

Stones Sales Management System

Database class project, academic year 2025/2026

-----This section is intended for the Instructor-----

<u>Topic</u>	<u>Mark</u>
Project Requirements and Modeling	
Correctness of Database mapping	
Functional Dependency and Normalization	
Project Tools	
Project Discussion	
Project Completeness	
Project Output Results or reporting (JasperReport, charts, graphs, etc.)	
Project Administration and Management	
Project Report	
Project Idea	
Project Complexity	
Team work	

Abstract:

The Stone Sales Management System is a desktop application developed to manage stone products, customers, employees, and orders in an organized and efficient way. The system is built using JavaFX for the user interface and PostgreSQL as the database, ensuring reliable data storage and smooth interaction between different system components. It follows a structured architecture that separates the user interface, business logic, and database operations.

The system supports multiple user roles: Admin, Employee, and Customer. Customers can browse available stones, view details and images, place orders based on available stock, and cancel orders while their status is still pending. Employees can view and handle assigned orders, while administrators can manage employees, stones, orders, and order statuses, including assigning employees and archiving completed orders.

The application enforces business rules such as stock validation, order status control, and data integrity using database constraints. It also provides email notifications for completed orders and uses a modern dark-themed interface to enhance usability. Overall, the system demonstrates effective use of database management, Java programming, and user interface design to automate and simplify the stone sales process.

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Introduction:

In today's competitive construction and building-materials market, stone factories and sales businesses need a reliable management system to organize daily operations and reduce manual errors. The **Stone Sales Management System** was developed as a desktop application to support the core workflow of a stone-selling business, including managing customers, employees, inventory, and orders in one centralized platform. This project idea was inspired by my father's real work environment, as he owns and manages a stone factory, where tracking stock, processing customer requests, and following up on sales can become difficult when handled manually.

The system provides three main user roles—**Admin, Employee, and Customer**—each with specific permissions to ensure secure and organized access. Customers can browse available stones and place orders, while employees can follow up on assigned orders and update their status. The admin can control the entire business flow by maintaining the stone catalog (including images), approving and managing orders, and generating reports using **JasperReports**. By connecting the application to a **PostgreSQL** database, the system ensures data consistency, clear relationships between entities, and efficient retrieval of information. Overall, the Stone Sales Management System aims to improve the speed, accuracy, and organization of stone sales operations, while providing a practical solution based on a real business need.

Project Requirements:

- The stone sales company employs several individuals organized by roles (Admin, Employee, and Customer). Each **user** has a unique **user ID**, a **username**, and a **password** used for system login. We store each user's full name, **phone number**, **address**, **email** (optional), **role**. Each user has exactly one role, and customer/employee details are stored in separate tables linked to the **Users** table.
- The company maintains a catalog of **stones**, each identified by a unique **stone ID**. For each stone, we store the **name**, **type** (e.g., Marble, Limestone, Jerusalem Stone), **size**, **price per unit**, **quantity in stock**, and optionally an **image**. Stones are managed by the admin, who can add, update, or delete stone records. A single stone can be included in many different orders over time (through **Order_Details**), and an order can include many different stones.
- Each **order** in the system has a unique **order ID** and is linked to exactly one customer (who places the order). An order may also be linked to one employee (who handles it), but **Employee_ID** can be **NULL** if the order has not been assigned yet. We store the **order date**, **total amount**, and **order status** ("Pending", "Assigned", "In Progress", "Completed", "Delivered", "Canceled"). A customer can create many orders, but each order belongs to only one customer. Likewise, one employee can handle many orders, while each order is handled by at most one employee.
- Each **Order_Details** record identifies one stone item within an order. It includes a unique **order_detail ID**, the **order ID** (to which it belongs), the **stone ID**, the **quantity ordered**, and

unit price. This allows the system to manage orders that include multiple stone types and quantities. The relationship is many-to-many between Orders and Stones, resolved through Order_Details (one order has many order details, and one stone can appear in many order details). The quantity ordered must not exceed the stone's available quantity in stock at the time of purchase, and stock is reduced when the order is confirmed.

- Each **employee** has detailed information stored in a separate Employee table linked to the Users table, including **employee ID**, **full name**, **phone number**, **address**, **salary**, and **date hired**. Employees can log in using their assigned credentials, manage assigned orders for customers, update order status.
- **Customers** are stored in a separate Customer table linked to the Users table. Each customer has a unique **customer ID**, and customer-specific information includes **full name**, **phone number**, and **address**. When someone registers through the application, a record is created in the Users table with role = Customer, and a corresponding record is created in the Customers table for additional customer information. A customer can place many orders, and can also create many stone requests.
- The system maintains a **Custom_Orders** table to store stone requests made by customers before creating a formal order. Each request has a unique **ID** and is linked to exactly one customer. For each stone request, the system stores the **stone name**, **stone type**, **size**, requested **quantity**, additional notes (optional), **request status** (such as “Pending”, “Approved”, “Converted”), and the **date and time when the request was created**. A customer can create many stone requests, and each request belongs to one customer. Stone requests are reviewed by the admin or employees and may later be converted into regular orders (when converted, the request status becomes “Converted” and an order is created based on the request details).

Functional Dependency + BCNF + Normalization:

Customer Table:

(Customer_ID, User_ID, Phone_Number, Address, First_Name, Middle_Name, Last_Name)

Primary Key : Customer_ID

functional dependency:

Customer_ID → User_ID, Phone_Number, Address, First_Name, Middle_Name, Last_Name
(BCNF)

- ❖ As all functional dependencies have a super key on the left-hand side, the Customer table satisfies Boyce-Codd Normal Form (BCNF) and does not require further decomposition.

Orders Table:

(Order_ID, Customer_ID, Employee_ID, Order_Status, Payment, Order_Date, Total_Amount)

Primary Key : Order_ID**functional dependency:**

Order_ID → Customer_ID, Employee_ID, Order_Status, Payment, Order_Date, Total_Amount
(BCNF)

- ❖ As all functional dependencies have a super key on the left-hand side, the Orders table satisfies Boyce-Codd Normal Form (BCNF) and does not require further decomposition.

Order_Details Table:

(Order_Detail_ID, Order_ID, Stone_ID, Quantity, Unit_Price)

Primary Key : Order_Detail_ID**functional dependency:**

- Order_Detail_ID → Order_ID, Stone_ID, Quantity, Unit_Price
- Stone_ID → Unit_Price (**violation of BCNF**)

Normalization:**R1: Stone_Price**

Stone_Price(Stone_ID, Unit_Price)

Stone_ID → Unit_Price **(BCNF)**

R2: Order_Details

Order_Details(Order_Detail_ID, Order_ID, Stone_ID, Quantity)

Order_Detail_ID → Order_ID, Stone_ID, Quantity **(BCNF)**

- ❖ The Order_Details table initially contained the functional dependency Stone_ID → Unit_Price, which violates Boyce-Codd Normal Form since Stone_ID is not a superkey. To resolve this, the table was decomposed into two relations: Stone_Price(Stone_ID, Unit_Price) and Order_Details(Order_Detail_ID, Order_ID, Stone_ID, Quantity).

After decomposition, both relations satisfy BCNF, as all functional dependencies have superkeys on the left-hand side.

Stone Table:

(Stone_ID, Name, Type, Size, Quantity_In_Stock, Price_Per_Unit, Image)

Primary Key : Stone_ID

functional dependency:

Stone_ID → Name, Type, Size, Quantity_In_Stock, Price_Per_Unit, Image (**BCNF**)

- ❖ As all functional dependencies have a super key on the left-hand side, the stone table satisfies Boyce-Codd Normal Form (BCNF) and does not require further decomposition

Employee Table:

(Employee_ID, User_ID, Salary, Phone_Number, Address, Date_Hired, First_Name, Middle_Name)

Primary Key : Employee_ID

functional dependency:

Employee_ID → User_ID, Salary, Phone_Number, Address, Date_Hired, First_Name, Middle_Name (**BCNF**)

- ❖ As all functional dependencies have a super key on the left-hand side, the Employee table satisfies Boyce-Codd Normal Form (BCNF) and does not require further decomposition

User Table:

(User_ID, User_Name, Password, Phone_Number, Email, First_Name, Middle_Name, Last_Name)

Primary Key : User_ID

functional dependency:

User_ID → User_Name, Password, Phone_Number, Email, First_Name, Middle_Name, Last_Name (**BCNF**)

- ❖ As all functional dependencies have a super key on the left-hand side, the User table satisfies Boyce-Codd Normal Form (BCNF) and does not require further decomposition

Custom_Order Table:

(Custom_Order_ID, Customer_ID, Stone_Name, Stone_Type, Size, Requested_Quantity, Notes, Status)

Primary Key : Custom_Order_ID

functional dependency:

- Custom_Order_ID → Customer_ID, Stone_Name, Stone_Type, Size, Requested_Quantity, Notes, Status (BCNF)
- Stone_Name → Stone_Type, Size (violation of BCNF)

Normalization:

R1: Custom_Stone

(Stone_Name, Stone_Type, Size)

Stone_Name → Stone_Type, Size (BCNF)

R2: Custom_Order

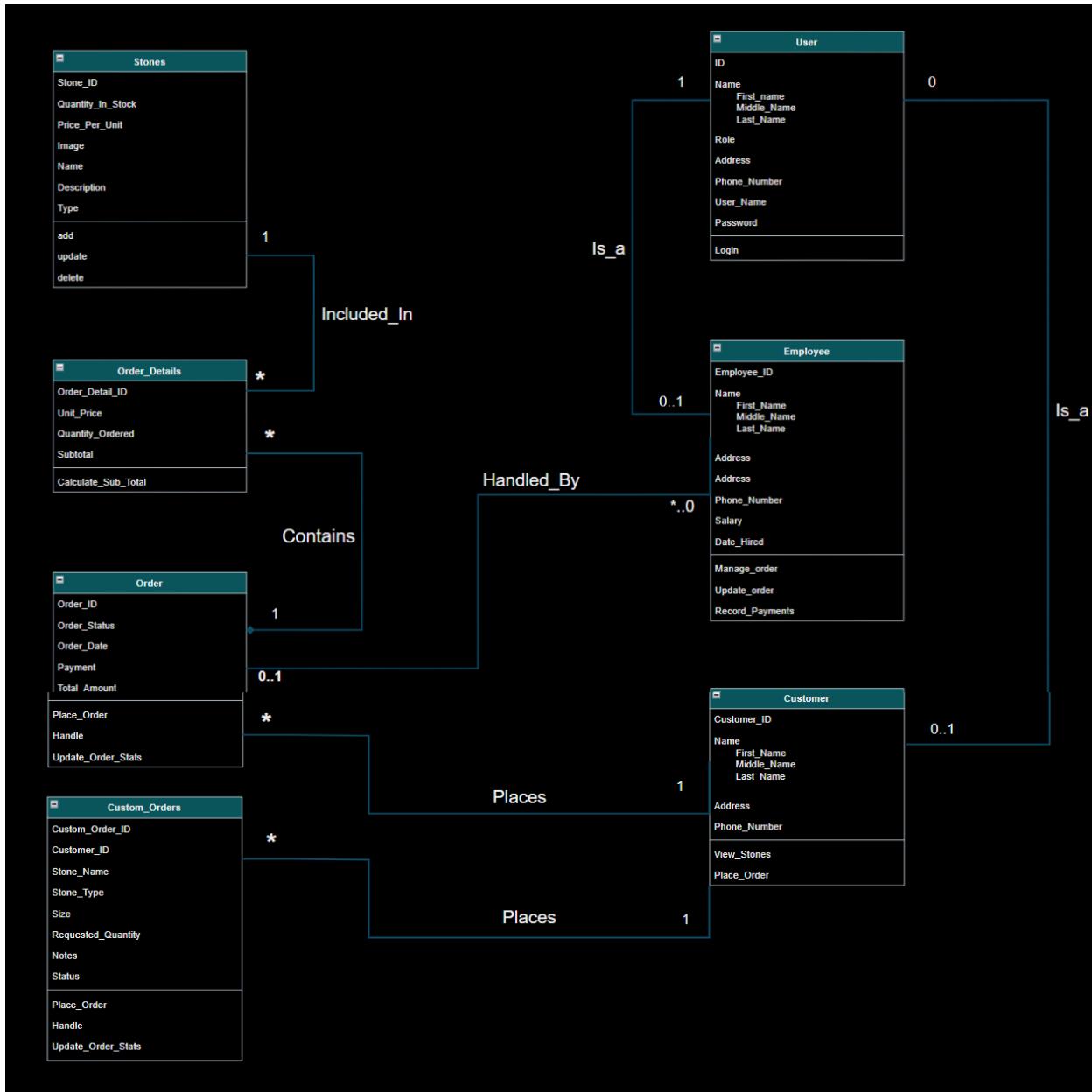
(Custom_Order_ID, Customer_ID, Stone_Name, Requested_Quantity, Notes, Status)

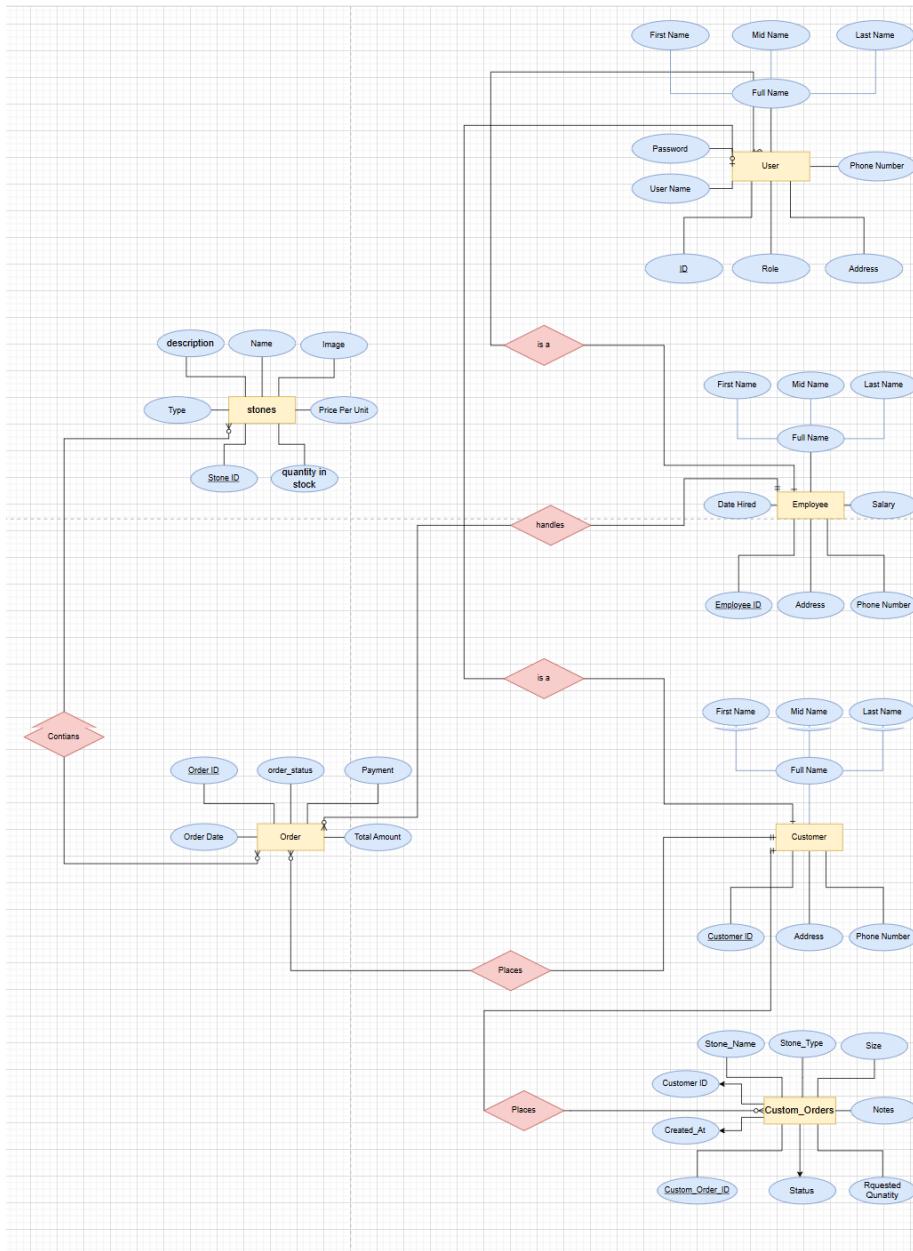
Custom_Order_ID → Customer_ID, Stone_Name, Requested_Quantity, Notes, Status (BCNF)

- ❖ The Custom_Order table contained the functional dependency Stone_Name → Stone_Type and Size, which violates Boyce-Codd Normal Form since Stone_Name is not a superkey. To eliminate this violation, the table was decomposed into two relations: Custom_Stone(Stone_Name, Stone_Type, Size) and Custom_Order(Custom_Order_ID, Customer_ID, Stone_Name, Requested_Quantity, Notes, Status). After decomposition, both relations satisfy BCNF.
- ❖ After analyzing all database relations, it was confirmed that all tables satisfy the First Normal Form (1NF) by ensuring atomic attributes and the absence of repeating groups. All relations also satisfy the Second Normal Form (2NF), as every non-key attribute is fully functionally dependent on the entire primary key.
- ❖ During the normalization process, some relations initially violated the Third Normal Form (3NF) and Boyce-Codd Normal Form (BCNF) due to the presence of non-key functional dependencies. Specifically, the Order_Details table contained the dependency Stone_ID → Unit_Price, and the Custom_Order table contained the dependency Stone_Name → Stone_Type and Size. These violations were resolved by decomposing the affected tables into smaller relations that eliminate transitive dependencies.

- ❖ As a result, all relations in the final database design satisfy Third Normal Form (3NF) and Boyce-Codd Normal Form (BCNF), ensuring reduced redundancy, improved data integrity, and a well-structured relational schema.

EER crow's foot notation and UML:



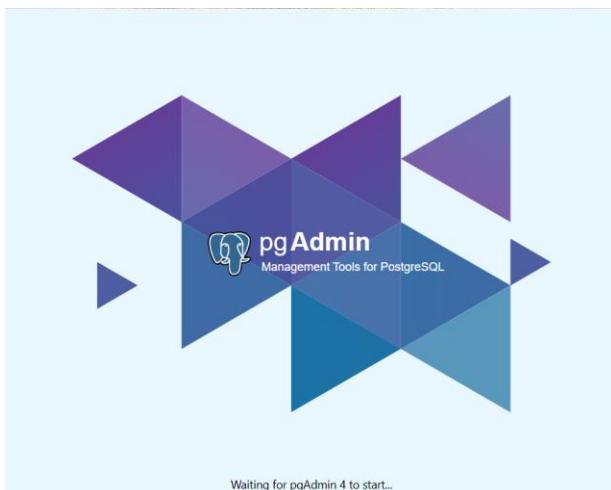


Tools used in the project:

We used **eclipse + JavaFx** to make the application interface (GUI):



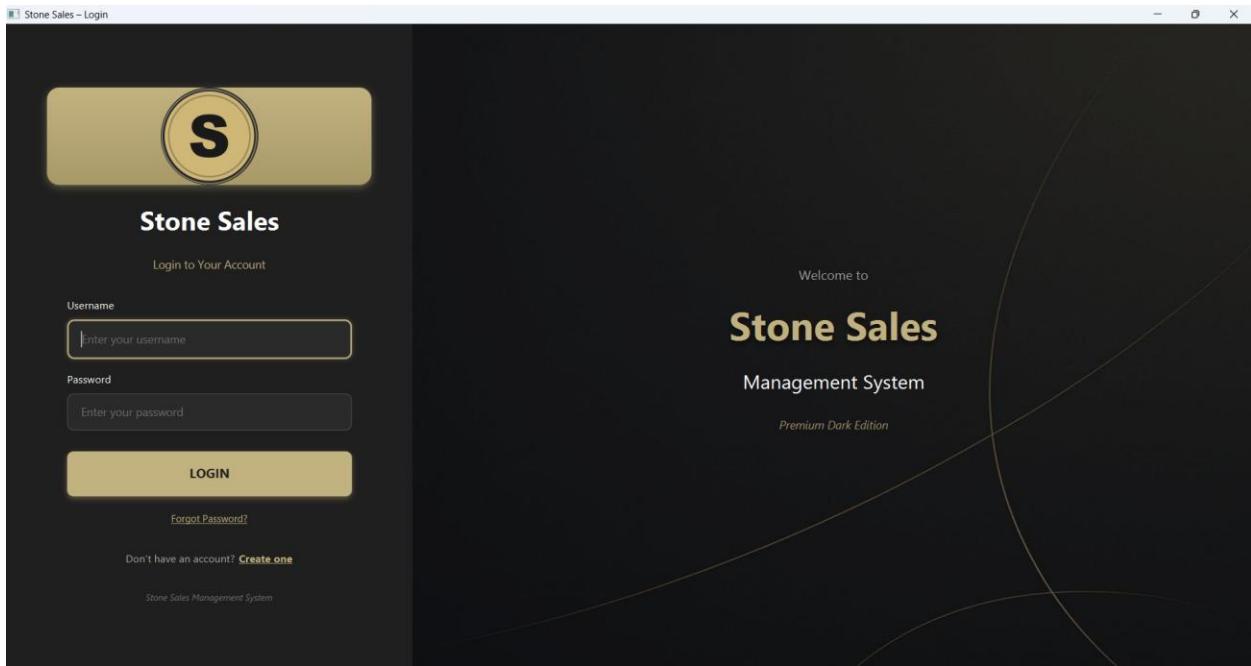
We used **pgAdmin** to build the database:



We used **jaspersoft Studio** to create a reports:



What each interface does:



Login Screen (Stone Sales – Login)

This is the main entry point to the Stone Sales Management System. Its job is simple: authenticate the user safely before allowing access to any features.

What the user does here

Username field: the user types their username to identify their account.

Password field: the user enters the password (hidden for privacy).

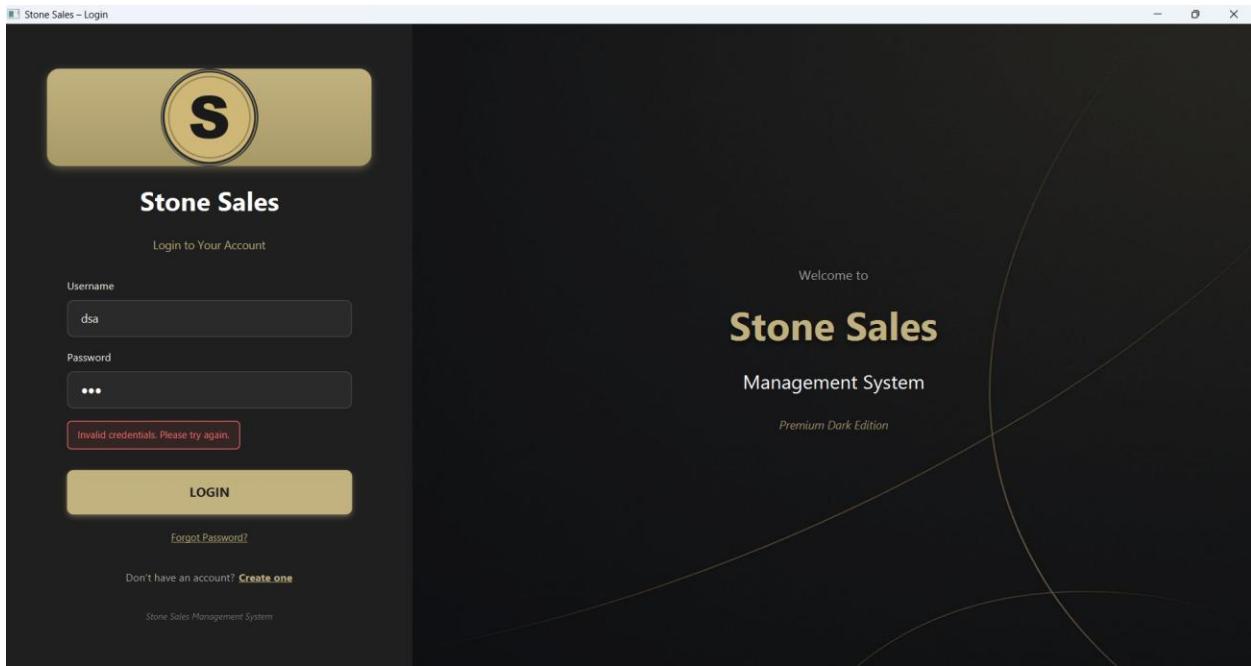
LOGIN button: sends the credentials to the system to verify them.

Extra option

“Create one” link: for new users who don’t have an account yet, it opens the registration/sign-up screen.

What happens after login

If the username/password are correct, the system opens the correct workspace for the user (for example: Admin Panel, Employee Dashboard, or Customer Portal) so each user only sees what they are allowed to use.



Login Screen (Invalid Account / Wrong Credentials)

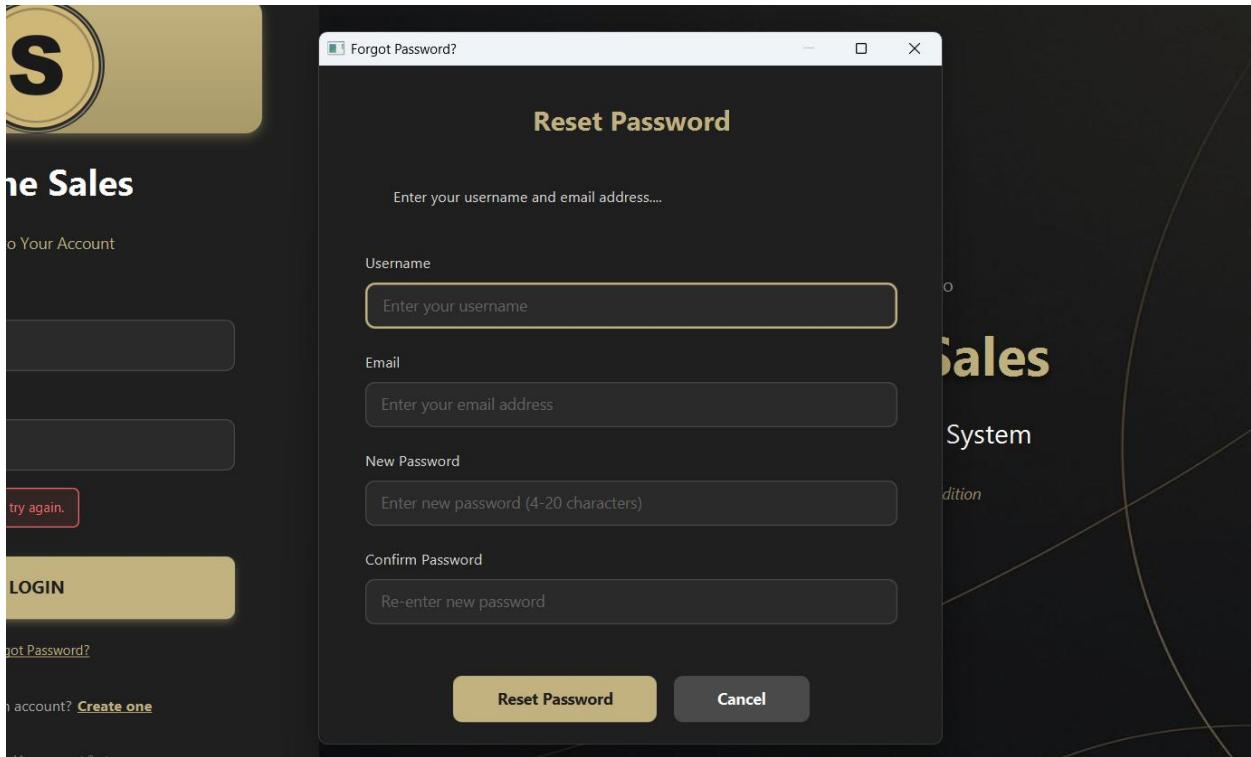
This screen shows what happens when the user tries to log in with incorrect username or password.

What the system does

It rejects the login attempt and keeps the user on the same login page (no access is granted).

It displays a clear error message: "Invalid credentials. Please try again."

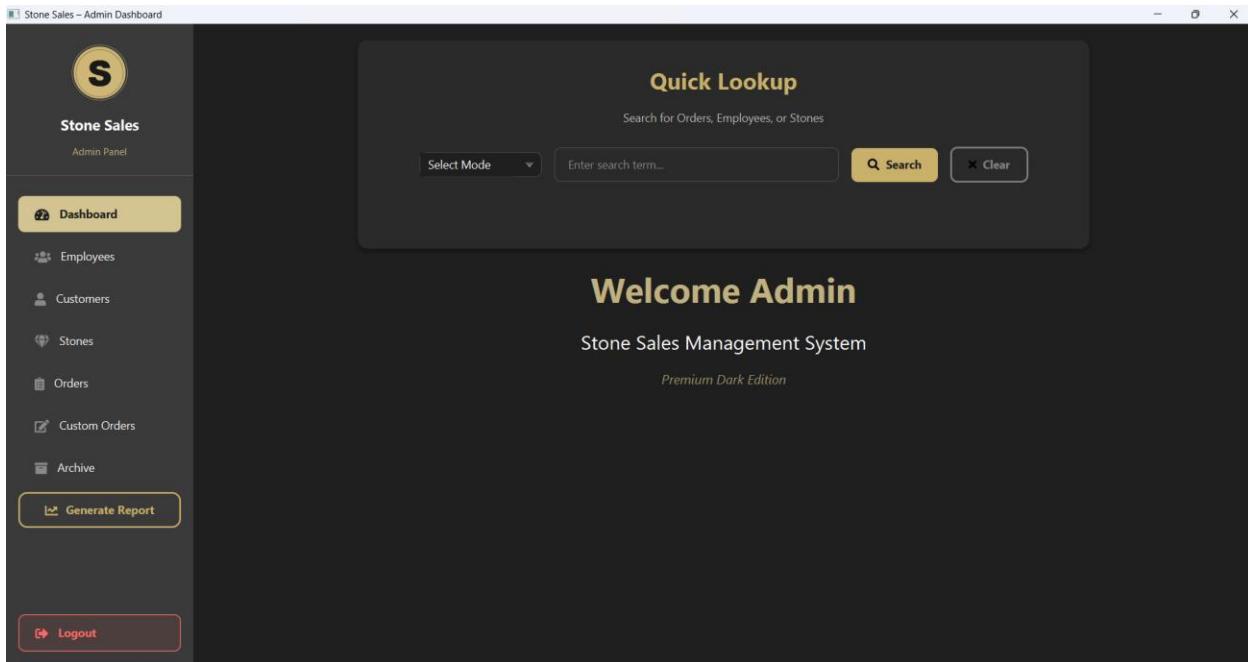
The fields remain visible so the user can correct the username/password quickly and try again.



This screen shows the “Forgot Password / Reset Password” window. It allows the user to recover access to the account by entering the Username and Email, then choosing a New Password and confirming it in Confirm Password. After filling the fields, the user can press Reset Password to update the password, or press Cancel to close the window without making any changes.

The screenshot displays two windows of the "Stone Sales - Create Account" application. The top window is the main login screen, featuring a large yellow "S" logo at the top left, followed by the text "Create Account" and "Join Stone Sales Management System". Below this are several input fields for "Full Name", "Username", "Password", "Confirm Password", "Phone Number", "Address", and "Email (optional)". To the right of these fields is a "Join Us" button and the "Stone Sales Management System" logo with the tagline "Start Your Journey". The bottom window shows the same form, but with the "Email (optional)" field removed. At the bottom of this window are two buttons: "REGISTER" (highlighted in yellow) and "CANCEL". Below the "REGISTER" button is a link "Already have an account? [Sign in](#)". The footer of both windows reads "Stone Sales Management System".

When the user clicks **Create Account** on the login page, the **Create Account** form appears. On this page, the customer can enter their details and create a new account in the system.



Admin Account (Pre-created by the Designer)

The Admin account in the Stone Sales Management System is not created by normal users. Instead, it is pre-added directly into the database by the system designer during the initial setup. This guarantees that the system always has at least one authorized administrator who can manage the application from day one. The admin then uses these stored credentials to log in and access the Admin Dashboard, where they can control key management features such as employees, customers, stones, orders, archiving, and report generation.

This page contains a Quick Lookup panel in the center of the Admin Dashboard, allowing the admin to search and retrieve important system information quickly without moving between different pages. The lookup supports three search modes:

- Order: Enter an Order ID to display full order details (customer, items/quantities, status, and related assignment info).
- Employee: Search by Employee ID or name to show the employee's profile and their assigned orders.
- Stone: Search by Stone ID or name to view stone details such as price and related order information.
- Overall, this feature makes the dashboard more efficient by providing fast, direct access to key data from one place.

Quick Lookup

Search for Orders, Employees, or Stones

Order ▾ 2 Search Clear

Order Details

Order ID: 2 | Date: 2024-03-01 | Status: Pending | Total: \$180.00

Customer Information

ID: 2 | Name: Leen Jaber
Phone: 0594444444
Address: Gaza

Assigned Employee

ID: 2 | Name: Mohammad Qassem

Stone ID	Stone Name	Quantity	Unit Price	Subtotal
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Quick Lookup

Search for Orders, Employees, or Stones

Order ▾ 2 Search Clear

Stone ID	Stone Name	Quantity	Unit Price	Subtotal
2	White Granite	3	32.00	96.00
5	Limestone	2	18.20	36.40

This screenshot shows the Quick Lookup (Order mode) after the admin searches for Order ID = 2. Once the Search button is pressed, the system immediately displays a full summary of that order in one place:

- Order Details: Shows the basic order info (Order ID, date, current status, and total amount).
- Customer Information: Displays who placed the order, including the customer ID, name, phone number, and address.
- Assigned Employee: Shows which employee is responsible for handling this order (ID + name).
- Order Items Table (below): Lists the stones included in the order with Stone ID, Stone Name, Quantity, Unit Price, and Subtotal, so the admin can review exactly what was purchased and how the total is calculated.

the Quick Lookup (Order mode) is showing the items inside Order ID = 2 in a clear table at the bottom.

- Each row represents a stone included in the order.
- The table lists the key details: Stone ID, Stone Name, Quantity, Unit Price, and the calculated Subtotal for that item.
- In this example, the order contains White Granite and Limestone, with their quantities and prices displayed, so the admin can verify the order contents and costs quickly.
- So this section is basically the order breakdown (order details / line items) that confirms exactly what the customer ordered.

Quick Lookup

Search for Orders, Employees, or Stones

Stone ▾ black Marble

Search Clear

Stone Details

ID: 1 | Name: Black Marble | Type: Marble
Size: 30x30 | Price: \$25.50 | Stock: 40

Statistics

Total Orders: 2 | Total Quantity Sold: 6

Recent Orders (2)

Order ID	Customer	Quantity	Unit Price	Order Date	Status
1	Sara Hassan	2	25.50	2024-02-10	Completed
3	Sara Hassan	4	25.50	2024-01-22	Completed

In Stone mode, the Quick Lookup lets the admin search by Stone Name or Stone ID (here: Black Marble) and instantly see two parts:

- Stone Details: Displays the full stone info such as ID, name, type, size, unit price, and current stock.
- Statistics + Recent Orders: Shows quick sales insights like how many orders included this stone and the total quantity sold, then lists the most recent orders that purchased it (Order ID, customer, quantity, unit price, date, and status).

So this mode is perfect for checking a stone's inventory + sales history in one place without opening multiple pages.

The screenshot shows the 'Employees Management' section of the 'Stone Sales - Admin Dashboard'. On the left, there's a sidebar with a logo, the 'Stone Sales' brand name, and a 'Admin Panel' title. Below these are several navigation links: 'Dashboard', 'Employees' (which is highlighted), 'Customers', 'Stones', 'Orders', 'Custom Orders', 'Archive', 'Generate Report', and 'Logout'. The main content area has a heading 'Employees Management' and a sub-instruction 'View, add, edit, and remove employees'. It features a search bar with placeholder 'Search employees...' and a 'Search' button. A large table lists three employees with columns for Employee ID, Full Name, Phone, Address, Salary, Date Hired, and Actions (with 'Edit' and 'Delete' buttons). The table has 10 rows, though only the first three are fully visible.

Employee ID	Full Name	Phone	Address	Salary	Date Hired	Actions
1	Ahmad Ali Salem	0591111111	Ramallah	\$2500.00	2023-02-10	<button>Edit</button> <button>Delete</button>
2	Mohammad Omar Qassem	0593333333	Hebron	\$3200.00	2022-11-01	<button>Edit</button> <button>Delete</button>
3	Yousef Majed Awad	0595555555	Jerusalem	\$2800.00	2024-01-15	<button>Edit</button> <button>Delete</button>

This screen is the Employees Management page in the Admin Panel. It gives the admin full control over employee accounts in one place:

- View Employees: All employees are listed in a table with key details like Employee ID, Full Name, Phone, Address, Salary, and Date Hired.
- Search Employees: The search box at the top lets the admin quickly find a specific employee by typing a name/ID (or related info) instead of scrolling.
- Add Employee: The “+ Add Employee” button opens a form to register a new employee and save them into the database.
- Edit / Delete: In the Actions column, the admin can:
 - 1) Edit an employee’s information (update phone, address, salary, etc.)
 - 2) Delete an employee record when needed (with control from the admin side)

So overall, this page is the admin’s main hub for managing employee data efficiently (search, add, update, remove).

The screenshot shows the Stone Sales Admin Dashboard with the Employees section selected. An 'Add New Employee' modal is open, prompting the admin to enter employee details. The modal is divided into two main sections: 'USER ACCOUNT INFORMATION' and 'PERSONAL INFORMATION'. Both sections contain fields for Username, Password, and Confirm Password. The 'PERSONAL INFORMATION' section also includes fields for First Name, Middle Name, Last Name, Email, and Phone Number. A 'Save Employee' button is located at the bottom of the modal.

The second screenshot of the 'Add New Employee' modal shows an additional 'EMPLOYMENT INFORMATION' section. This section contains fields for Salary and Date Hired. The rest of the form structure, including the 'USER ACCOUNT INFORMATION' and 'PERSONAL INFORMATION' sections, remains the same as the first screenshot.

Add New Employee Form (Admin)

This window is used by the admin to create a brand-new employee account in one step. It collects both the login credentials and the employee personal/work details, so the employee can immediately log in and use the system.

1) User Account Information

- Username (example: sholi) → the unique login name for the employee.
- Password + Confirm Password → the system checks that both match, and it also provides an eye icon to show/hide the password while typing.

2) Personal Information

- First / Middle / Last Name → stored separately (so the system can handle names properly).
- Email + Phone Number + Address → contact details for the employee profile.

3) Employment Information

- Salary → employee's salary value.
- Date Hired → selected using a date picker for accuracy.

Buttons

- Save Employee → validates inputs, then inserts the new employee into the database.
- Cancel → closes the form without saving.

Validation & Protection (Important)

- Prevents duplicate usernames (can't create two accounts with the same username).
- Password must be at least 6 characters (short passwords are rejected).
- Email must be in a valid format (must contain a standard structure like name@domain.com).
- Confirm Password must match (prevents typing mistakes before saving).

The screenshot shows a dark-themed user interface for managing employees. On the left, there is a list of existing employees with columns for Employee ID, Name, and Action buttons (Edit and Delete). In the center, a modal window titled "PERSONAL INFORMATION" is open, prompting the admin to enter employee details. The "First Name" field contains "sholi sholi sholi". The "Email" field contains "sholi@gmail.com". The "Phone Number" field contains "1234567890". The "Address" field contains "kjdfs". Below this section is a "EMPLOYMENT INFORMATION" group with fields for "Salary" (set to "123") and "Date Hired" (set to "12/27/2025"). At the bottom of the modal are "Save Employee" and "Cancel" buttons. A success message box titled "Employee Added" is displayed over the modal, stating "Employee sholi sholi sholi has been successfully added to the system." On the right, another list of employees shows a newly added entry with Employee ID 4, Name "sholi sholi sholi", Salary "\$123.00", Date Hired "2025-12-27", and Action buttons (Edit and Delete).

Employee ID	Name	Action
1	Ahmad	Edit Delete
2	Moham	Edit Delete
3	Yousef	Edit Delete
4	sholi sholi sholi	\$123.00 Edit Delete

Employee Added (Success Message)

After the admin fills the Add New Employee form and clicks Save Employee, the system runs all validations and then inserts the new employee into the database.

4	sholi sholi sholi	1234567890	kjdfs	\$123.00	2025-12-27	<button>Edit</button>	<button>Delete</button>
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The screenshot displays two views of the 'Edit Employee' form within the Stone Sales Admin Dashboard. Both views show a table of existing employees on the right.

User Account Information (Top Screenshot):

Employee ID	Name	Salary	Date Hired	Actions
1	Ahmad	2023-02-10	<button>Edit</button>	<button>Delete</button>
2	Moham	2022-11-01	<button>Edit</button>	<button>Delete</button>
3	Yousef	2024-01-15	<button>Edit</button>	<button>Delete</button>
4	sholi sh	2025-12-27	<button>Edit</button>	<button>Delete</button>

Personal Information (Bottom Screenshot):

Employee ID	Name	Salary	Date Hired	Actions
1	Ahmad	2023-02-10	<button>Edit</button>	<button>Delete</button>
2	Moham	2022-11-01	<button>Edit</button>	<button>Delete</button>
3	Yousef	2024-01-15	<button>Edit</button>	<button>Delete</button>
4	sholi sh	2025-12-27	<button>Edit</button>	<button>Delete</button>

Edit Employee Form

The Edit button opens a form similar to "Add Employee," but it loads the employee's existing data automatically so the admin can update it quickly.

The admin can modify account fields (if allowed) and personal/employment details such as name, email, phone, address, salary, and hire date, then click Save Employee to apply the changes.

The screenshot shows a modal dialog titled "USER ACCOUNT INFORMATION" with the message "Employee Updated" and "Success". It also displays the message "Employee Ahmaddddd Ali Salem has been successfully updated." A button labeled "OK" is visible at the bottom right of the dialog. Below the dialog, the "PERSONAL INFORMATION" section of the form is partially visible, showing the first name "Ahmaddddd". At the bottom, a table lists employee details with one row selected.

Employee ID	Full Name	Phone	Address	Salary	Date Hired	Actions
1	Ahmaddddd Ali Salem	0591111111	Ramallah	\$2500.00	2023-02-10	<button>Edit</button> <button>Delete</button>

When the admin finishes editing an employee and clicks Save, the system updates the record in the database and immediately shows a confirmation dialog (“Employee Updated – Success”) to confirm the operation was completed. After closing the message, the Employees table refreshes automatically, so the updated employee information (like the new full name) appears directly in the list without needing to reopen the page.

The screenshot shows a modal dialog titled "Delete Employee: Ahmaddddd Ali Salem" with the message "This action cannot be undone". It contains a warning section: "⚠ WARNING: This will permanently delete:" followed by a bulleted list: "• Employee record (ID: 1)", "• Associated User account", and "• All related data". Below this, it says "This action CANNOT be undone!" and "Are you sure you want to continue?". At the bottom are "Cancel" and "Delete" buttons. In the background, the main Employees Management page is visible, showing a table of employees with one row selected.

When the admin clicks Delete on an employee, the system shows a confirmation popup to prevent accidental deletion. It clearly warns that deleting the employee is permanent and will remove the employee record (and any linked account/related data). The admin must choose Cancel to stop, or Delete to confirm and complete the removal.

Employees Management

View, add, edit, and remove employees

+ Add Employee

Employee ID	Full Name	Phone	Address	Salary	Date Hired	Actions
2	Mohammad Omar Qassem	0593333333	Hebron	\$3200.00	2022-11-01	<button>Edit</button> <button>Delete</button>
3	Yousef Majed Awad	0595555555	Jerusalem	\$2800.00	2024-01-15	<button>Edit</button> <button>Delete</button>
4	sholi sholi sholi	1234567890	kjdfs	\$123.00	2025-12-27	<button>Edit</button> <button>Delete</button>

Employee Deleted Successfully

Employee: Ahmadddd Ali Salem
Employee ID: 1

- ✓ Employee record removed
- ✓ User account removed
- ✓ All orders unassigned from this employee

Now the admin can reassign these orders to another employee.

OK

After confirming the deletion, the system shows a success confirmation popup ("Employee Deleted Successfully") that clearly states which employee was removed (name + ID). It also explains what happened behind the scenes: the employee record and the linked user account were deleted, and any orders that were assigned to that employee were automatically unassigned so the admin can reassign them later.

In the table behind the popup, you can see the result immediately: the deleted employee no longer appears in the Employees list, meaning the deletion was applied successfully.

The screenshot shows the 'Customers' section of the Stone Sales Admin Dashboard. On the left, a sidebar lists navigation options: Dashboard, Employees, Customers (which is selected and highlighted in yellow), Stones, Orders, Custom Orders, Archive, Generate Report, and Logout. The main content area has a title 'Customers' and a subtitle 'View registered customers'. It features a search bar with placeholder 'Search customers...' and a 'Search' button. Below is a table with four columns: Customer ID, Full Name, Phone Number, and Address. Two rows of data are visible: one for Sara Kamal Hassan (Customer ID 1) with phone 0592222222 and address Nablus; and another for Leen Amin Jaber (Customer ID 2) with phone 0594444444 and address Gaza.

Customer ID	Full Name	Phone Number	Address
1	Sara Kamal Hassan	0592222222	Nablus
2	Leen Amin Jaber	0594444444	Gaza

This screen is the Customers Management page for the admin. It displays a full list of all customers who have registered in the system in a clear table showing the Customer ID, full name, phone number, and address.

At the top, the admin can use the search box to quickly find a specific customer (by name or ID) without scrolling through the entire list.

The screenshot shows the same table from the previous screenshot, but the rows are sorted by Customer ID. The first row now contains Leen Amin Jaber (Customer ID 2) with phone 0594444444 and address Gaza. The second row contains Sara Kamal Hassan (Customer ID 1) with phone 0592222222 and address Nablus.

Customer ID	Full Name	Phone Number	Address
2	Leen Amin Jaber	0594444444	Gaza
1	Sara Kamal Hassan	0592222222	Nablus

In our system, all data tables support sorting to make it easier to view information.

When the admin clicks on a column header (like Customer ID), the table can be sorted in three modes:

Ascending (ASC): smallest → largest / A → Z

Descending (DESC): largest → smallest / Z → A

Normal: returns to the original/default order

This feature helps the user quickly organize records without doing a manual search.

The screenshot shows the 'Stone Sales - Admin Dashboard' window. On the left is a sidebar with a logo and navigation links: Dashboard, Employees, Customers, Stones (which is highlighted), Orders, Custom Orders, Archive, and a 'Generate Report' button. At the bottom of the sidebar is a 'Logout' button. The main content area is titled 'Stones Catalog' and subtitle 'Manage stone types, prices, stock, and images'. It features a search bar with 'Search stones...' and a 'Search' button, and a 'Add Stone' button. Below is a table with columns: Stone ID, Name, Type, Size, Price Per Unit, Quantity in Stock, Image, and Actions (Edit and Delete buttons). The table contains five rows of stone data:

Stone ID	Name	Type	Size	Price Per Unit	Quantity in Stock	Image	Actions
1	Black Marble	Marble	30x30	\$25.50	40		Edit Delete
2	White Granite	Granite	40x40	\$32.00	30		Edit Delete
3	Sandstone	Sandstone	50x50	\$15.00	50		Edit Delete
4	Basalt Stone	Basalt	25x25	\$28.75	20		Edit Delete
5	Limestone	Limestone	30x60	\$18.20	60		Edit Delete

This Stones Catalog page is where the admin manages the full stone inventory in the system. It shows a clear table containing each stone's ID, name, type, size, unit price, stock quantity, and even a preview image to visually identify the material.

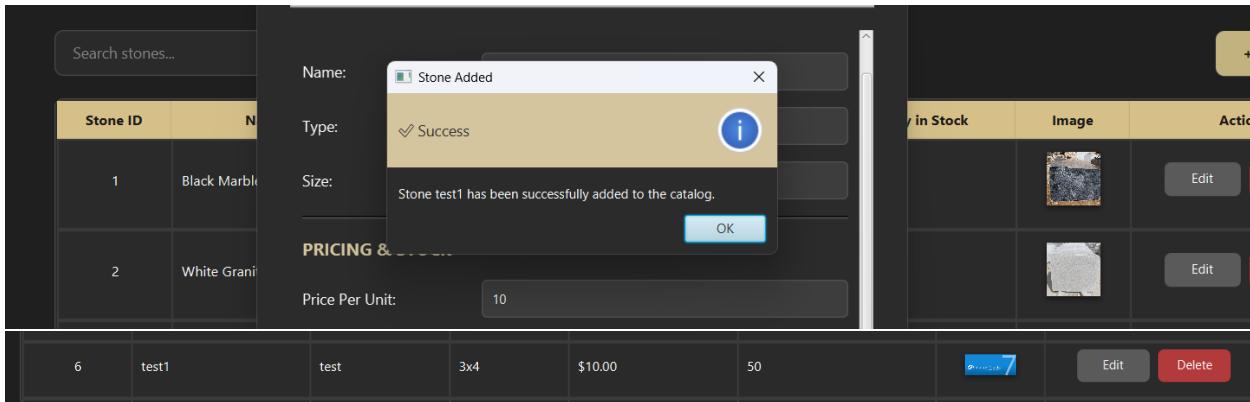
From this page, the admin can:

- Search for a specific stone using the search bar.
- Add a new stone using the “+ Add Stone” button.
- Edit an existing stone (update price, size, stock, or image).
- Delete a stone record when it's no longer available.

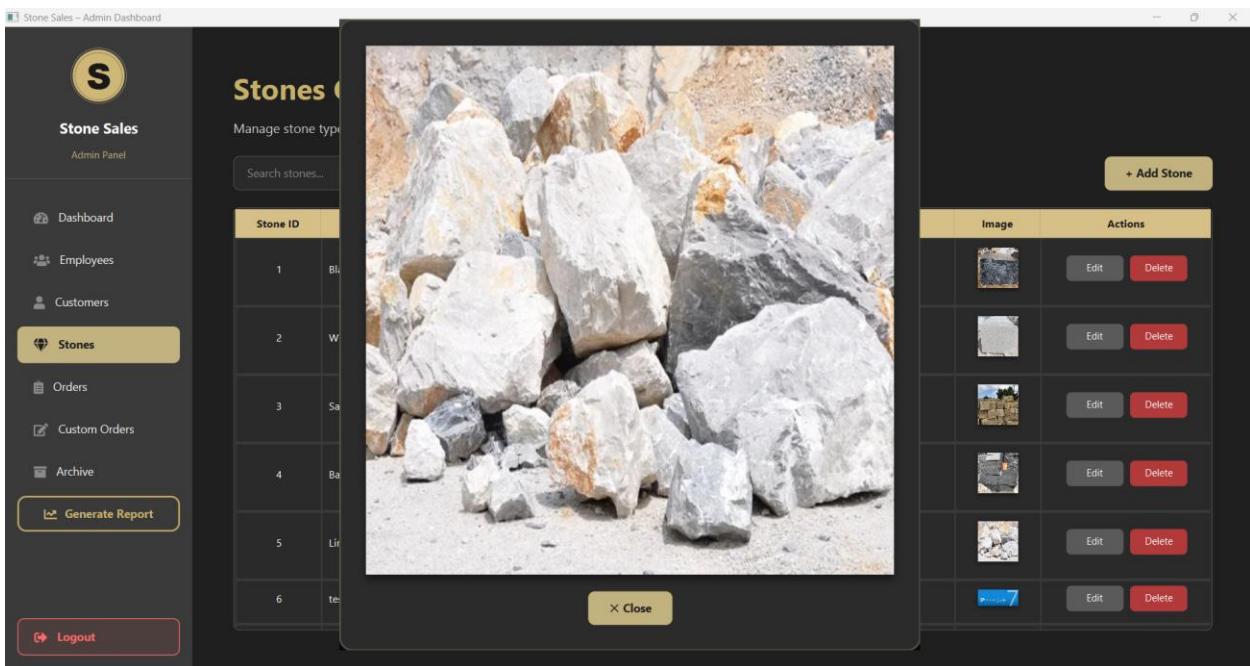
The screenshot displays two windows from the Stone Sales Admin Dashboard. The main window shows a catalog of stones with columns for Name, Type, Size, Price Per Unit, and Quantity in Stock. A modal window titled 'Add New Stone' is open, prompting for stone details like Name, Type, Size, and Price. Below the input fields is an optional 'IMAGE (Optional)' section with a 'Browse...' button. A file explorer dialog is overlaid on the modal, showing a folder path of 'Pictures > Screenshots' containing several recent screenshots. The 'Screenshot 2025-12-19 075405.png' file is selected.

Add New Stone (with Image)

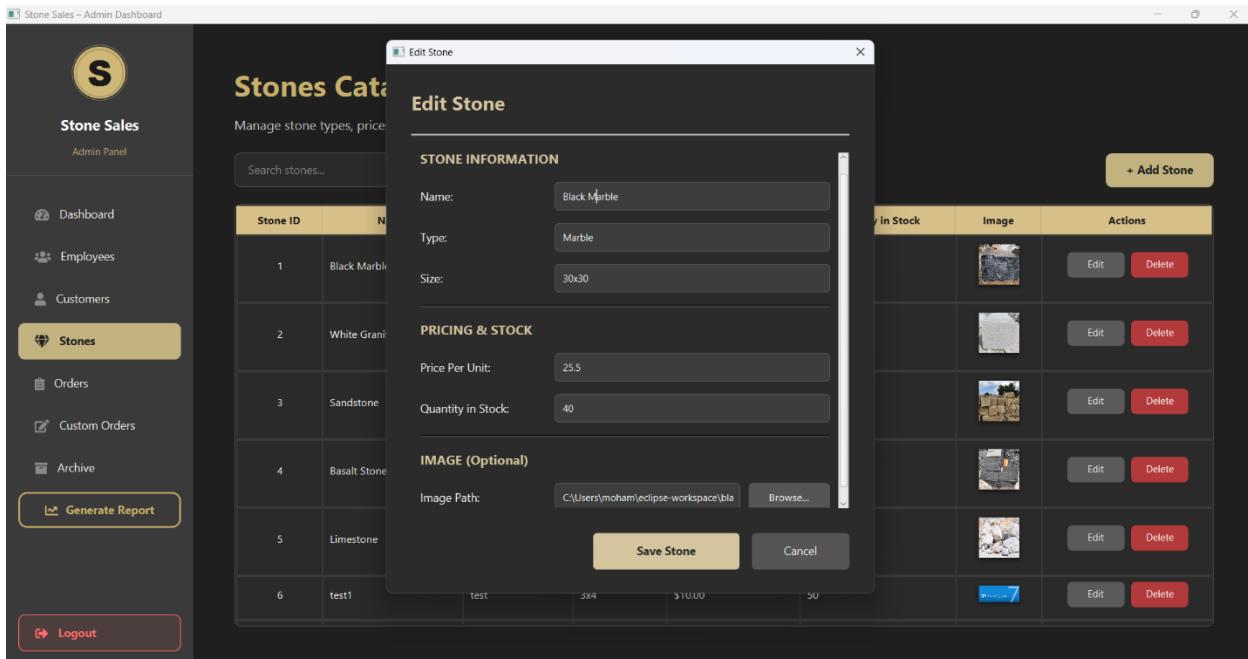
When the admin clicks Add Stone, a form opens to enter stone information (name/type/size, price, stock). The image is optional: pressing Browse opens the file chooser so the admin can select an image from the computer, and the stone image is then stored/displayed in the catalog table.



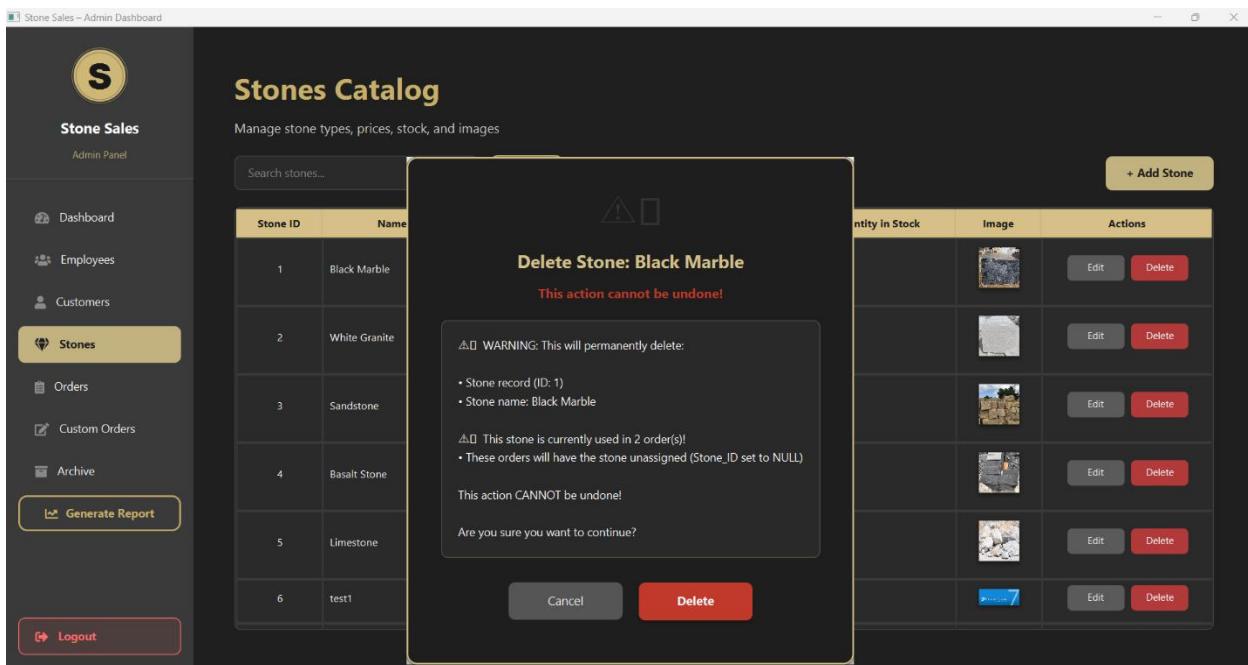
After clicking Save Stone, the system shows a “Stone Added – Success” message confirming that the new stone (test1) was added successfully to the catalog. Once you press OK, the stones table updates immediately, and you can see the new record added as a new row (with its details like ID, name, type, size, price, stock, and the image) plus the Edit/Delete buttons for managing it later.



In this screen, the admin can preview stone images in a larger view. Each stone image in the table is clickable (hoverable/previewable), so when the admin clicks on the small thumbnail, the system opens a popup image viewer showing the same photo in a bigger size for clearer details, with a Close button to return to the stones list.



This window appears when the admin clicks Edit for a stone. It loads the current stone data (name, type, size, price per unit, stock quantity, and optional image path) so the admin can modify any field, then save the updated information using Save Stone (or cancel).



This is a confirmation dialog shown when the admin clicks Delete. It warns that deletion is permanent, shows which stone will be removed (ID and name), and also alerts that the stone is used in existing orders—so those orders will have the stone unassigned (Stone_ID set to NULL). The admin can either Cancel or confirm by pressing Delete.

Stones Catalog

Manage stone types, prices, stock, and images

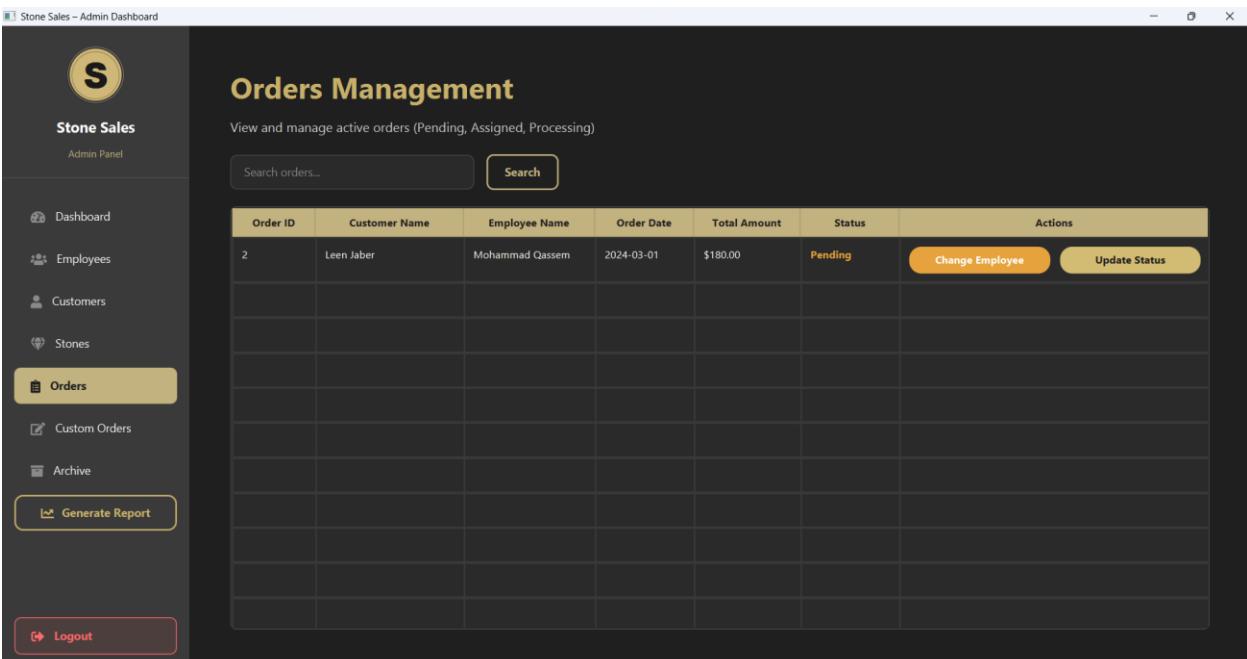


A screenshot of the Stones Catalog page. At the top is a search bar containing the letter "b" and a "Search" button. To the right is a yellow "Add Stone" button. Below is a table with columns: Stone ID, Name, Type, Size, Price Per Unit, Quantity in Stock, Image, and Actions. Two rows are shown: one for Black Marble (Marble, 30x30, \$25.50, 40) and one for Basalt Stone (Basalt, 25x25, \$28.75, 20). Each row has an "Edit" button and a "Delete" button.

Stone ID	Name	Type	Size	Price Per Unit	Quantity in Stock	Image	Actions
1	Black Marble	Marble	30x30	\$25.50	40		<button>Edit</button> <button>Delete</button>
4	Basalt Stone	Basalt	25x25	\$28.75	20		<button>Edit</button> <button>Delete</button>

In this Stones Catalog page, there is a search bar at the top with a Search button (same idea exists in the other pages).

Once the admin starts typing even one character (like “b” in the image), the system automatically filters/searches the table results in real time—so you can quickly find matching stones without needing to press the button (the button is just an extra way to trigger the search).

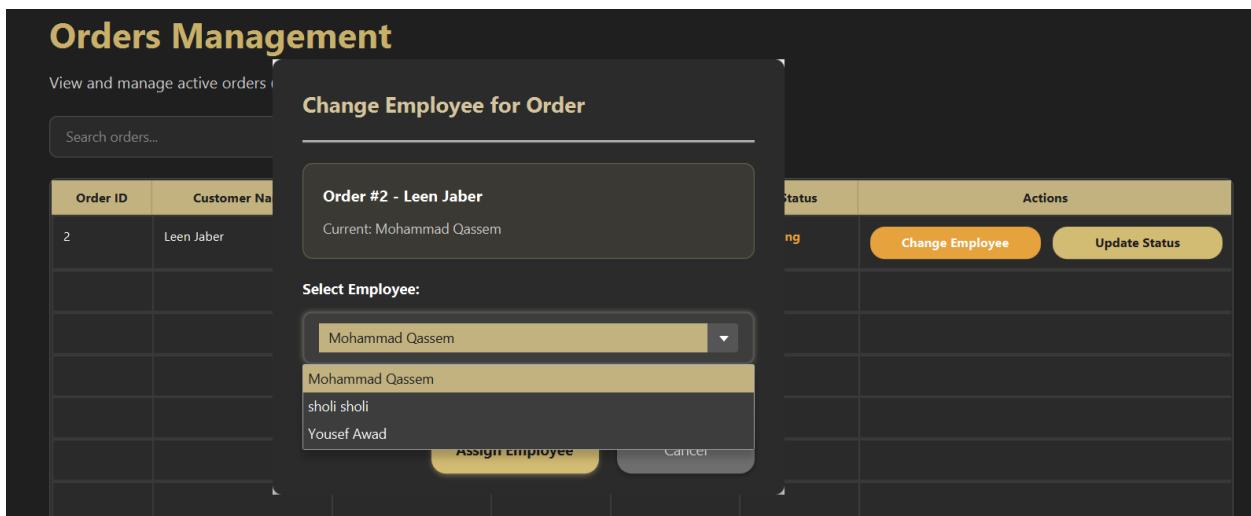


A screenshot of the Orders Management page. On the left is a sidebar with a logo, "Stone Sales" title, and "Admin Panel". It has a navigation menu with "Dashboard", "Employees", "Customers", "Stones", "Orders" (which is highlighted in yellow), "Custom Orders", "Archive", and "Generate Report". At the bottom are "Logout" and "Logout" buttons. The main area has a title "Orders Management" and a subtitle "View and manage active orders (Pending, Assigned, Processing)". It features a search bar with "Search orders..." and a "Search" button. Below is a table with columns: Order ID, Customer Name, Employee Name, Order Date, Total Amount, Status, and Actions. One row is shown for Order ID 2, Customer Leen Jaber, Employee Mohammad Qassem, Date 2024-03-01, Total \$180.00, Status Pending. The Actions column contains "Change Employee" and "Update Status" buttons.

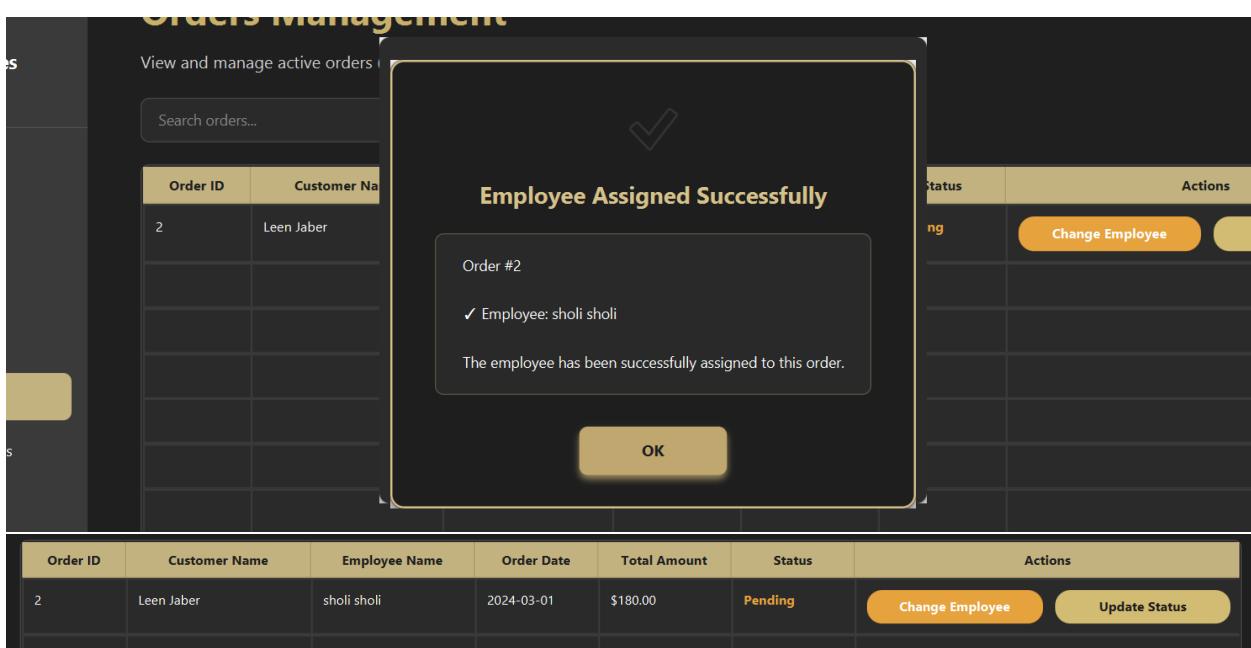
Order ID	Customer Name	Employee Name	Order Date	Total Amount	Status	Actions
2	Leen Jaber	Mohammad Qassem	2024-03-01	\$180.00	Pending	<button>Change Employee</button> <button>Update Status</button>

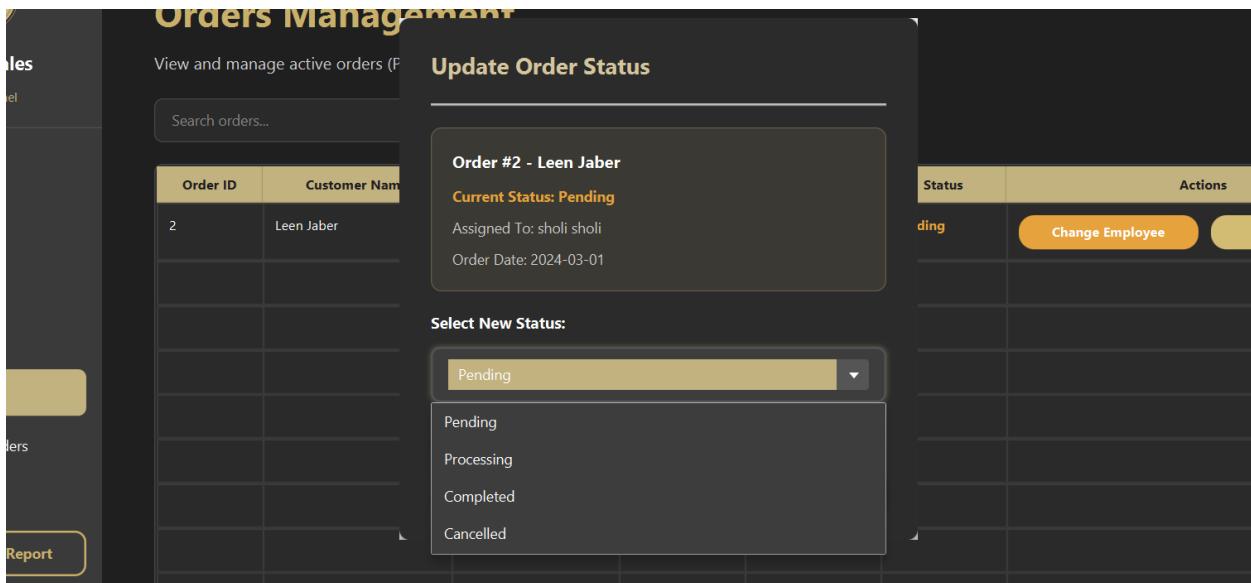
This is the Orders Management page in the admin dashboard, used to view and manage active orders (such as Pending, Assigned, and Processing). At the top, there is a search bar that helps the admin quickly find a specific order. The main table lists each order with key details like Order ID, Customer Name, Assigned Employee, Order Date, Total Amount, and Status. In the Actions column, the admin can manage the selected order by using Change Employee to reassign the order to another employee, or Update Status to change the order's current state (e.g., from Pending to another status).

If an order doesn't have an employee assigned yet, the action button will appear as “Assign Employee” instead of “Change Employee”.



This image shows the “Change Employee for Order” window that appears when the admin clicks Change Employee on an order. It displays the selected order details (Order #2 – Leen Jaber) and the currently assigned employee (Mohammad Qassem). Below that, the admin can choose a new employee from a drop-down list (e.g., Mohammad Qassem, sholi sholi, Yousef Awad) and then confirm the change using Assign Employee, or cancel the action with Cancel.





When you confirm assigning/changing the employee for an order, the system shows a success popup saying “Employee Assigned Successfully” and it mentions the order number (#2) and the selected employee (sholi sholi).

After you click OK, the Orders table updates immediately: the Employee Name column for Order ID 2 changes to sholi sholi, and the action button remains Change Employee (since the order is now assigned).

Order ID	Customer Name	Employee Name	Order Date	Total Amount	Status	Actions
2	Leen Jaber	sholi sholi	2024-03-01	\$180.00	Processing	Change Employee Update Status

A confirmation popup appears titled “Order Status Updated”, telling you that Order #2 was successfully updated and that the status changed from Pending → Processing (with an OK button to close it).

After confirming, the Orders table reflects the change immediately: the same order now shows the status Processing (highlighted in blue), while the action buttons (Change Employee and Update Status) remain available for further management.

Orders Management

View and manage active orders (F)

Order ID	Customer Name
2	Leen Jaber
3	Sara Hassan
4	Yousef Awad
5	sholi sholi
6	Unassigned
7	Unassigned
8	Unassigned
9	Unassigned
10	Unassigned
11	Unassigned
12	Unassigned
13	Unassigned
14	Unassigned
15	Unassigned
16	Unassigned
17	Unassigned
18	Unassigned
19	Unassigned
20	Unassigned
21	Unassigned
22	Unassigned
23	Unassigned
24	Unassigned
25	Unassigned
26	Unassigned
27	Unassigned
28	Unassigned
29	Unassigned
30	Unassigned
31	Unassigned
32	Unassigned
33	Unassigned
34	Unassigned
35	Unassigned
36	Unassigned
37	Unassigned
38	Unassigned
39	Unassigned
40	Unassigned

Update Order Status

Order #2 - Leen Jaber

Current Status: Processing

Assigned To: sholi sholi

Order Date: 2024-03-01

Select New Status:

Completed
▼

Pending

Processing

Completed

Cancelled

Change Employee

Stone Sales - Admin Dashboard

— ⚙ X

Stone Sales
 Admin Panel

- Dashboard
- Employees
- Customers
- Stones
- Orders
- Custom Orders
- Archive
- Generate Report
- Logout

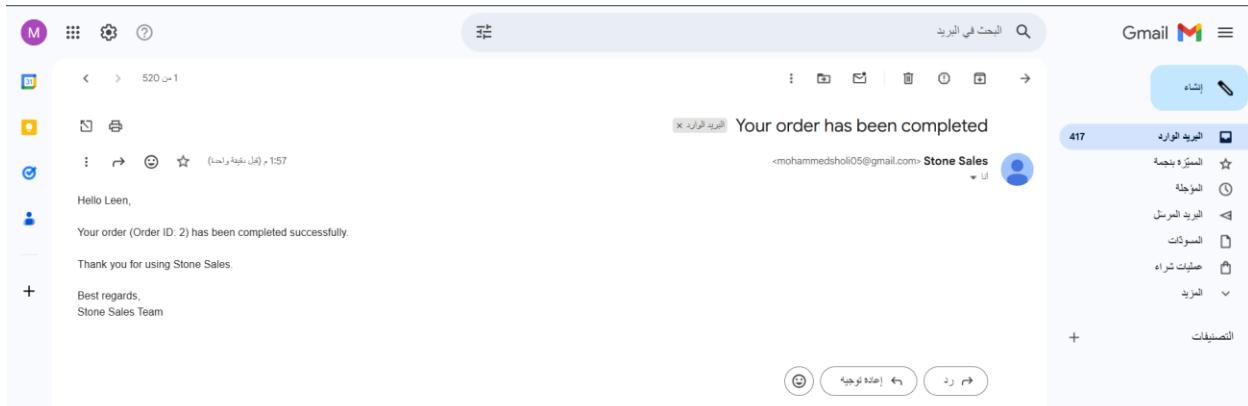
Order Archive

View completed and canceled orders (read-only)

Search archived orders... Search

Order ID	Customer Name	Employee Name	Order Date	Total Amount	Status
3	Sara Hassan	Yousef Awad	2024-01-22	\$320.00	Completed
2	Leen Jaber	sholi sholi	2024-03-01	\$180.00	Completed
1	Sara Hassan	Unassigned	2024-02-10	\$250.00	Completed
4	Yousef Awad	sholi sholi	2024-02-15	\$120.00	Completed
5	sholi sholi	Unassigned	2024-02-18	\$150.00	Completed
6	Unassigned	Unassigned	2024-02-22	\$100.00	Completed
7	Unassigned	Unassigned	2024-02-25	\$140.00	Completed
8	Unassigned	Unassigned	2024-02-28	\$160.00	Completed
9	Unassigned	Unassigned	2024-03-01	\$180.00	Completed
10	Unassigned	Unassigned	2024-03-04	\$200.00	Completed
11	Unassigned	Unassigned	2024-03-07	\$220.00	Completed
12	Unassigned	Unassigned	2024-03-10	\$240.00	Completed
13	Unassigned	Unassigned	2024-03-13	\$260.00	Completed
14	Unassigned	Unassigned	2024-03-16	\$280.00	Completed
15	Unassigned	Unassigned	2024-03-19	\$300.00	Completed
16	Unassigned	Unassigned	2024-03-22	\$320.00	Completed
17	Unassigned	Unassigned	2024-03-25	\$340.00	Completed
18	Unassigned	Unassigned	2024-03-28	\$360.00	Completed
19	Unassigned	Unassigned	2024-03-31	\$380.00	Completed
20	Unassigned	Unassigned	2024-04-03	\$400.00	Completed
21	Unassigned	Unassigned	2024-04-06	\$420.00	Completed
22	Unassigned	Unassigned	2024-04-09	\$440.00	Completed
23	Unassigned	Unassigned	2024-04-12	\$460.00	Completed
24	Unassigned	Unassigned	2024-04-15	\$480.00	Completed
25	Unassigned	Unassigned	2024-04-18	\$500.00	Completed
26	Unassigned	Unassigned	2024-04-21	\$520.00	Completed
27	Unassigned	Unassigned	2024-04-24	\$540.00	Completed
28	Unassigned	Unassigned	2024-04-27	\$560.00	Completed
29	Unassigned	Unassigned	2024-04-30	\$580.00	Completed
30	Unassigned	Unassigned	2024-05-03	\$600.00	Completed
31	Unassigned	Unassigned	2024-05-06	\$620.00	Completed
32	Unassigned	Unassigned	2024-05-09	\$640.00	Completed
33	Unassigned	Unassigned	2024-05-12	\$660.00	Completed
34	Unassigned	Unassigned	2024-05-15	\$680.00	Completed
35	Unassigned	Unassigned	2024-05-18	\$700.00	Completed
36	Unassigned	Unassigned	2024-05-21	\$720.00	Completed
37	Unassigned	Unassigned	2024-05-24	\$740.00	Completed
38	Unassigned	Unassigned	2024-05-27	\$760.00	Completed
39	Unassigned	Unassigned	2024-05-30	\$780.00	Completed
40	Unassigned	Unassigned	2024-06-02	\$800.00	Completed

If the admin updates an order's status to Completed, the order will be removed from the active Orders list and automatically moved to the Archive section, where completed orders are stored for later viewing and reporting.



Also, when an order is marked as Completed and moved to the Archive, the system sends an email notification to the customer if the customer has a valid email saved in their profile information.

ID	Customer	Stone Type	Size	...	Description	Status	Requested On	Actions
No custom orders								

This screenshot shows the Custom Stone Orders page in the admin panel. It is used to review special stone requests submitted by customers that are not available as regular items in the shop. The table is prepared to list each request with details like customer name, stone type, size, description, status, request date, and actions (approve/reject), and in this example the list is currently empty (no custom orders yet).

(I will talk more about it when I explain the customer account)

The screenshot shows the 'Order Archive' section of the Stone Sales Admin Dashboard. The left sidebar has a dark theme with gold-colored icons and text. It includes links for Dashboard, Employees, Customers, Stones, Orders, Custom Orders, and Archive (which is highlighted with a yellow background). Below these are buttons for 'Generate Report' and 'Logout'. The main content area has a light gray header with the title 'Order Archive' and a subtitle 'View completed and canceled orders (read-only)'. It features a search bar with placeholder text 'Search archived orders...' and a 'Search' button. Below the search area is a table with six columns: Order ID, Customer Name, Employee Name, Order Date, Total Amount, and Status. The table contains three rows of data.

Order ID	Customer Name	Employee Name	Order Date	Total Amount	Status
3	Sara Hassan	Yousef Awad	2024-01-22	\$320.00	Completed
2	Leen Jaber	sholi sholi	2024-03-01	\$180.00	Completed
1	Sara Hassan	Unassigned	2024-02-10	\$250.00	Completed

This screenshot shows the Order Archive page in the admin dashboard. It is a read-only section used to view finished orders (completed/canceled) after they are removed from the active orders list. The page includes a search bar to find archived orders, and a table that displays key details such as Order ID, Customer Name, Employee Name (or Unassigned), Order Date, Total Amount, and the final Status (shown in green as Completed).

Stone Sales — Admin Dashboard Report

Generated on: 2025-12-27 14:07

Overview

Employees

3

Customers

2

Total Orders

3

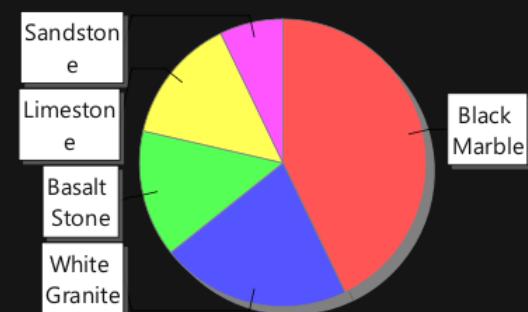
Total Sales

\$ 750.00

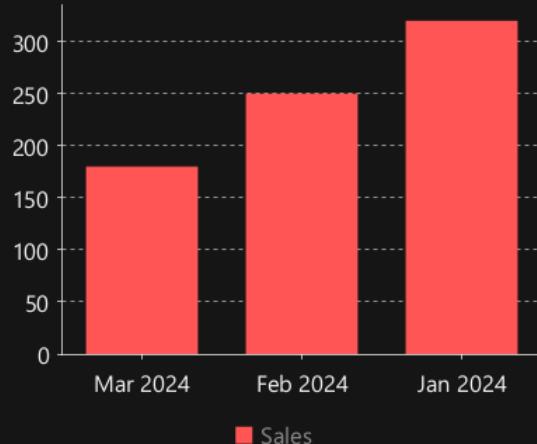
Recent Orders

ID	Customer	Status	Date	Total
2	Leen Jaber	Completed	2024-03-01	\$ 180.00
1	Sara Hassan	Completed	2024-02-10	\$ 250.00
3	Sara Hassan	Completed	2024-01-22	\$ 320.00

Sales Insights



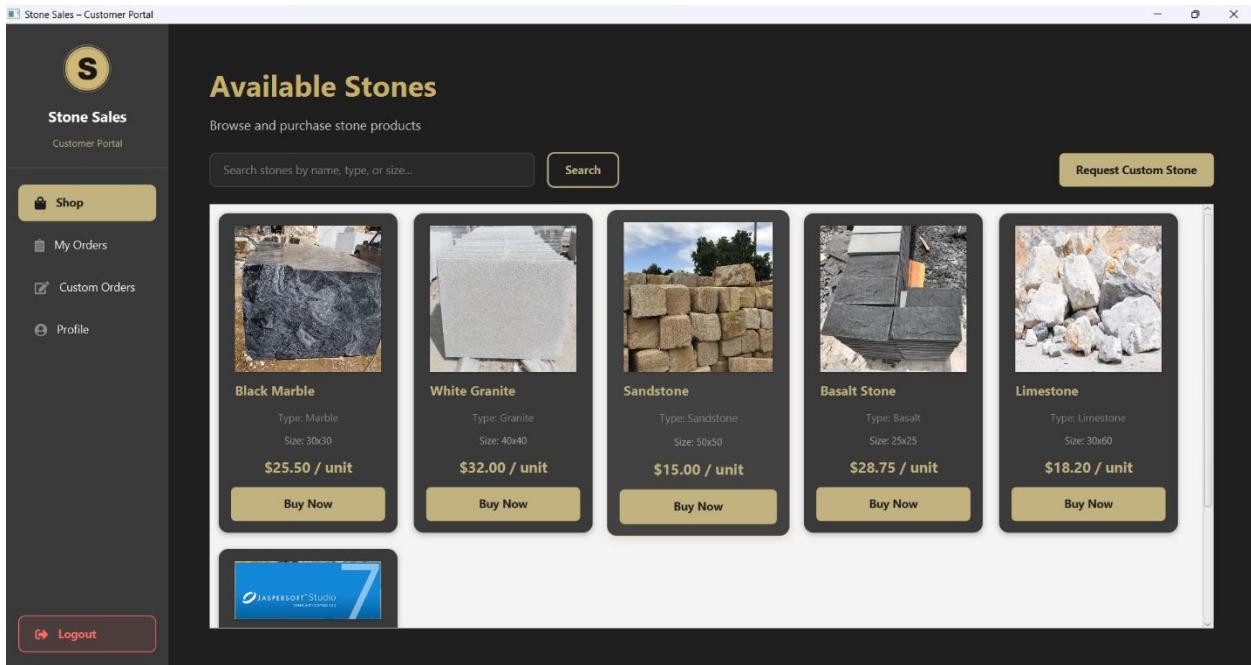
● Black Marble ● White Granite ● Basalt Stone
● Limestone ● Sandstone



These screenshots show the Jasper “Admin Dashboard Report” that appears when the admin clicks Generate Report. At the top, the report displays the generation date/time, then an Overview section with quick statistics (number of employees, customers, total orders, and total sales). Below that, Recent Orders lists the latest orders in a table (order ID, customer name,

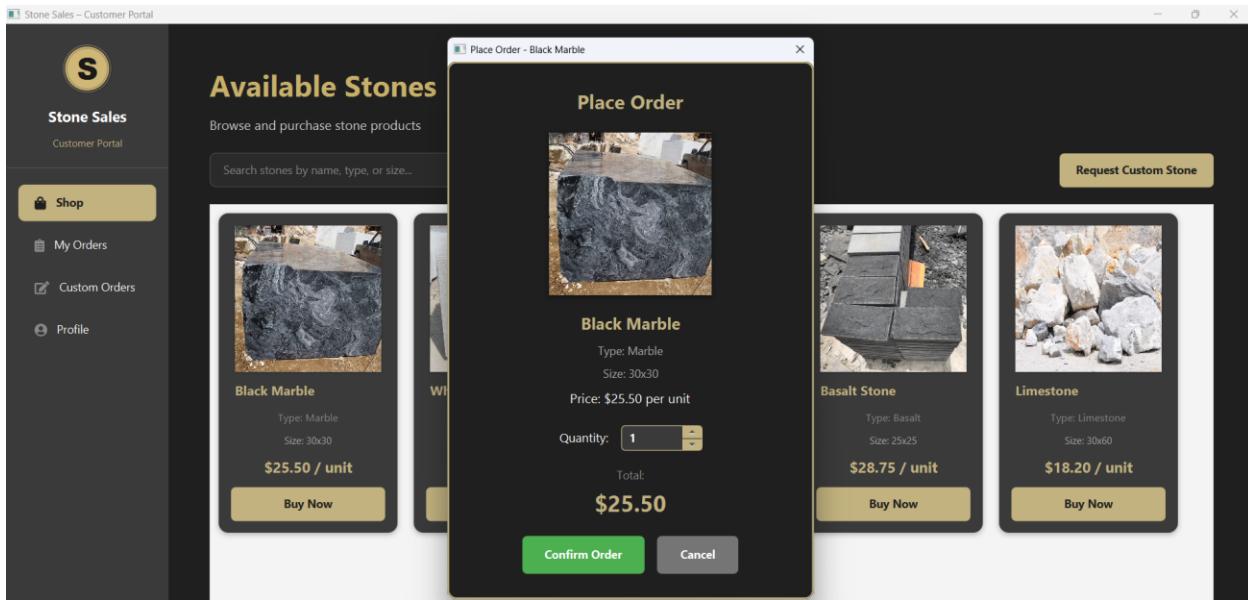
status, date, and total). Finally, the Sales Insights section visualizes sales data using a pie chart (sales distribution by stone type, مثل Black Marble, White Granite, etc.) and a bar chart showing monthly sales totals across different months.

On the Admin Dashboard, the Logout button (bottom-left) is used to safely exit the admin session. When the admin clicks Logout, the system returns to the Login screen, so the user can sign in again—this time using a Customer account to access the customer-side features instead of the admin panel.



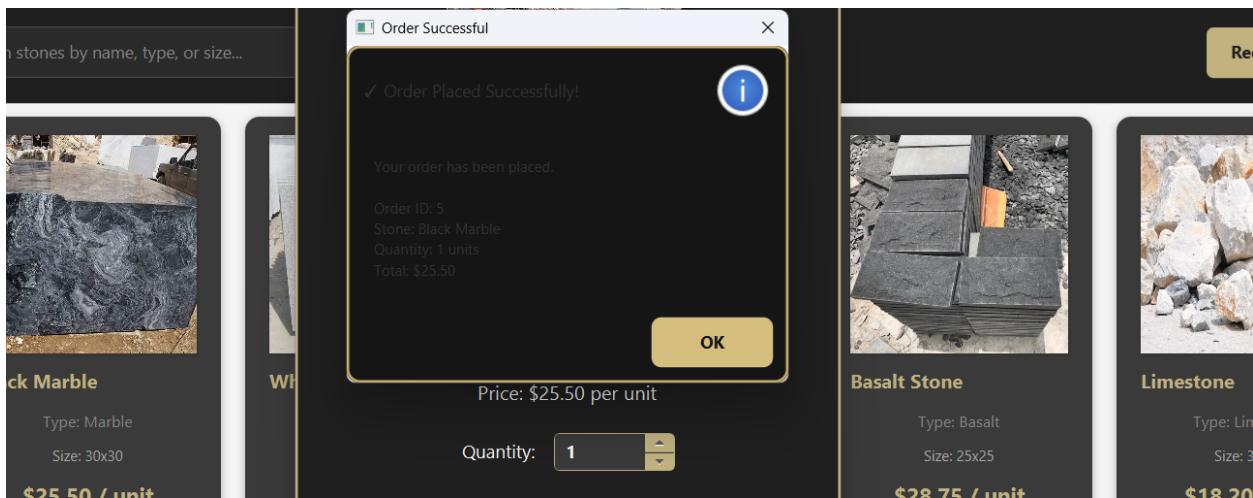
This screen is the Customer Portal – Shop page where customers can browse and purchase stones.

- Left sidebar navigation: quick access to Shop, My Orders, Custom Orders, and Profile, plus a Logout button at the bottom.
- Top area: page title “Available Stones”, a search bar + Search button to find stones by name/type/size, and a Request Custom Stone button for stones that are not available in the catalog.
- Main content (center): a scrollable list of stone cards. Each card shows the stone image, name, type, size, price per unit, and a Buy Now button to purchase the selected stone.



This is the Place Order window that appears when the customer clicks Buy Now to create a normal order from the available stones in the shop.

- It displays the selected stone details: image, name (Black Marble), type, size, and price per unit.
- The customer can choose the quantity using the selector.
- The system allows the quantity to increase only up to the available stock for that stone (it cannot exceed what is in stock).
- The Total value is calculated automatically based on: quantity × price per unit.
- Finally, the customer can finish the order by clicking Confirm Order, or cancel the process with Cancel.



View your order history and track status						
Order ID	Stone Name	Quantity	Order Date	Total Amount	Status	Actions
5	Leen Jaber	3	2025-12-27	\$25.50	Pending	<button>Cancel Order</button>

Here is the order

The screenshot shows the Stone Sales Customer Portal interface. On the left, there's a sidebar with a logo, 'Stone Sales', 'Customer Portal', 'Shop' (which is highlighted), 'My Orders', 'Custom Orders', and 'Profile'. The main area displays a grid of stone products: 'Black Marble' (Type: Marble, Size: 30x30, \$25.50 / unit), 'Salt Stone' (Type: Basalt, Size: 25x25, \$28.75 / unit), and 'Limestone' (Type: Limestone, Size: 30x60, \$18.20 / unit). A modal window titled 'Request Custom Stone' is open in the center. It contains fields for 'Stone Type' (with placeholder 'e.g., Marble, Granite, Quartz'), 'Size' (placeholder 'e.g., 12x24 inches, 30x60 cm'), 'Quantity' (set to 1), and 'Description' (placeholder 'Describe the stone you need (color, pattern, finish, etc.)'). At the bottom of the modal are 'Submit Request' and 'Cancel' buttons.

This screenshot shows the “Request Custom Stone” form in the Customer Portal. It lets the customer submit a custom order for a stone that is not available in the catalog (or when the available quantity is not enough).

The customer fills in:

- Stone Type (required)
- Size (required)
- Quantity (required)
- Description (required) to explain details like color/finish/pattern
- Then they can click Submit Request to send it, or Cancel to close the form.

The screenshot shows the Stone Sales Admin Dashboard. A modal window titled "Success" displays a green checkmark and the message "Custom order request submitted ...". Below the modal, there is a form with fields for "Size" (5), "Qty" (6), and "Description *" (i need it to my home). To the left, there's a sidebar with a "Custom Orders" button highlighted. On the right, there are images of stones: a dark grey marble slab labeled "Marble" and "Type: Marble", and a stack of basalt stones labeled "salt Stone" and "Type: Basalt".

ID	Customer	Stone Type	Size	Qty	Description	Status	Requested On	Actions
1	Leen Jaber	ds	3x5	6	for my home	Pending	Dec 27, 2025 15:50	<button>Approve & Create Order</button> <button>Reject</button>

Custom Stone Orders

Review and approve/reject custom stone requests from customers

ID	Customer	Stone Type	Size	Qty	Description	Status	Requested On	Actions
1	Leen Jaber	ds	3x5	6	for my home	Converted	Dec 27, 2025 15:50	

When a customer submits a custom stone request (a stone that isn't available in the catalog or the quantity isn't enough), it is automatically sent to the Admin → Custom Orders page. There, the admin can review the request details (type, size, quantity, description, and date) and then either Reject it or Approve & Create Order to convert it into a normal order in the system. After approval, the request status changes from Pending to Converted.

Orders Management

View and manage active orders (Pending, Assigned, Processing)

Order ID	Customer Name	Employee Name	Order Date	Total Amount	Status	Actions
4	Leen Jaber	Unassigned	2025-12-27	\$0.00	Pending	<button>Assign Employee</button> <button>Update Status</button>
2	Leen Jaber	Mohammad Qassem	2024-03-01	\$180.00	Pending	<button>Change Employee</button> <button>Update Status</button>

In this screen, after the admin approves/converts the custom stone request, it is turned into a normal order, so it appears directly in the Orders Management page as a new active order. The new order will usually start as Pending, and it may show Unassigned until the admin assigns an employee, then the admin can manage it normally (assign/change employee + update status).

My Orders

View your order history and track status

Order ID	Stone Name	Quantity	Order Date	Total Amount	Status	Actions
4	Leen Jaber	3	2025-12-27	\$0.00	Pending	<button>Cancel Order</button>
2	Leen Jaber	3	2024-03-01	\$180.00	Pending	<button>Cancel Order</button>

This My Orders page shows all orders made by the customer, with details like Order ID, stone name, quantity, order date, total amount, and current status.

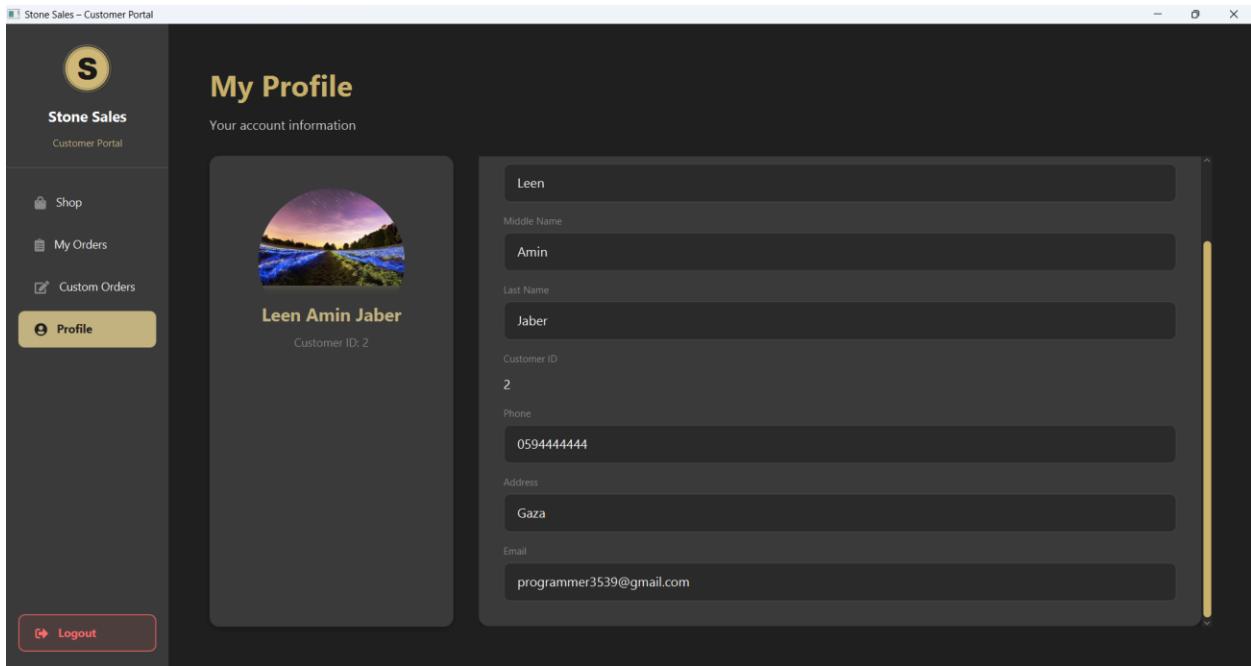
In the Actions column, the customer can see a Cancel Order button only when the order status is “Pending”.

Once the order status changes to Processing (or any later stage), the Cancel Order button disappears, meaning the customer can no longer cancel the order because it is already being handled by the system/admin.

My Custom Stone Requests						
Track your custom stone order requests and their status						
ID	Stone Type	Size	Qty	Description	Status	Requested On
1	ds	3x5	6	for my home	Converted	Dec 27, 2025 15:50

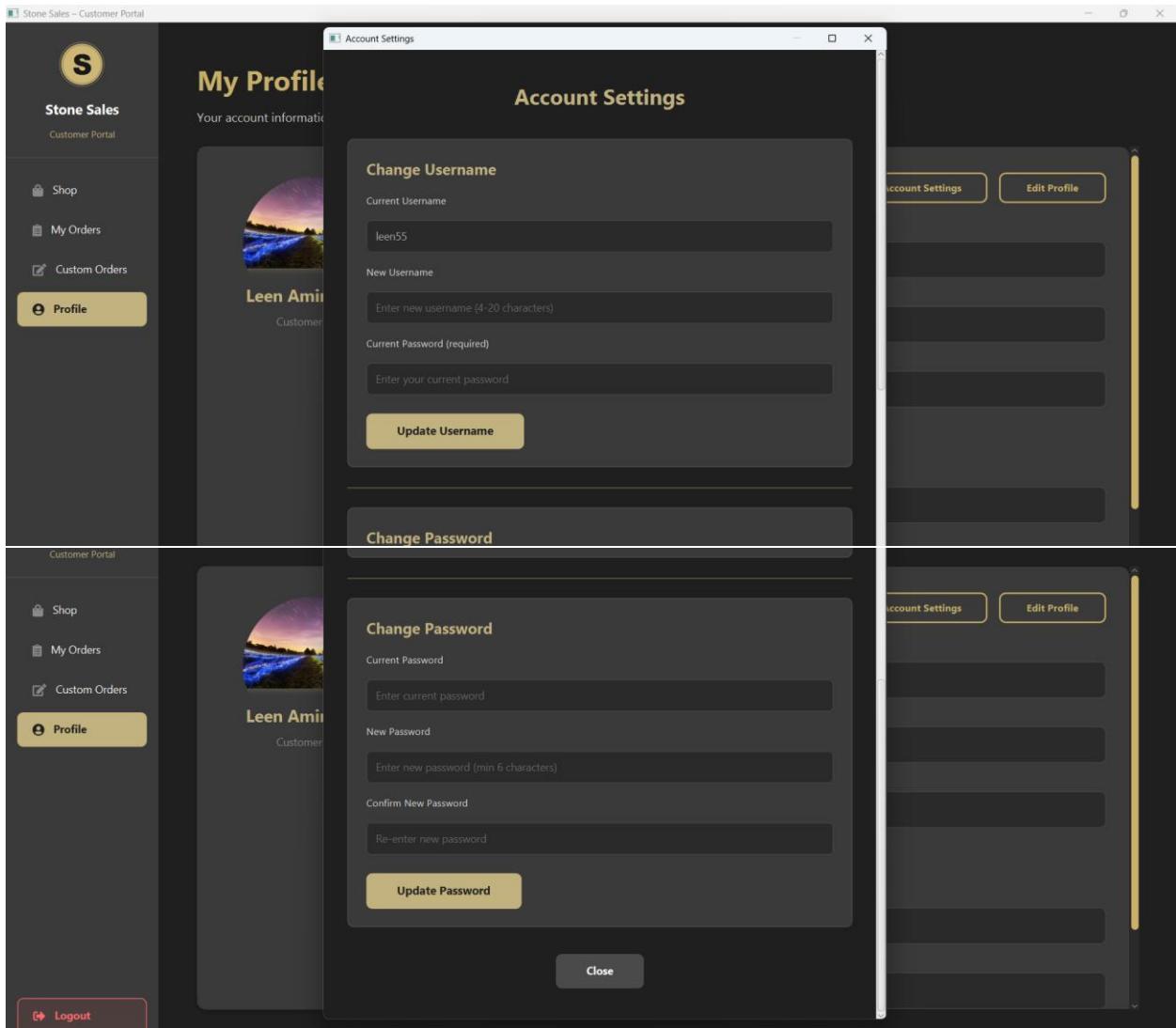
Here custom order page that contains the custom order that we make

My Profile						
Your account information						
CUSTOMER INFORMATION						
First Name	<input type="text" value="Leen"/>					
Middle Name	<input type="text" value="Amin"/>					
Last Name	<input type="text" value="Jaber"/>					
Customer ID	<input type="text" value="2"/>					
Phone	<input type="text" value="0594444444"/>					
Address	<input type="text" value="Gaza"/>					
<input type="button" value="Account Settings"/> <input type="button" value="Edit Profile"/>						
 Leen Amin Jaber Customer ID: 2						
<input type="button" value="Logout"/>						



The Profile page displays the customer's account details in an organized layout. It shows the customer's basic information (name and customer ID) and a form containing fields such as first name, middle name, last name, phone, address, and email.

From this page, the customer can update their personal information using the available edit options, ensuring their stored contact details (especially email) remain accurate for notifications.



Account Settings Window (Customer Portal)

When the customer clicks Account Settings in the Profile page, a separate Account Settings window opens. This window is divided into two clear sections:

- **Change Username:**
Shows the current username (read-only), and provides fields to enter a new username and the current password (required). After filling the fields, the customer clicks Update Username to save the change.
- **Change Password:**
Allows the customer to update their password by entering the current password, then typing the new password and confirming it. The change is saved by clicking Update Password.

At the bottom of the window, there is a Close button to exit the Account Settings screen without making changes.

The screenshot shows the 'Stone Sales – Employee Dashboard' window. On the left is a sidebar with a logo, 'Stone Sales', 'Employee', and navigation links for 'Assigned Orders' (which is active and highlighted in yellow), 'Profile', and 'Logout'. The main content area is titled 'Assigned Orders' and displays a table of orders assigned to the user. The table has columns: Order ID, Customer Name, Order Date, Status, Total Amount, and Actions. One order is listed: Order ID 3, Customer Name Sara Hassan, Order Date 2024-01-22, Status Completed, Total Amount \$320.00. The Actions column contains 'View Details' and 'Update Status' buttons.

This screen is the Employee Dashboard → Assigned Orders page.

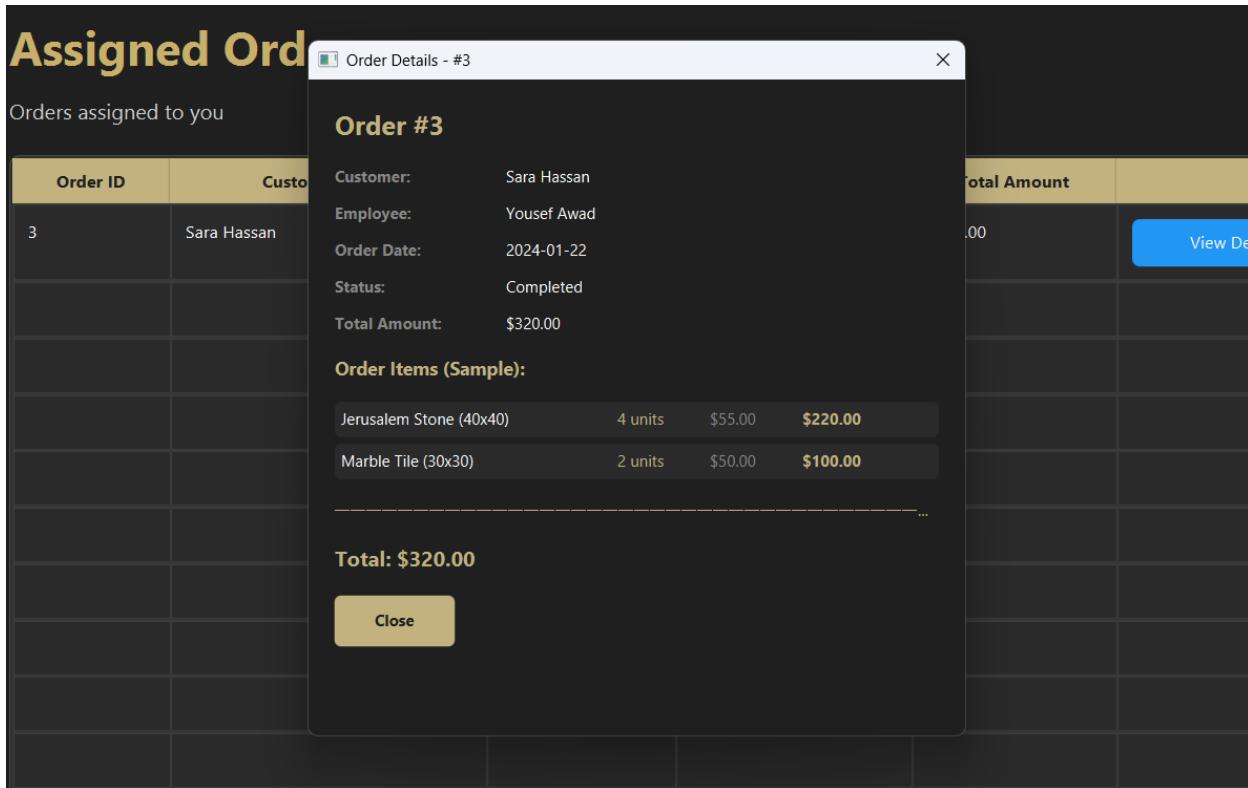
It shows only the orders assigned to the currently logged-in employee, so the employee can easily track the orders they are responsible for.

The table lists the main order information:

- Order ID (unique order number)
- Customer Name
- Order Date
- Status (e.g., Pending / Processing / Completed)
- Total Amount

In the Actions column, the employee can:

- View Details: open the full order details (items, quantities, etc.).
- Update Status: change the order status as work progresses (for example from Pending to Processing, then Completed).
- This page helps the employee manage their workload by focusing only on the orders they “represent / handle” in the system.



This window is the Order Details popup that appears when the employee clicks “View Details” for a specific order.

At the top, it shows the Order number (here: Order #3).

Then it displays the main order info:

- Customer name (Sara Hassan)
- Assigned employee (Yousef Awad)
- Order date
- Status (Completed)
- Total amount (\$320.00)

Under Order Items, it lists the items included in the order (sample view), and for each item it shows:

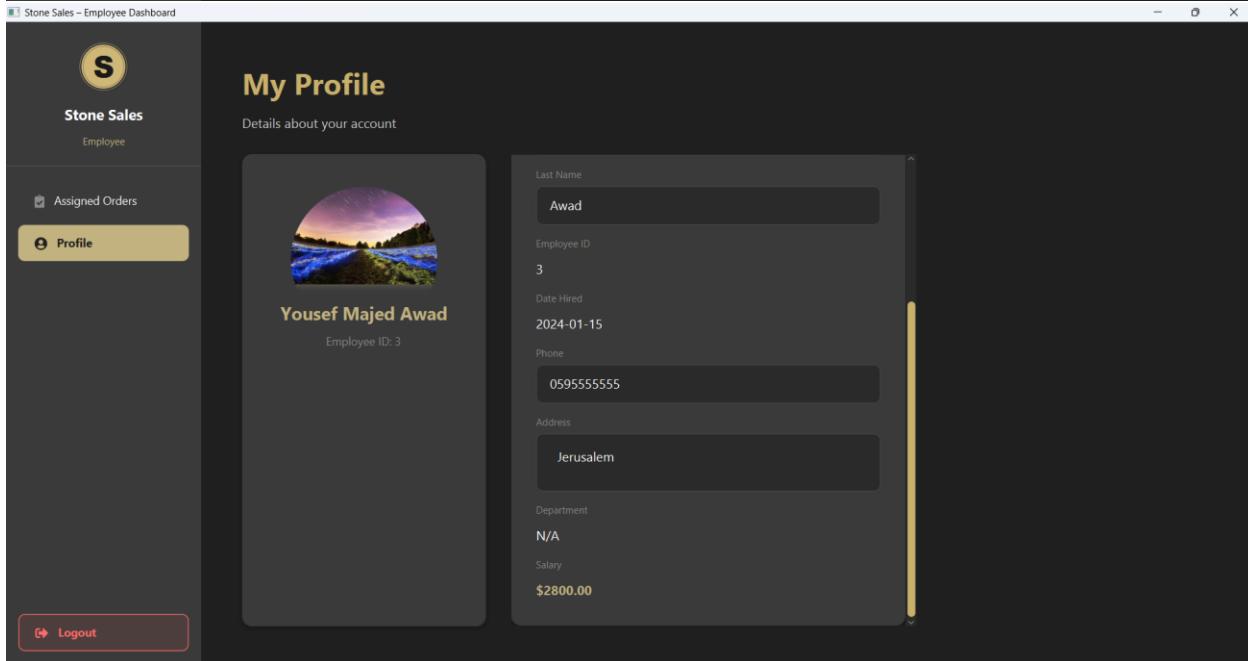
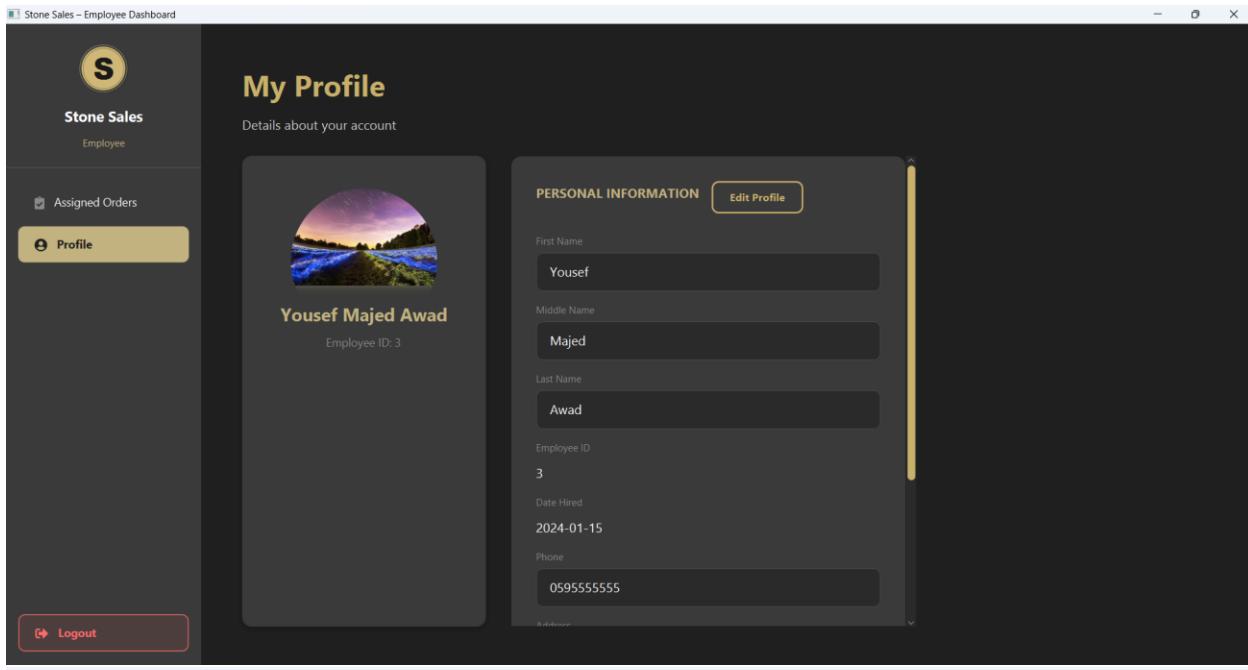
- Item name + size
- Quantity (units)
- Price per unit
- Line total (quantity × price)
- At the bottom, it shows the final total again for confirmation.

The Close button just closes the details window and returns the employee to the Assigned Orders page.

The application interface displays a list of assigned orders. The top screenshot shows the 'Update Order Status' screen for Order #3, which is currently marked as 'Completed'. The bottom screenshot shows the same screen after attempting to change the status, with a modal dialog box appearing stating "Cannot Update Completed Order".

When the employee clicks Update Status, a dialog opens where they can choose a new status from a dropdown and confirm using Update Status.

In the screenshot, an error message appears because the employee tried to change an order that is already Completed. Completed orders are read-only, so the system blocks any modifications and shows a warning like: "Cannot update completed order" to ensure finished orders remain unchanged.



The employee profile page displays the employee's personal information such as full name, employee ID, hire date, phone, address, department, and salary.

The employee can press **Edit Profile** to update allowed personal details, but account login data (like username) is not editable from here.

Conclusion:

The Stone Sales Management System successfully combines the main business and administrative operations into one clear, user-friendly platform designed for a stone sales company. By organizing the workflow across Admin, Employee, and Customer roles, the system streamlines key processes such as browsing the stone catalog, placing orders, handling custom stone requests, assigning orders to employees, tracking order progress, and generating reports. This reduces manual work, improves accuracy, and ensures smoother communication between customers, staff, and management. Overall, the system enhances efficiency, supports better decision-making, and provides a reliable way to manage daily stone sales operations.

References:

- Database Slides & Lectures.
- PostgreSQL Documentation (PostgreSQL: Documentation)
- YouTube Videos
- Ai tools like: ChatGPT