHEDULES MODULE -----

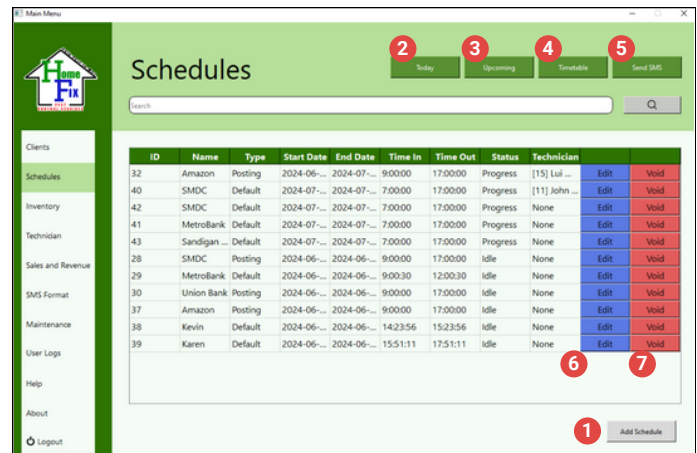


Figure 6 Schedules Page

Add New Schedule:

- To add a new schedule, simply click the Add button labeled as 1 in Figure 6

View Current/Ongoing Schedules:

- To view the current schedules, click the Today button above which is labeled as 2 in Figure 6

View Future/Upcoming Schedules:

- To view future schedules, click the Upcoming button which is labeled as 3 in Figure 7

View Schedules in Calendar Format:

- To view the schedules in a calendar format, click the Timetable button labeled as 4 in Figure 6

Send SMS to Recipient:

- To send an SMS, click Send SMS button labeled as 5 in Figure 6

Edit Schedule Information:

- To edit a schedule's information, simply click the Edit button labeled as 6 in Figure 6

HOW TOs

----- SCHEDULES MODULE -----

Void a Schedule:

- To void a schedule, simply click the Void button labeled as **7** in Figure 6

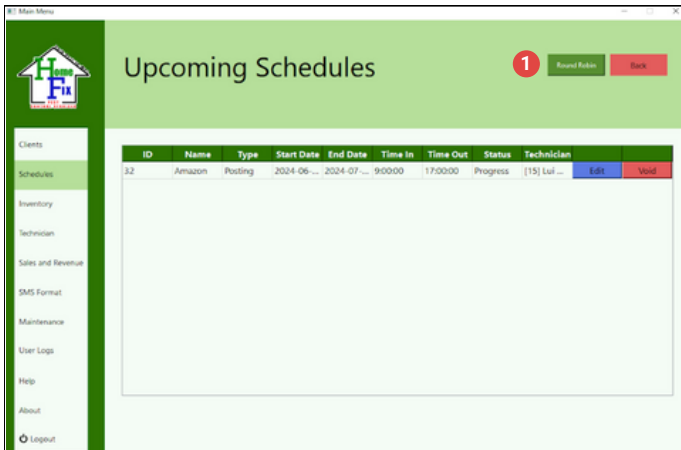


Figure 7 Upcoming Schedules Page

Assign Multiple Technicians at Once:

- To be able to assign multiple technicians at once, click the Upcoming button in Figure 6 labeled as **3**.
- After clicking the Upcoming button, you will be redirected to the Upcoming Schedules Page.
- Then click the Round Robin button above the system screen which is labeled as **1** in Figure 7.

----- INVENTORY MODULE -----

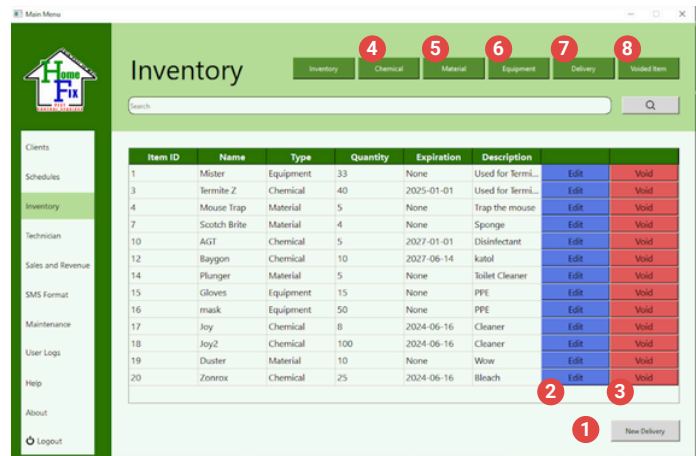


Figure 8 Inventory Page

Add New Item:

- To add new item, click New Delivery Button labeled as **1** in Figure 8

Edit Item Information:

- To edit item's information, click the Edit button labeled as **2** in Figure 8

Void an Item:

- To void an item, click Void button labeled as **3** in Figure 8

View Chemical or Material or Equipment Items Only:

- To view the same type of item only, click either the buttons labeled as **4, 5, or 6** in Figure 8 depending on which you would want to see

View Delivery Items:

- To view delivered items, click the Delivery button labeled as **7** in Figure 8

View Voided Items:

- To view voided items, click the Voided Item button labeled as **8** in Figure 8

HOW TOs

----- TECHNICIANS MODULE -----

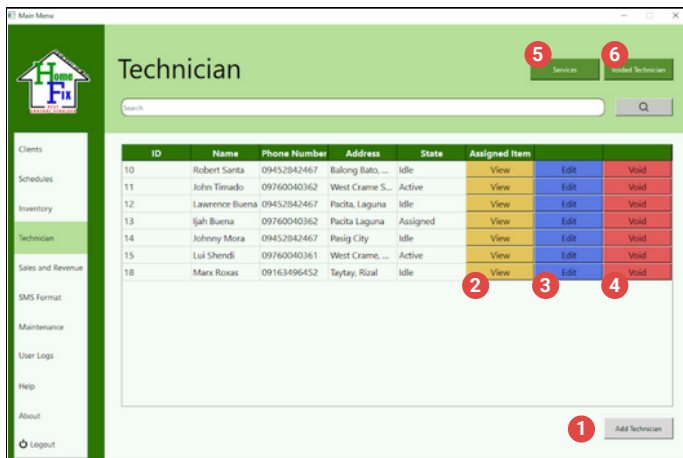


Figure 9 Upcoming Schedules Page

Add a Technician:

- To add a new technician, click Add Technician button labeled as 1 in Figure 9.

View Assigned Items of a Technician:

- To view items assigned to a technician, click View button labeled as 2 in Figure 9

Edit Technician Information:

- To edit a technician's information, click the Edit button labeled as 3 in Figure 9

Void a Technician:

- To void a technician, click Void button labeled as 4 in Figure 9

View Services:

- To see the lists of services, click the Services button labeled as 5 in Figure 9

View Voided Technician:

- To view the lists of voided technicians, click Voided Technician button labeled as 6 in Figure 9

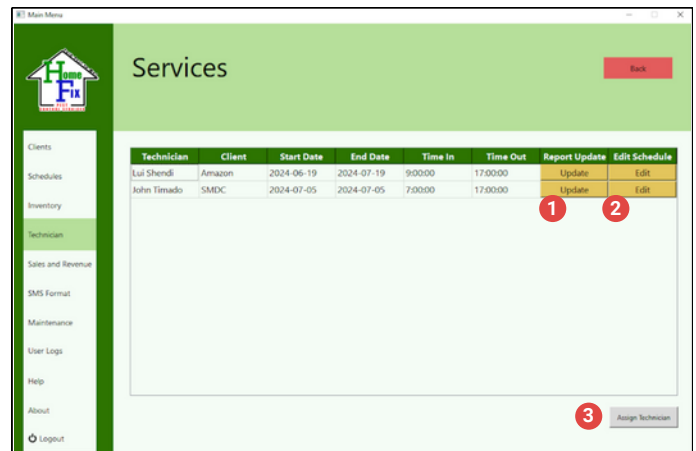


Figure 10 Services Page

Update Service Status:

- To update a service status, click the Services button labeled as 5 in Figure 9
- Then, click Update button labeled as 1 in Figure 10

Edit Assigned Technician to a Schedule:

- To edit assigned technician to a schedule, click Edit button labeled as 2 in Figure 10

Assign a Technician to a Schedule:

- To assign a technician to a schedule, click the Assign Technician button labeled as 3 in Figure 10

HOW TOs

----- TECHNICIANS MODULE -----

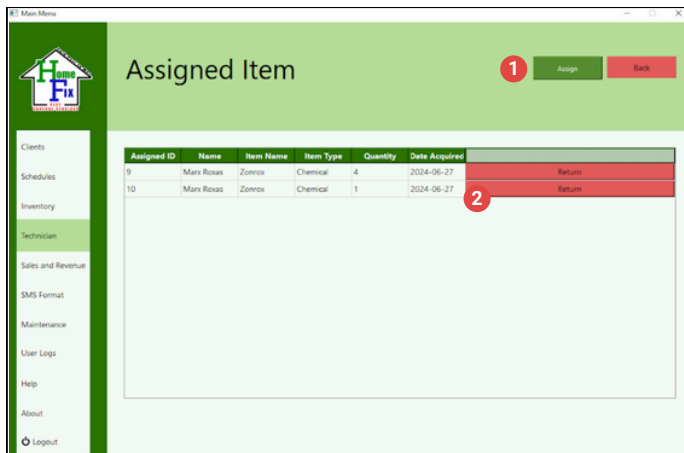


Figure 11 Assigned Items Page

Assign Item to a Technician:

- To assign an item to a technician, click View button labeled as 2 in Figure 9.
- Then click Assign button that can be seen on top of the system which is labeled as 1 in Figure 11

Return Item of a Technician:

- To return item assigned to a technician, click Return button labeled as 2 in Figure 11.

----- SALES & REVENUE MODULE -----

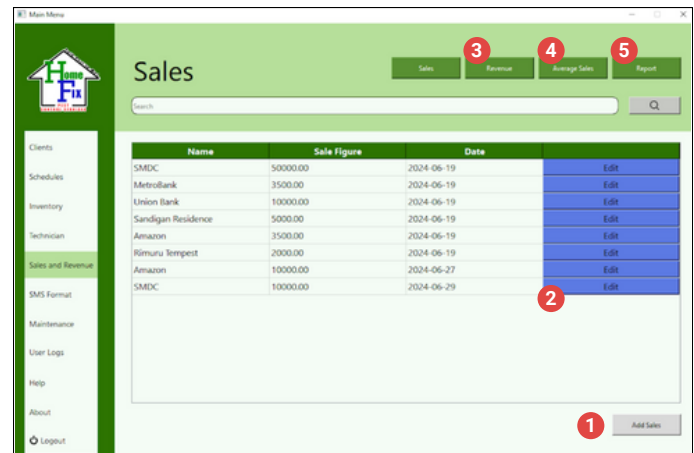


Figure 12 Sales Page

Add New Sales:

- To add new sales, click Add Sales button labeled as 1 in Figure 12

Edit Sales Information:

- To edit sales information, click Edit button labeled as 2 in Figure 12

View Revenue:

- To view the revenue of the company, click Revenue button labeled as 3 in Figure 12

View Average Sales

- To view the average sales, click Average Sales button labeled as 4 in Figure 12

Generate Sales Report:

- To generate a report on sales of the company, click Report button labeled as 5 in Figure 12

HOW TOs

----- SMS FORMAT MODULE -----

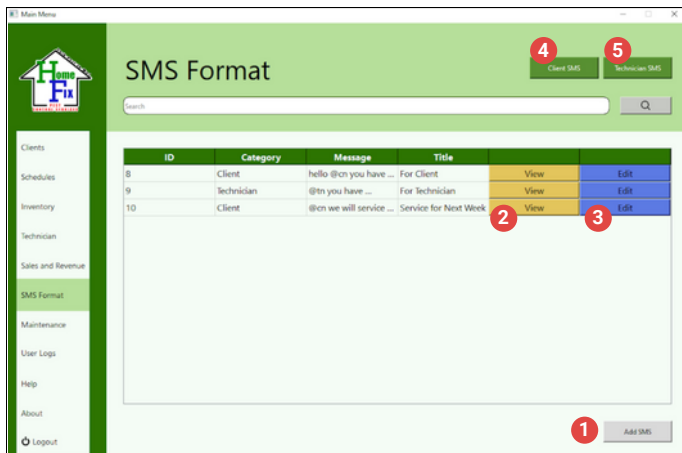


Figure 13 SMS Format Page

Create New SMS Format:

- To create a new SMS format, click Add SMS button labeled as **1** in Figure 13

View an SMS Format:

- To view an SMS format, click View button labeled as **2** in Figure 13

Edit an SMS Format:

- To edit an SMS format, click Edit button labeled as **3** in Figure 13

View Lists of Client SMS Formats Only:

- To view only the Client SMS Formats, click Client SMS button labeled as **4** in Figure 13

View Lists of Technician SMS Formats Only:

- To view only the Technician SMS Formats, click Client SMS button labeled as **5** in Figure 13

----- MAINTENANCE MODULE -----

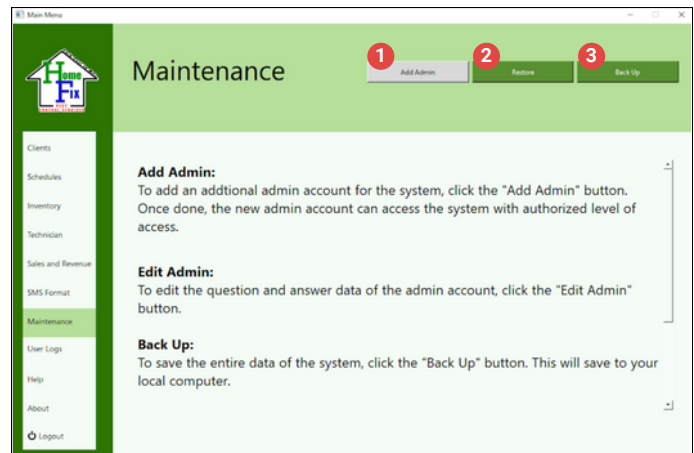


Figure 14 Maintenance Page

Add New Admin:

- To add new admin, click Add Admin button labeled as **1** in Figure 14

Create a Backup of Database File:

- To create a backup, click the Backup button labeled as **3** in Figure 14

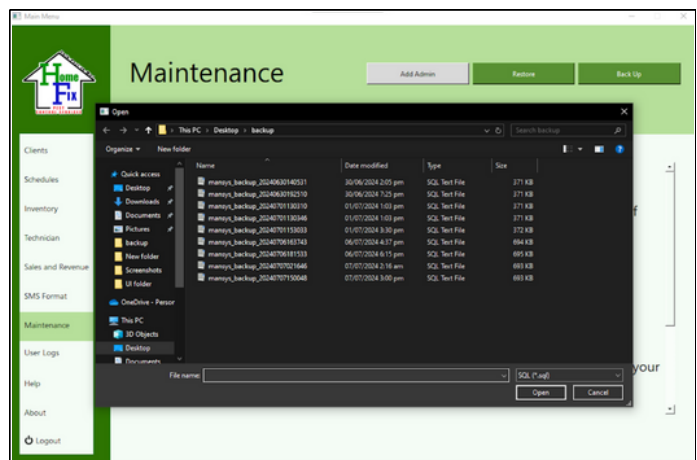


Figure 15 Saved Backup Files

Restore a Database File:

- To restore a database file, click Restore button labeled as **2** in Figure 14.
- Select any file saved as seen in Figure 15 then open it.

HOW TOs

----- USER LOGS MODULE -----

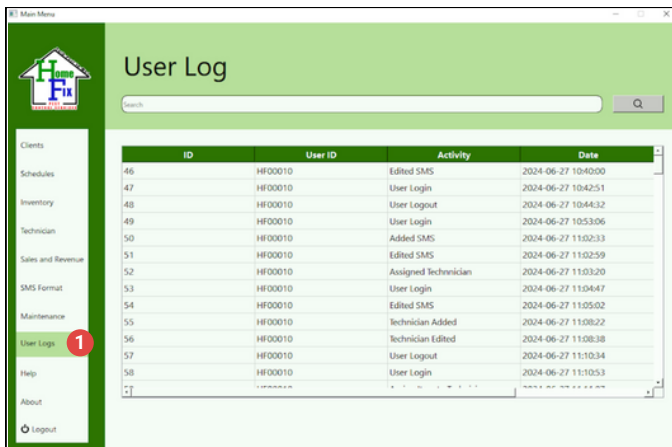


Figure 16 User Logs Page

View Activity of User:

- Directly click the user logs navigation labeled as **1** in Figure 16.

----- ABOUT MODULE -----

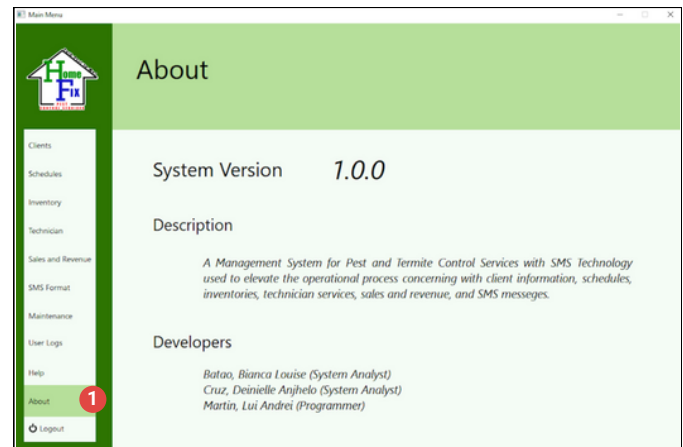


Figure 18 About Page

View Description of System and Developers:

- Directly click the About navigation labeled as **1** in Figure 18

----- HELP MODULE -----

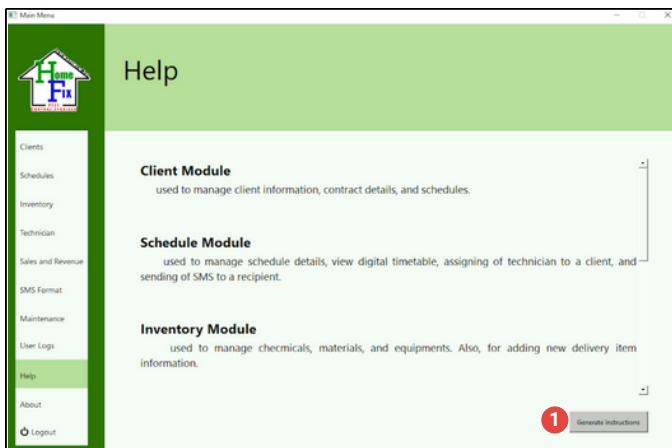


Figure 17 Help Page

Generate User Manual:

- To generate user manual, click Generate instructions button labeled as **1** in Figure 17

DEVELOPERS' INFORMATION



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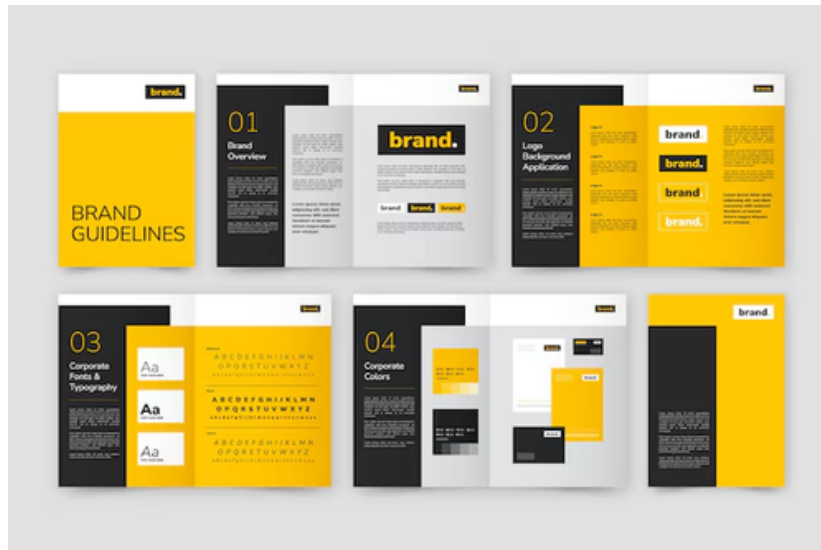
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REFERENCES



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