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System Development Technology (SECP3723)

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SECTION 01

Final WBL Project:

<AK Maju Business Management System>

Lecturer:

Assoc. Prof. Dr Haza Nuzly Bin Abdull Hamed

GROUP MEMBER	MATRIC NO.
GOH JIALE	A22EA0043
TANG YAN QING	A22EC0109
ONG YI YAN	A22EC0101

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1. Declaration Page

There are six modules that were developed by our group, which are:

1. Authentication module
2. Dashboard module
3. Customer management module
4. Material management module
5. Order management module
6. Documentation module

We hereby declare that:

The report of Final WBL Project for AK Maju Business Management System is completely original done by our groupmates unless some source material is explicitly acknowledged and has been exchanged and checked by all groupmates to make sure it is original content that was written by our team.

Name	Task	Signature
GOH JIALE (LEADER)	<ul style="list-style-type: none">- Customer Management Module- Order Management Module	
ONG YI YAN	<ul style="list-style-type: none">- Authentication Module- Material Management Module	
TANG YAN QING	<ul style="list-style-type: none">- Dashboard Module- Documentation Module	

2. Project Report

2.1 Company/Client Background



Figure 1.1 Logo of AK Maju Resources Sendirian Berhad.

AK Maju Resources Sendirian Berhad is a private limited company founded by CEO Noor Azam in 2008 and incorporated in 2014 in Segamat, Johor. The logo for AK Maju Resources Sendirian Berhad is shown in Figure 3.1.

AK Maju provides construction and advertising services. Their construction division sells a wide range of building materials and supplies to clients undertaking construction and renovation projects.

Their advertising division provides graphic design services for print advertisements. They work closely with clients to design appealing and effective print ads based on their target audience and campaign goals.

AK Maju has 7 staff members organised in a simple hierarchical structure (Figure 3.2). There is 1 Manager who oversees the entire organisation. Below the Manager is the Admin/Account Officer who handles finances and operations. The Customer Service Representative interacts with clients and customers. The design team consists of 1 Senior Designer, 1 Senior Designer 2, and 1 Junior Designer. They are responsible for creating design solutions for clients. Finally, there is 1 Marketing Specialist who handles promotional activities and marketing campaigns for AK Maju. This simple organisational structure allows

AK Maju to operate efficiently while providing high quality service to its clients. The reporting relationships are clear, with most staff reporting directly to the Manager.



Figure 1.2 Organisational chart of AK Maju Resources Sdn Bhd.

2.2 Problem Background

At present, AK Maju Resources Sdn Bhd utilises a manual system for managing customer orders and inventory in the construction and advertising sector. It has several severe shortcomings as stated below.

1. Manual Cost and Sales Price Calculation

The staff faced problems when calculating cost and sales prices for advertisement and construction materials. This manual process requires complex calculation since the materials sold involve varying sizes, thicknesses and other characteristics, from small to large components. Each calculation is done item by item using Excel sheets and notebooks, which not only makes the procedure laborious but also prone to mistakes.

2. Time-Intensive Documents Generation

Documents needed by AK Maju include quotations, invoices and delivery orders. Quotation generation typically takes one to two weeks to complete. The need for manual calculations each time a customer requests a quote results in considerable time and effort investments. Besides, the quotations, invoices and delivery orders need to be edited manually, further increasing the time required.

3. Inefficient Inventory Management

Manual monitoring by staff is necessary because there is no automatic method for stock notifications and inventory tracking. It makes it challenging to identify and resolve low-stock issues quickly. In addition, the involvement of staff in manually managing inventory takes their time and energy away from important tasks, which reduces operational efficiency as a whole.

4. Inefficient Record-Keeping

Excel or other methods used to record customers' information may get unmanageable when handling a large amount of data, leading to performance issues and slow response times. Typographical mistakes made during data entry might result in inaccurate client records. Data loss might occur if not handled carefully.

2.3 Proposed Solution

Our proposed system is to develop a web-based management system that can be used for admin and staff. This web-based system is specifically tailored for AK Maju with the aim of converting the existing manual procedures into a computerised system in advertisement and construction sectors. There are 6 modules in this system, which are authentication, dashboard, customer management, material management, order and documentation.

From the staff's perspective, they can log in and reset the password for their account. Since there is no register function, staff are not allowed to register new accounts and will be given an account by the admin. Upon login, the staff can view the current order status, a list of adjustment items in the past 30 days and low-stock items in the dashboard. Additionally, staff can view the customer information on the customer page and search for the customer using their name or ID. Furthermore, staff can view and manage advertisement materials and advertisement orders. It means that staff can add, edit, and delete advertisement materials and orders. These functions are similar to those for managing construction materials and construction orders. Nevertheless, advertisements have different functions compared to construction since advertisements consist of accurate inventory and construction is designed based on JKR standards. Thus, advertisements consist of additional functions such as payment methods, managing payment references, extra documentation (invoice and delivery order) and more statuses such as invoice status, delivery order status and payment status. Besides that, the construction consists of features such as managing electric and civil order materials and managing order rate salary. Lastly, staff can generate documentation such as quotations, invoices and delivery orders and check the invoice. Staff can also manage signatures for use in e-documentation.

From the admin perspective, the AK Maju Business Management System gives administrators access to additional features that help them monitor and control the construction and advertising businesses. Admins can control system access by creating, editing and deleting user accounts. In the admin dashboard, they can view the sales statistics, such as total orders and total gross profit. They can also download or send the transaction listing report, stock balance report and profit and loss report. Unlike staff, admins can export customer information for more extensive reporting and analytical needs. In the material management area, the admin can access the cost information of each advertisement material.

Admins can approve quotations, invoices, and delivery orders within the Documentation Module, giving important documents additional validation.

In conclusion, the AK Maju Business Management System is a complete solution that streamlines and improves the management of AK Maju Resources Sdn. Bhd.'s construction and advertisement sectors. The system ensures effective daily operations and strategic oversight with features specifically designed for staff and admin users. Staff have access to tools that make order management, customer contacts and document preparation easier. At the same time, the admin may take advantage of more advanced functions that include financial reporting and document verification. Offering an integrated structure for efficient operation, the system is an essential tool in helping AK Maju Resources Sdn. Bhd. to enhance its business processes.

2.4 Development Approach

The development of AK Maju Business Management System has applied the system development life cycle (SDLC). There are six phases in SDLC, which start from Planning, followed by Analysis, Design, Implementation, Testing and Maintenance.

First, in the Planning phase, an interview is conducted with the stakeholders from AK Maju on Industry Day 1. Before the interview, the interview questions are first decided, including open-ended questions and closed-ended questions. The interview involved understanding the current system flow and gathering requirements, with additional documents such as a Quotation example obtained from stakeholders. After interviewing, the knowledge obtained is summarised to make a flow chart of the existing system. This phase also involved defining objectives, scopes, and resources and creating essential project management tools like Work Breakdown Structure (WBS), Gantt chart and Pert chart.

In the Analysis phase, a To-Be system flow chart was crafted. Then, 16 use cases are identified, and a use case diagram is produced after a few rounds of meetings between team members. The use cases are then categorised into modules. There are six modules, which are authentication, dashboard, customer management, materials management, order and documentation. Each team member was then assigned two modules. The use case description, activity diagram and sequence diagram are created for each module accordingly.

In the design phase, the package diagram, architecture diagram, component model, class diagram database design and data dictionary of each module will be developed. The package diagram showed the high-level organisation of system components, while the architecture diagrams visually represented the system's structural framework. Besides, the class diagrams showed the relationships and interactions between classes, whereas component models were used to outline the individual components of each module. The database underwent conceptual and logical design, employing normalisation techniques. The transaction requirements, including data entry, update or delete and query, are also designed for each module. The function for each module is also developed to support the implementation phase.

All the design components are turned into a working system in the implementation phase. The user interface, design elements, server-side logic and database functionality for each

module are first implemented on the local host. Server-side logic facilitates seamless communication between the user interface and the database functionalities. The database was created to ensure proper data storage, retrieval and management. During the implementation, any errors identified were also solved, and any feedback from lecturers was improved. Lastly, when the system is done, all modules are combined and uploaded to the web host. The user manual is created to explain the steps of each function.

The system underwent a thorough evaluation in the testing phase to ensure its reliability and performance. Individual modules underwent unit testing to ensure that every part functioned as intended. For example, specific functionalities, such as generating quotations in the documentation module, were examined to ensure it can function accurately. Next came integration testing, where the modules interacted with one another to evaluate the performance of the interaction. Subsequently, system testing was carried out to assess the whole system's performance. Finally, user acceptance testing is conducted with the stakeholders from AK Maju to confirm that the system meets their requirements and expectations. The interface and flow of each function are presented to gain feedback from the stakeholders.

In the last phase, Maintenance, the system is continuously monitored to fix any potential issues. A systematic technique is used to identify and address problems quickly. This process includes debugging code, examining error logs and conducting extensive testing to confirm the efficacy of bug solutions.

2.5 System Design (ERD, Use Case and Sequence Diagram)

2.5.1 Use Case Diagram

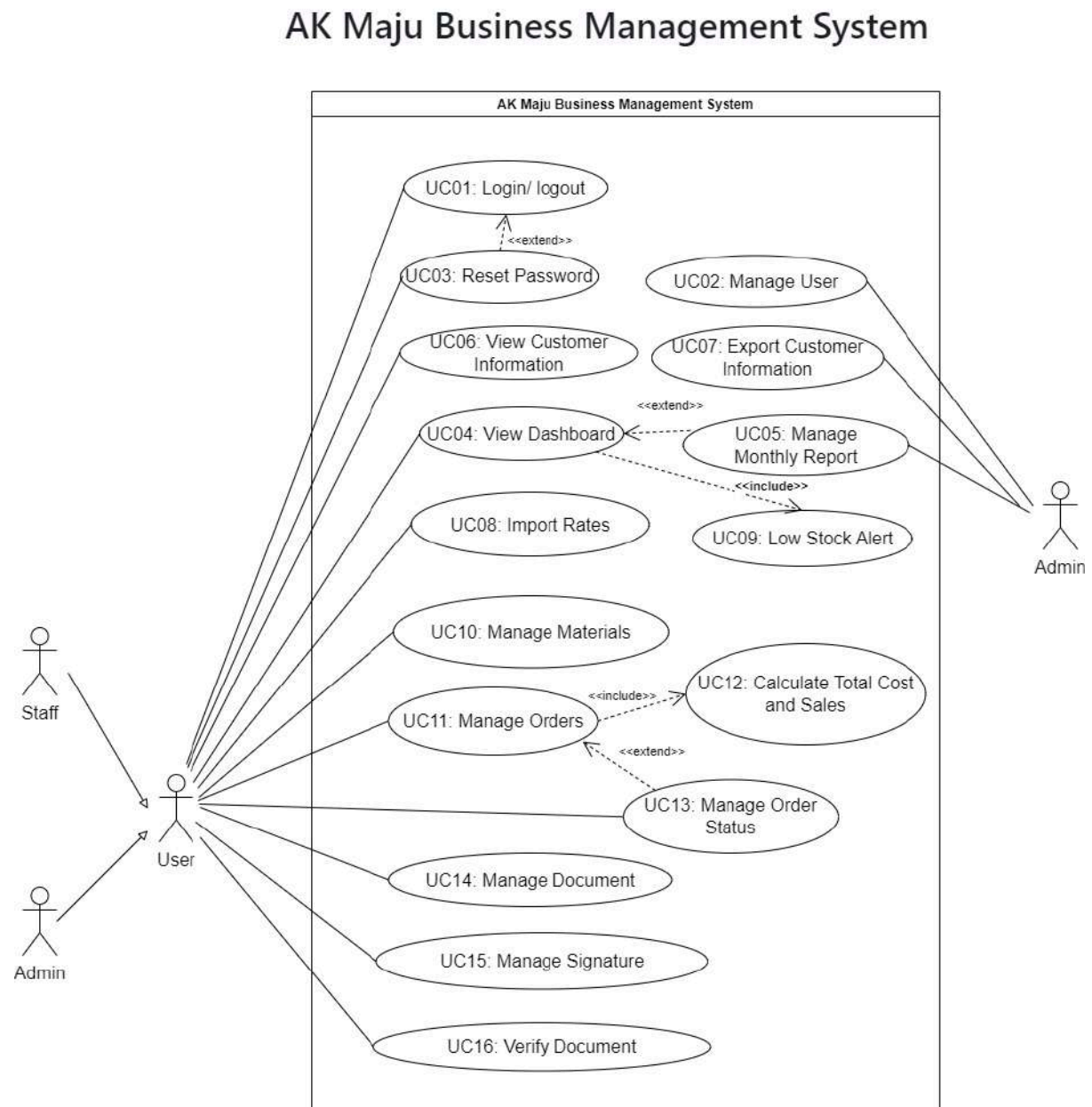
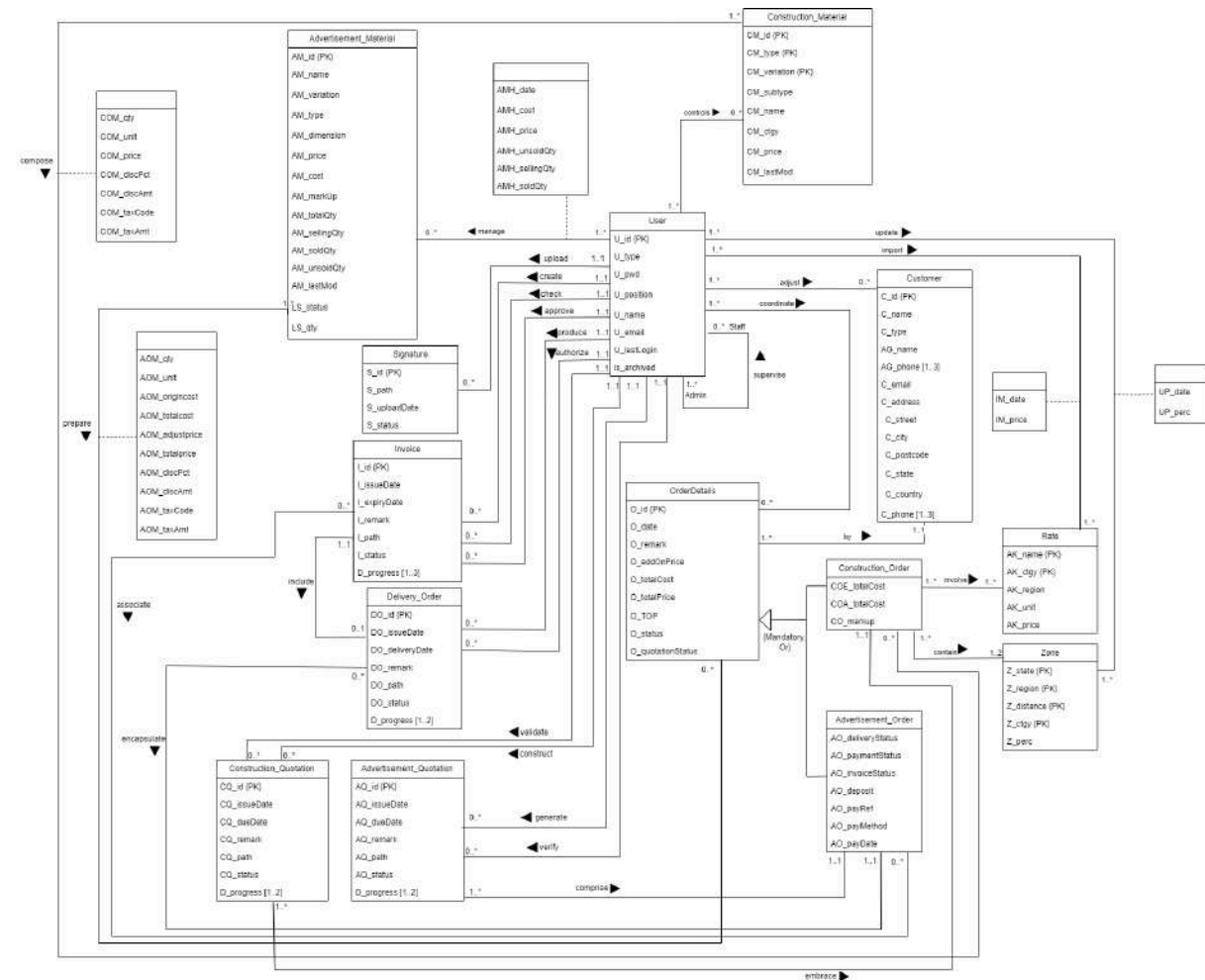


Figure 2.5.1.1: Use Case Diagram of AK Maju Business Management System

Here is the high quality image of design: [Global Conceptual Design](#)



Here is the high quality image of design: [Global Conceptual Design](#)

2.5.3 Logical ERD

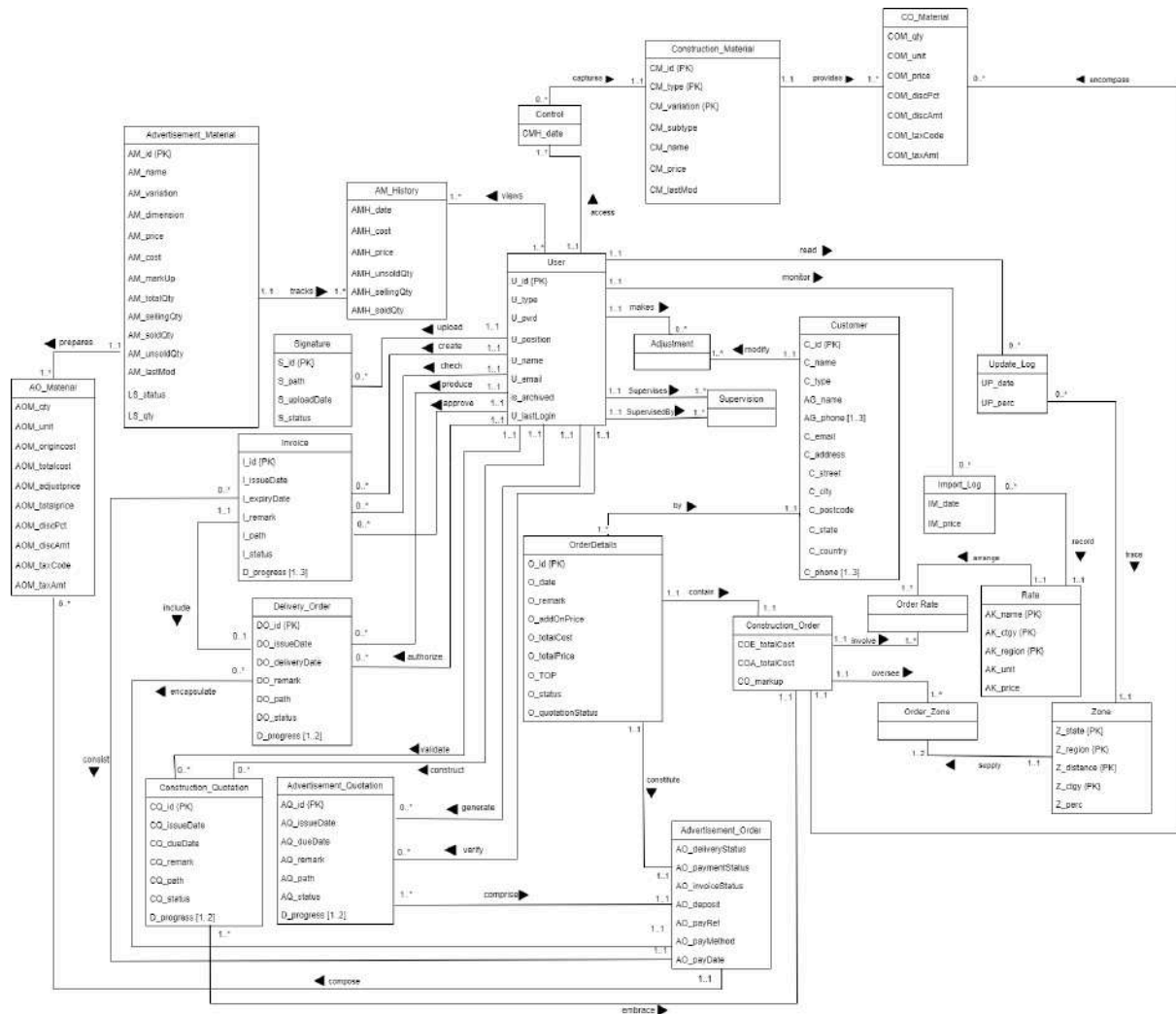


Figure 2.5.3.1: Logical ERD of AK Maju Business Management System

Here is the high quality image of design: [Logical ERD](#)

2.5.4 Module 1: Authentication Module

2.5.4.1 Use Case Diagram

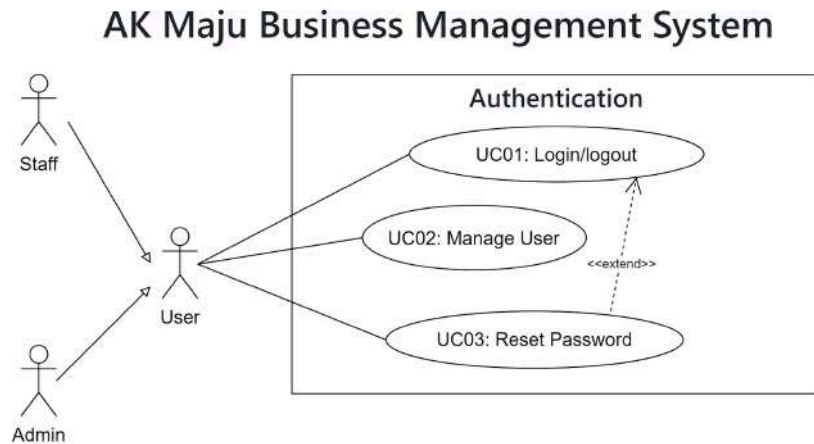


Figure 2.5.4.1.1: Use Case Diagram for Authentication Module

2.5.4.2 Local Conceptual ERD

Module 1: Authentication Module

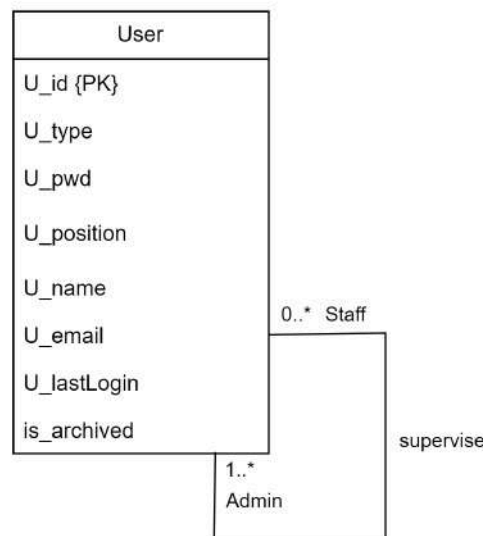


Figure 2.5.4.2.1: Local Conceptual ERD for Authentication Module

2.5.4.3 Sequence Diagram

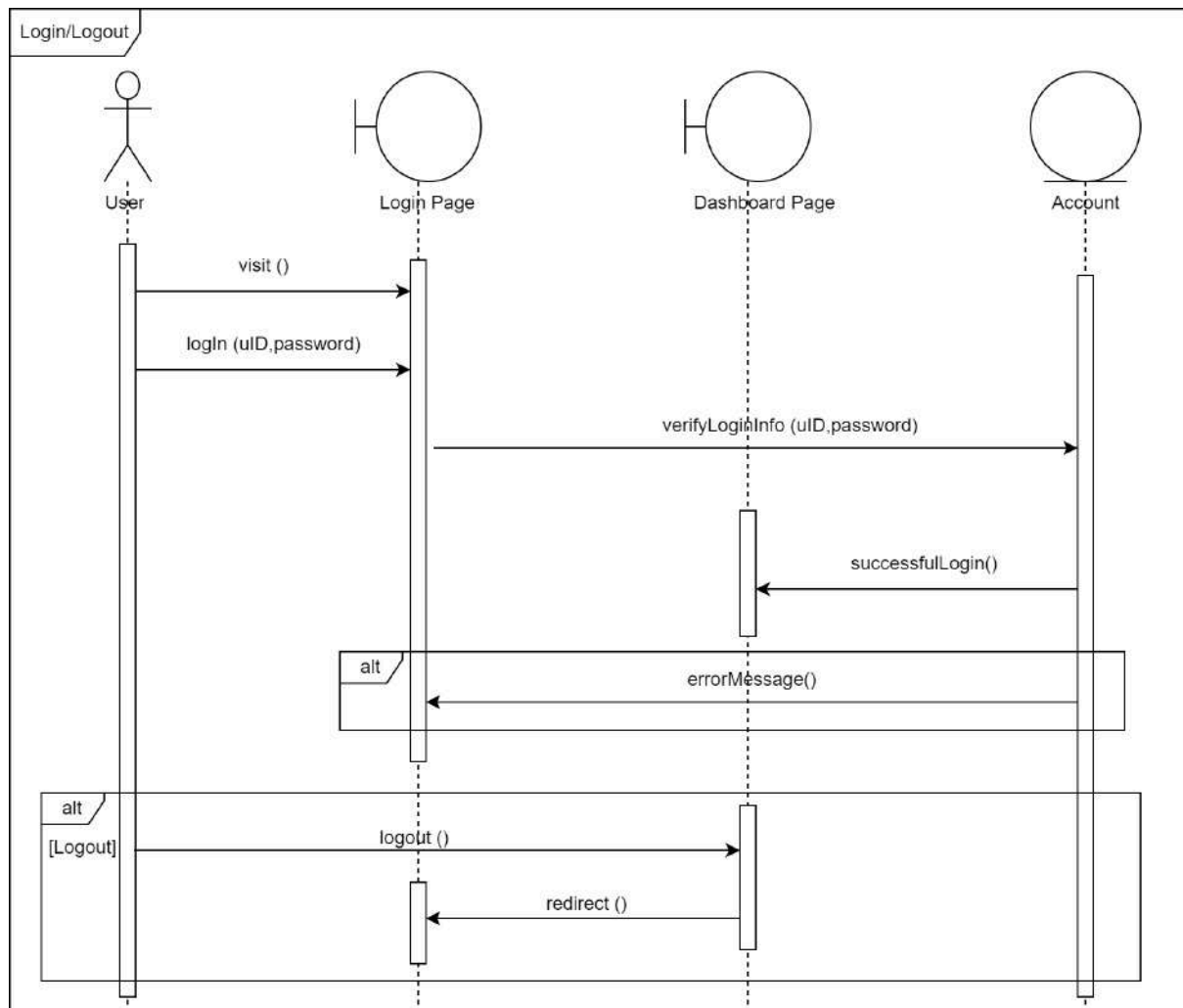


Figure 2.5.4.3.1: Sequence Diagram for <Login/Logout>

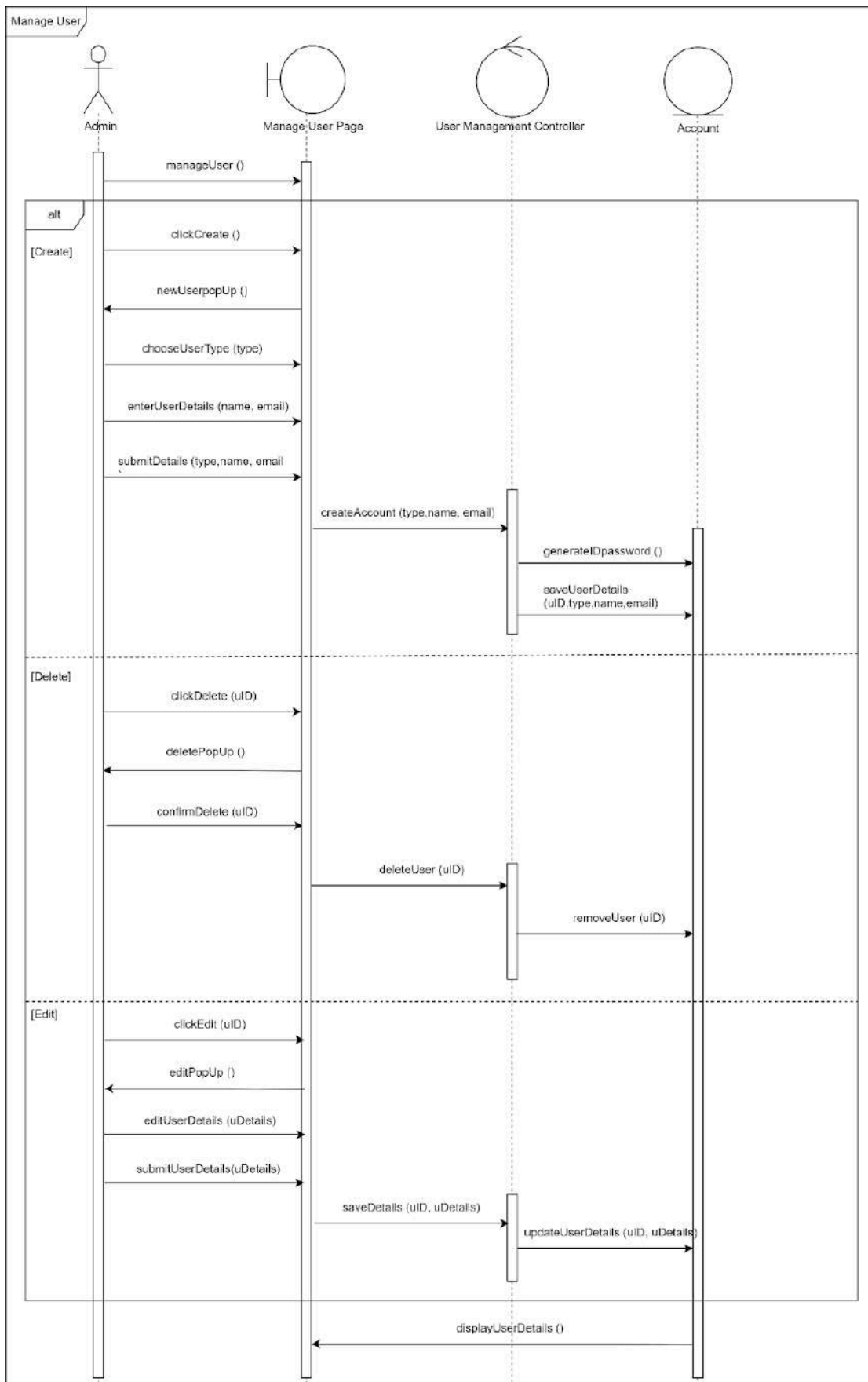


Figure 2.5.4.3.2: Sequence Diagram for <Manage User>

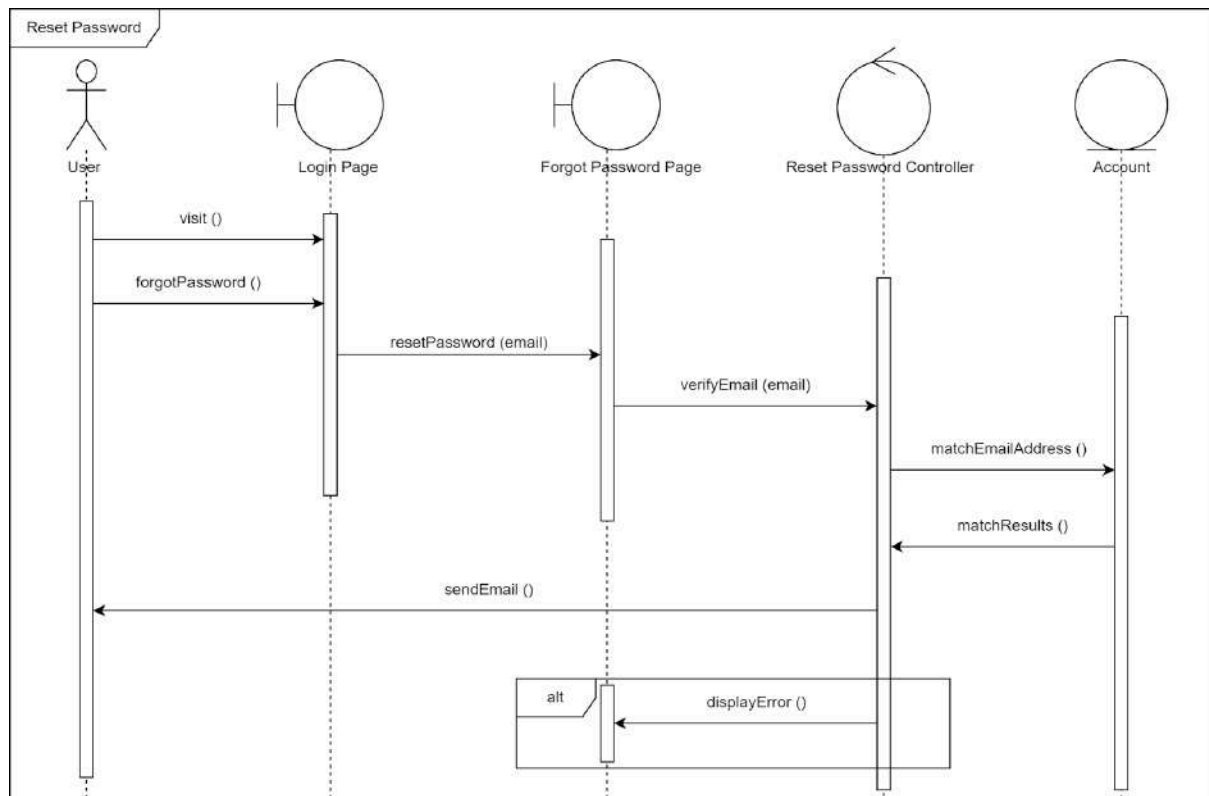


Figure 2.5.4.3.3: Sequence Diagram for <Reset Password>

2.5.5 Module 2: Dashboard Module

2.5.5.1 Use Case Diagram

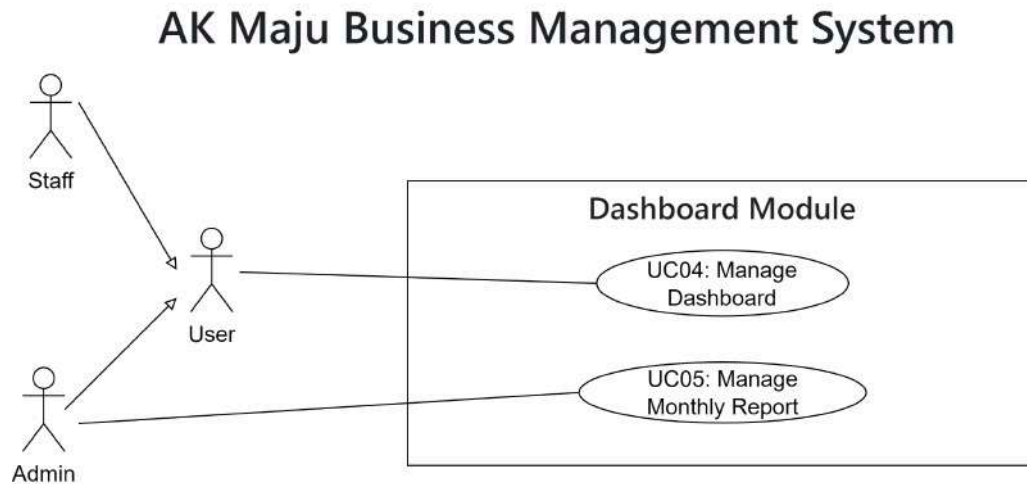


Figure 2.5.5.1.1: Use Case Diagram for Dashboard Module

2.5.5.2 Local Conceptual ERD

Module 2: Dashboard Module

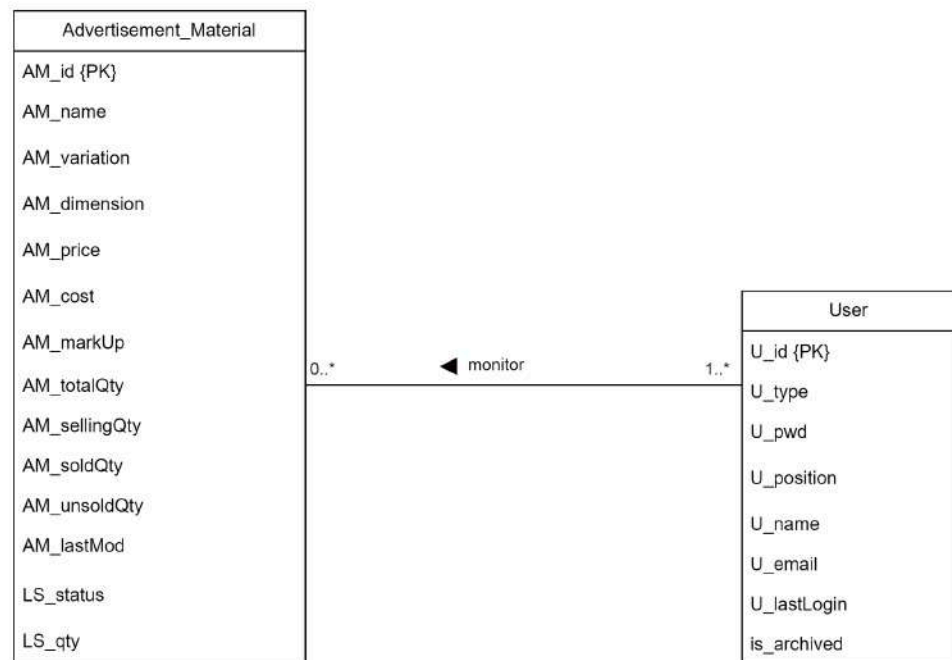


Figure 2.5.5.2.1: Local Conceptual ERD for Dashboard Module

2.5.5.3 Sequence Diagram

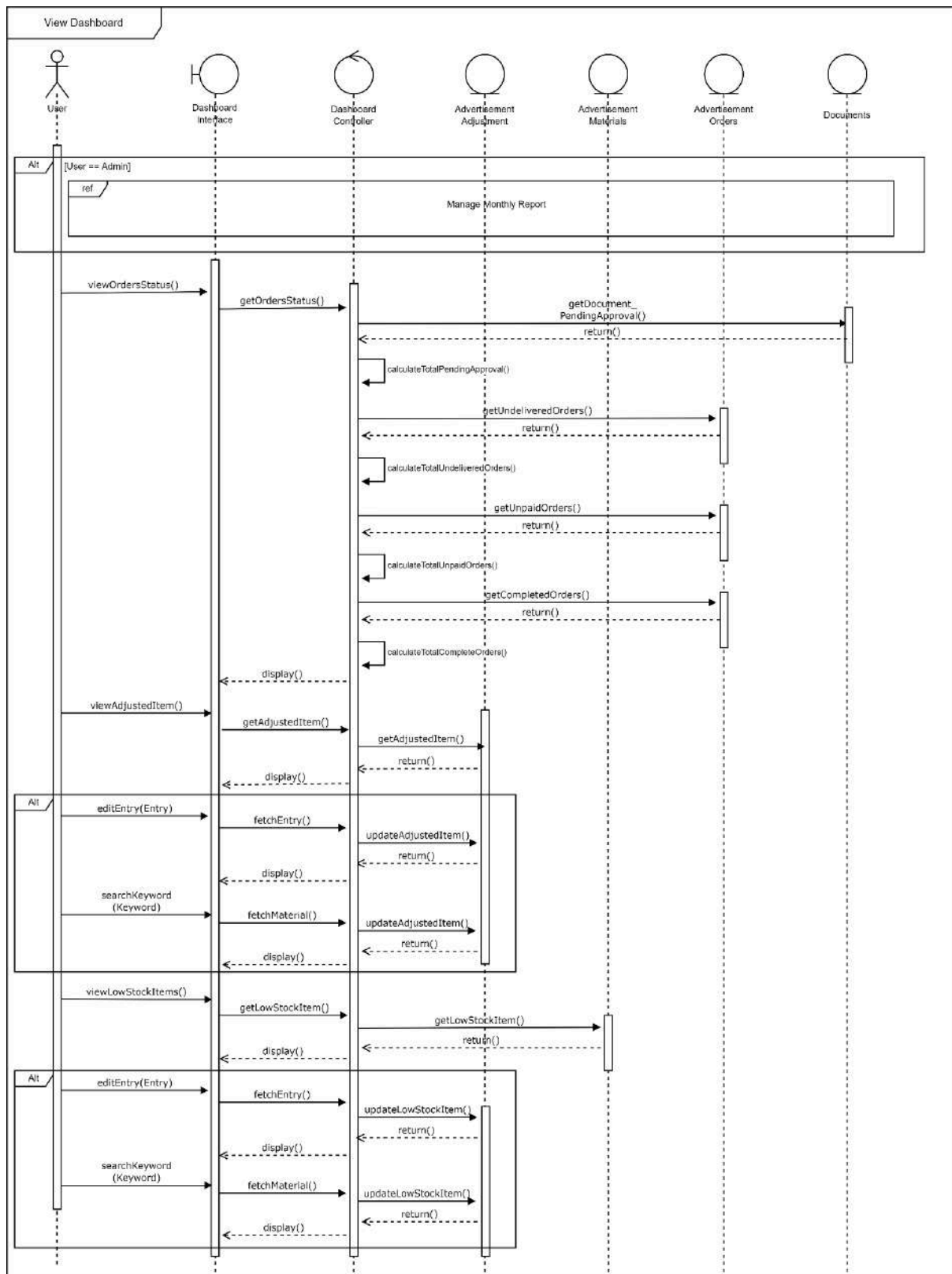


Figure 2.5.5.3.1: Sequence Diagram for <View Dashboard>

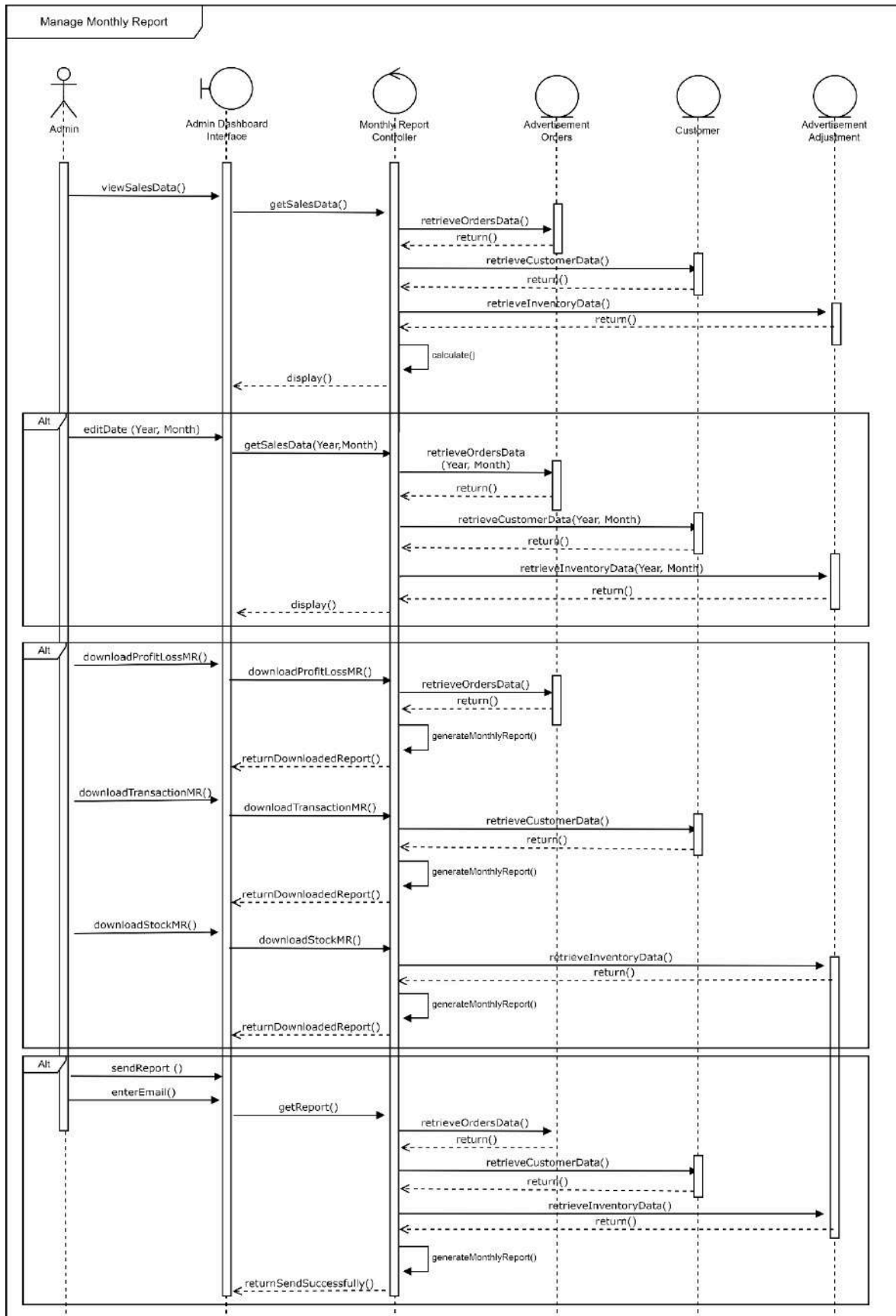


Figure 2.5.5.3.2: Sequence Diagram for <Manage Monthly Report>

2.5.6 Module 3: Customer Management Module

2.5.6.1 Use Case Diagram

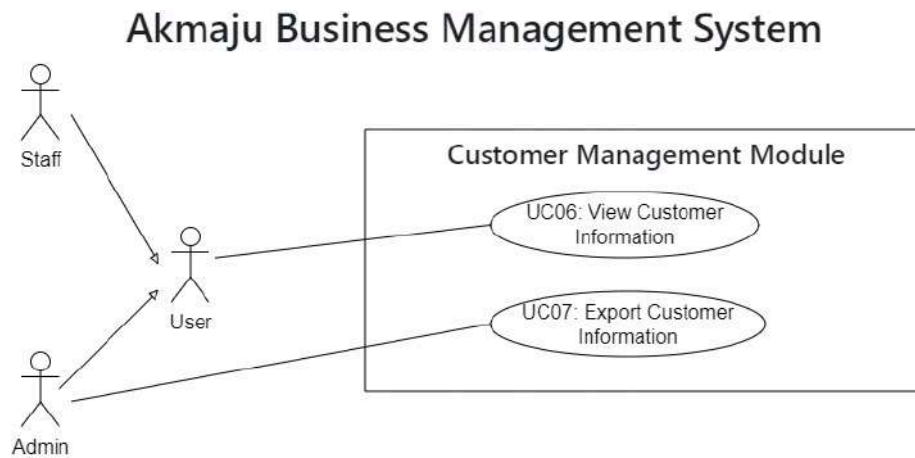


Figure 2.5.6.1.1: Use Case Diagram for Customer Management Module

2.5.6.2 Local Conceptual ERD

Module 3: Customer Management Module

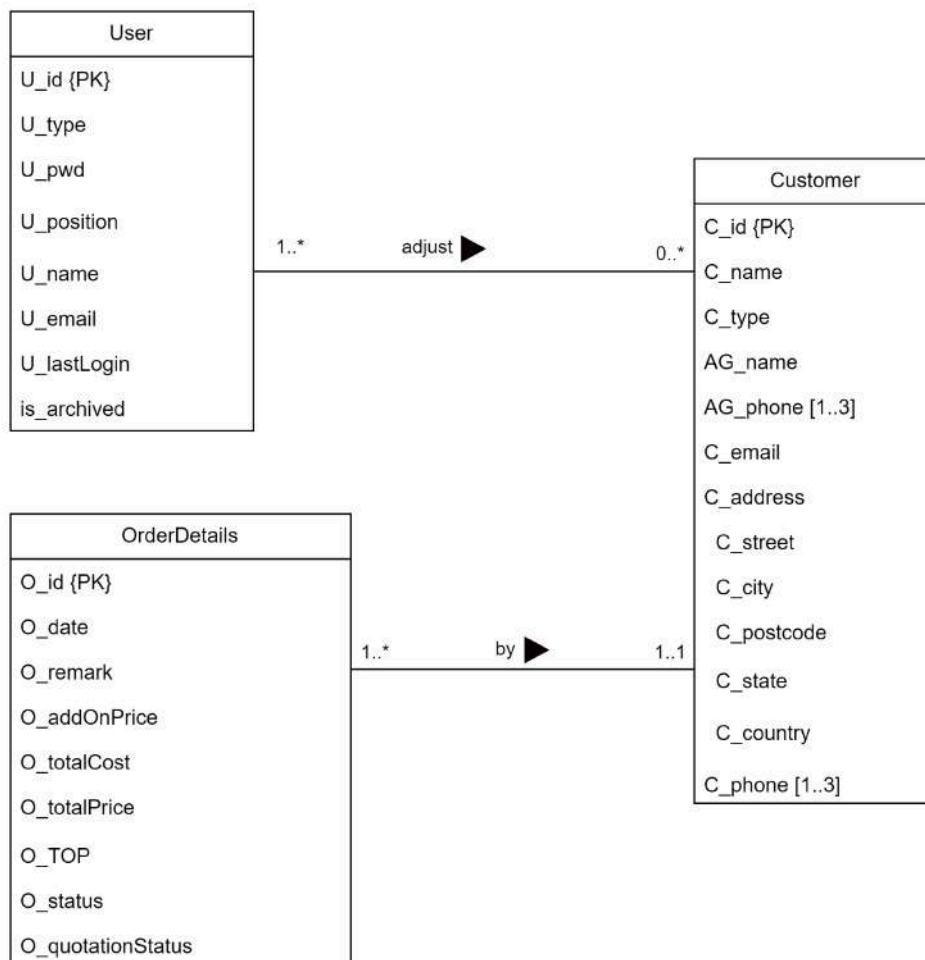


Figure 2.5.6.2.1: Local Conceptual ERD for Customer Management Module

2.5.6.3 Sequence Diagram

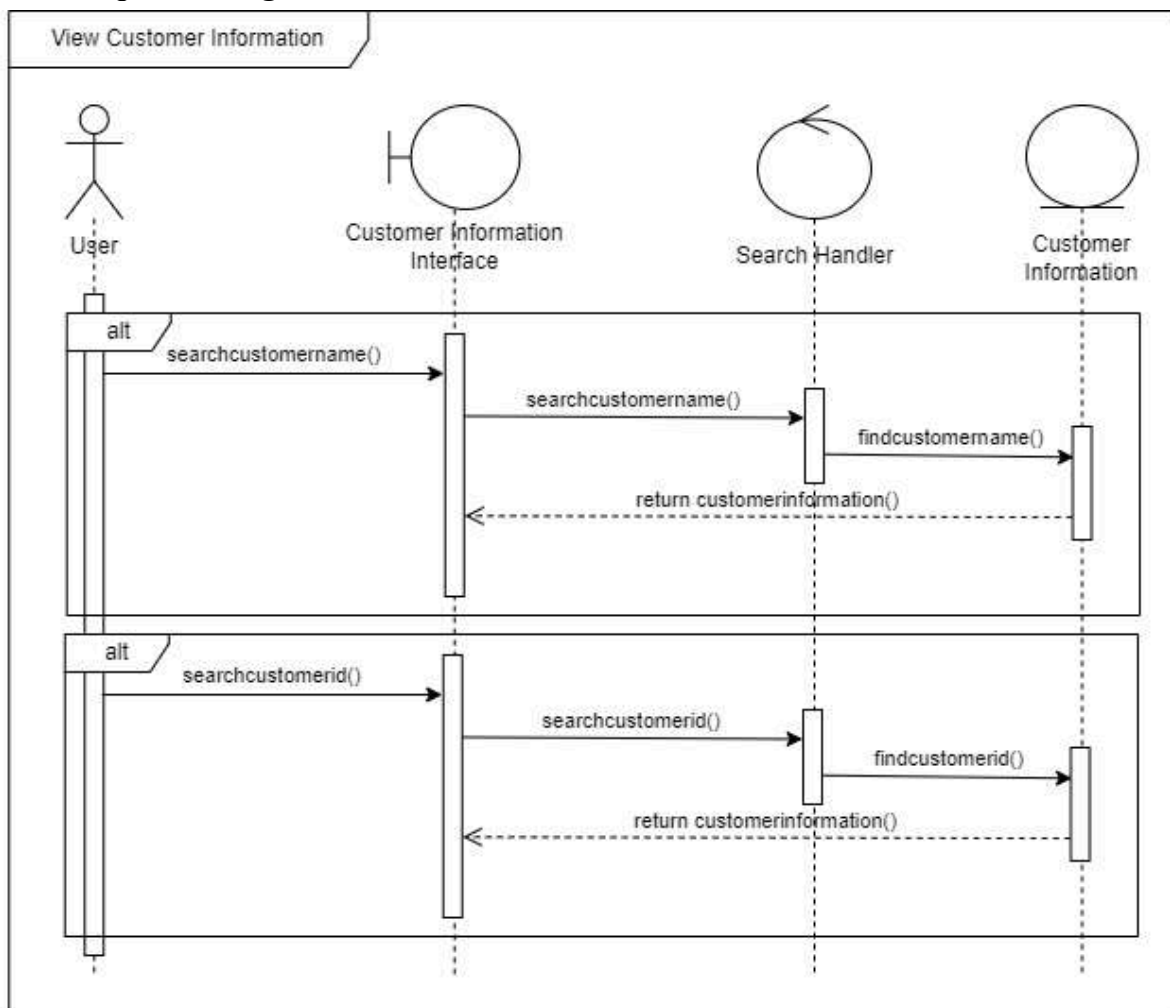


Figure 2.5.6.3.1: Sequence Diagram for <View Customer Information>

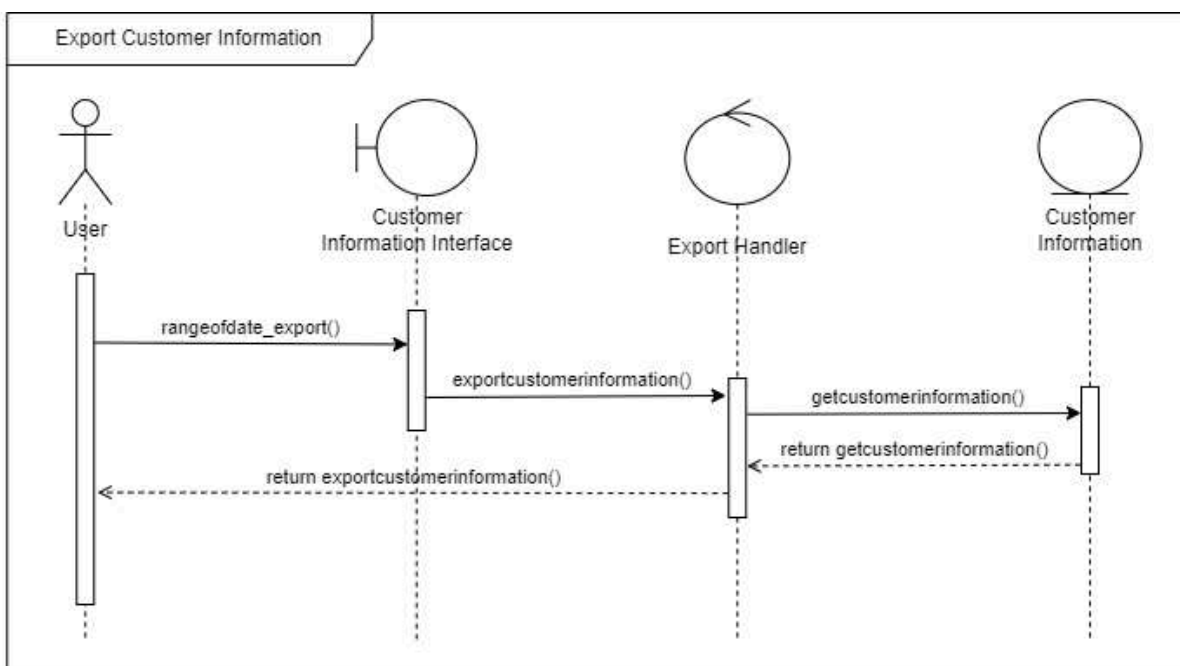


Figure 2.5.6.3.2: Sequence Diagram for <Export Customer Information>

2.5.7 Module 4: Material Management Module

2.5.7.1 Use Case Diagram

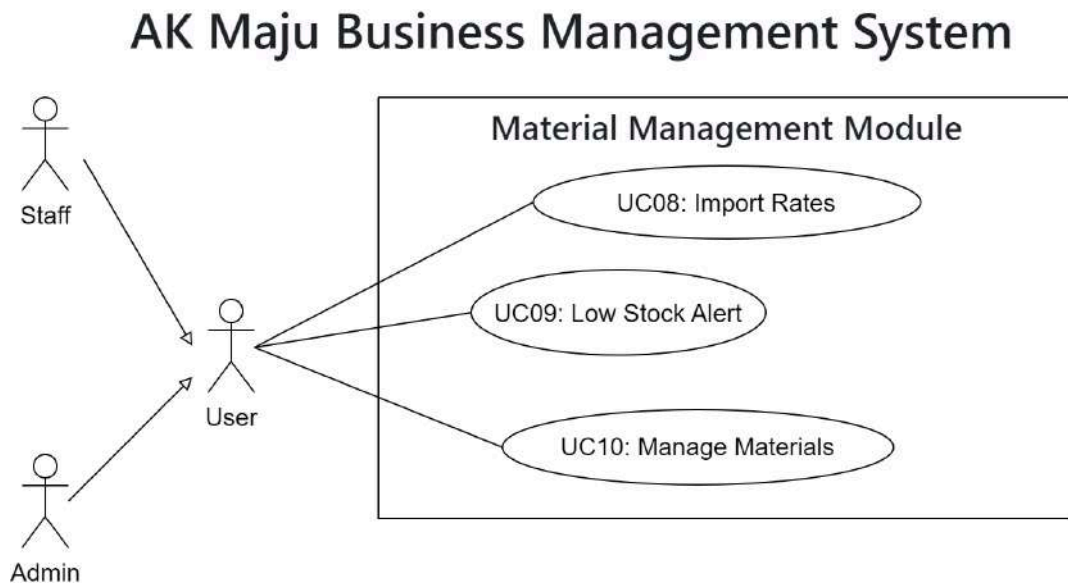


Figure 2.5.7.1.1: Use Case Diagram for Material Management Module

2.5.7.2 Local Conceptual ERD

Module 4: Material Management Module

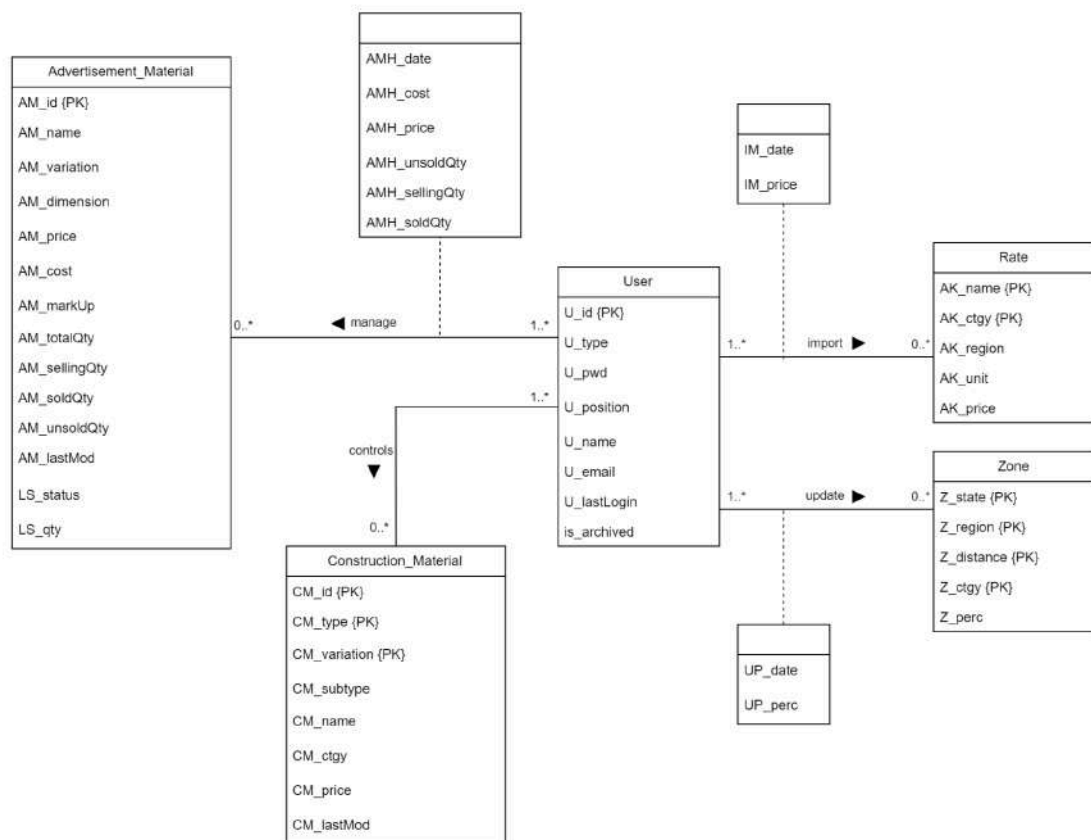


Figure 2.5.7.2.1: Local Conceptual ERD for Material Management Module

2.5.7.3 Sequence Diagram

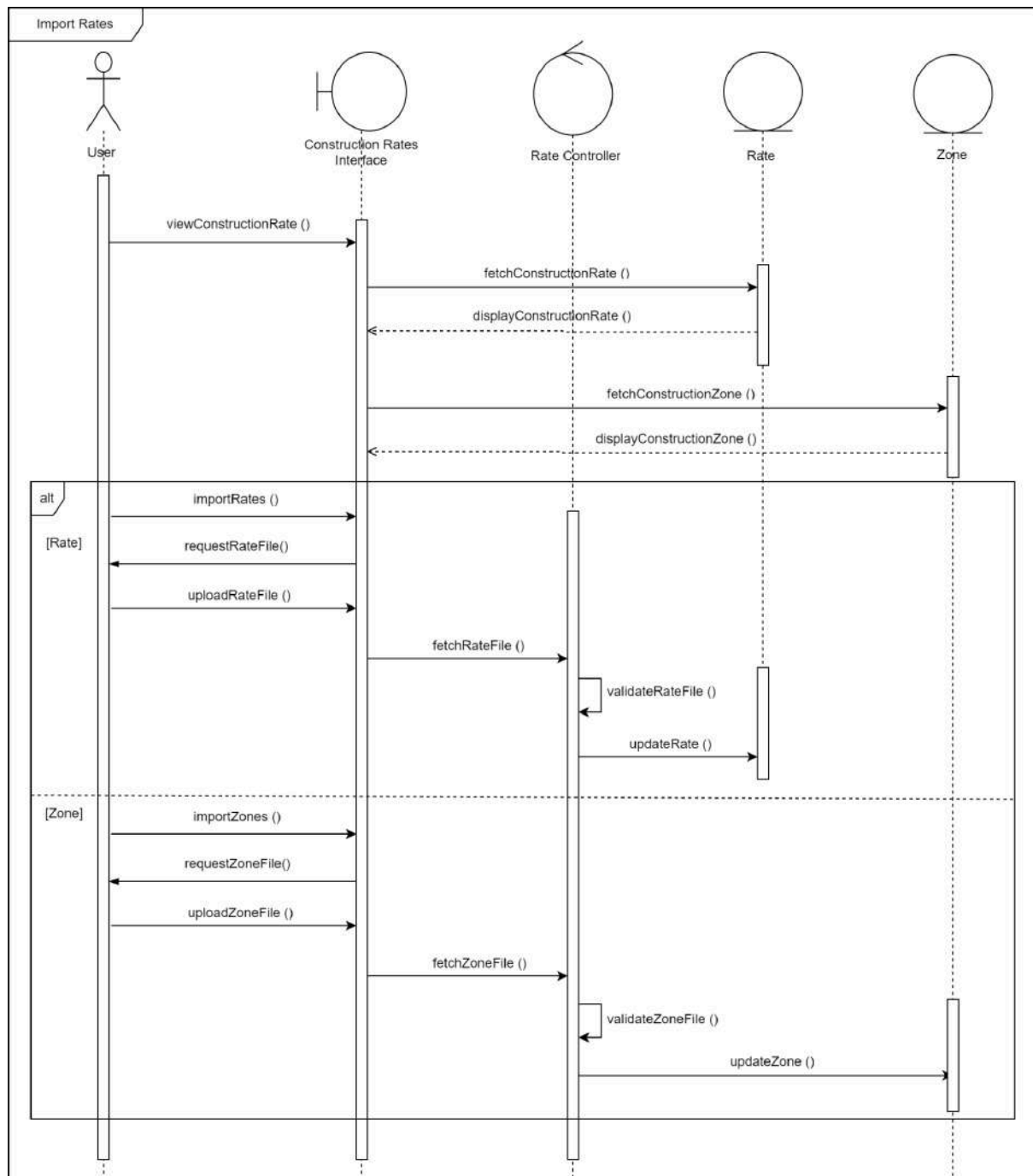


Figure 2.5.7.3.1: Sequence Diagram for <Import Rate>

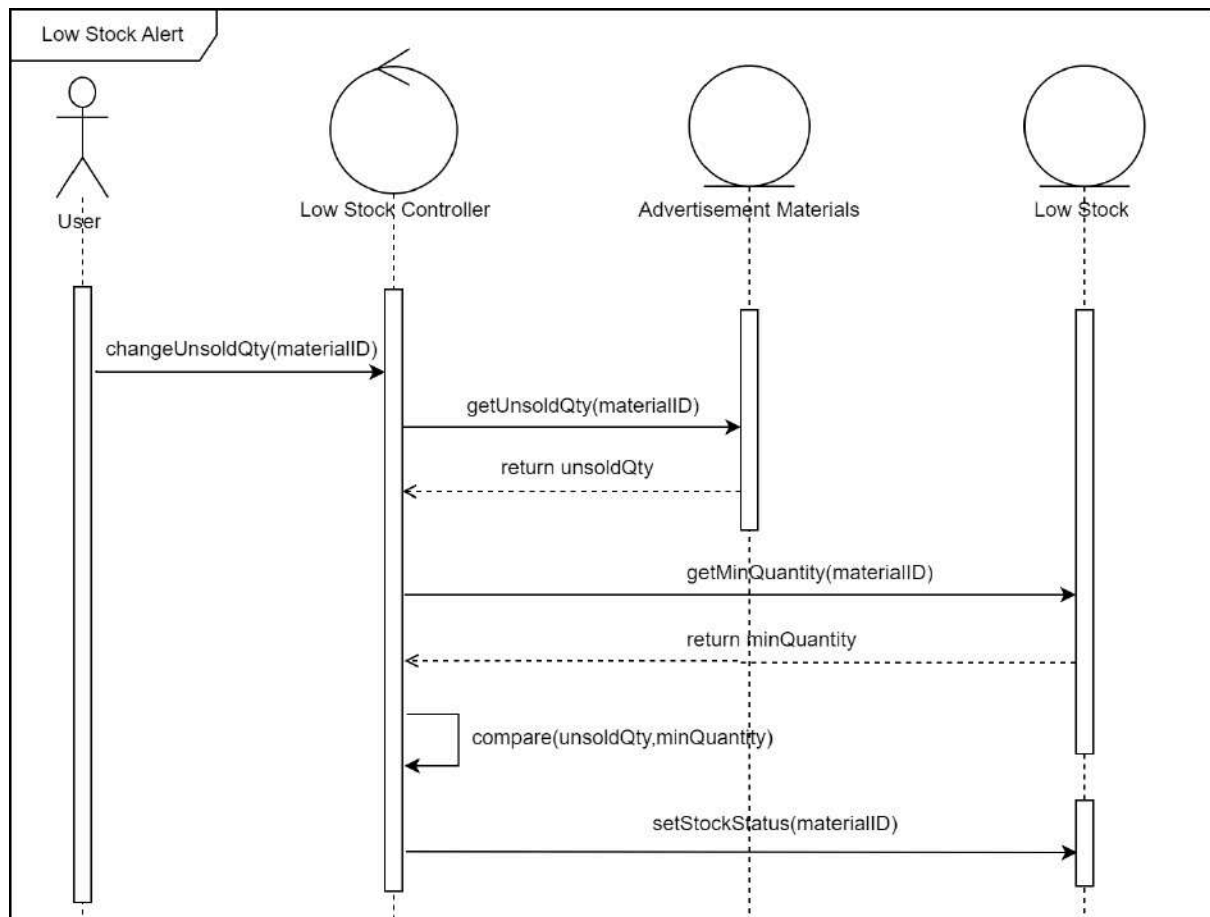


Figure 2.5.7.3.2: Sequence Diagram for <Low Stock ALert>

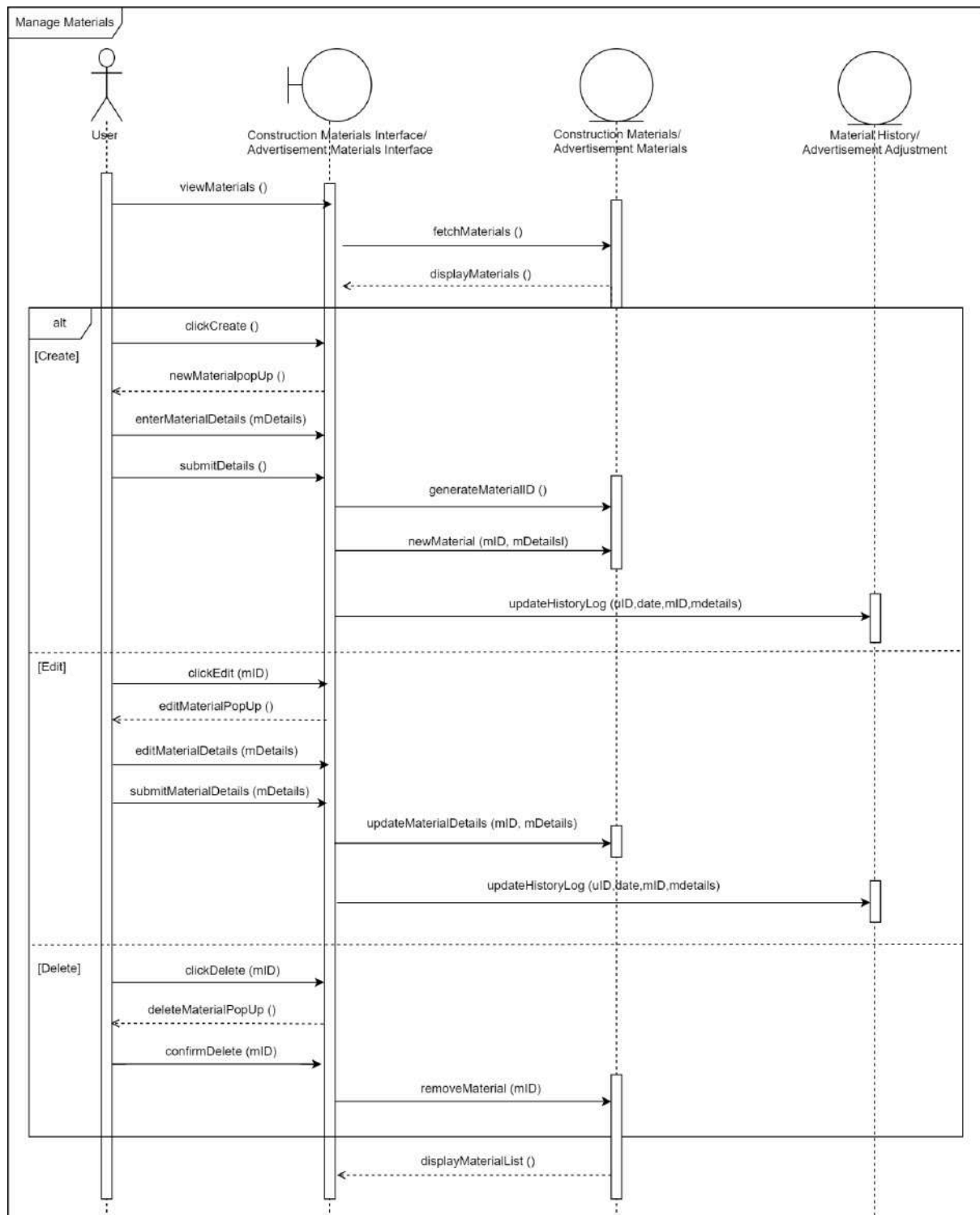


Figure 2.5.7.3.3: Sequence Diagram for <Manage Material>

2.5.8 Module 5: Order Module

2.5.8.1 Use Case Diagram

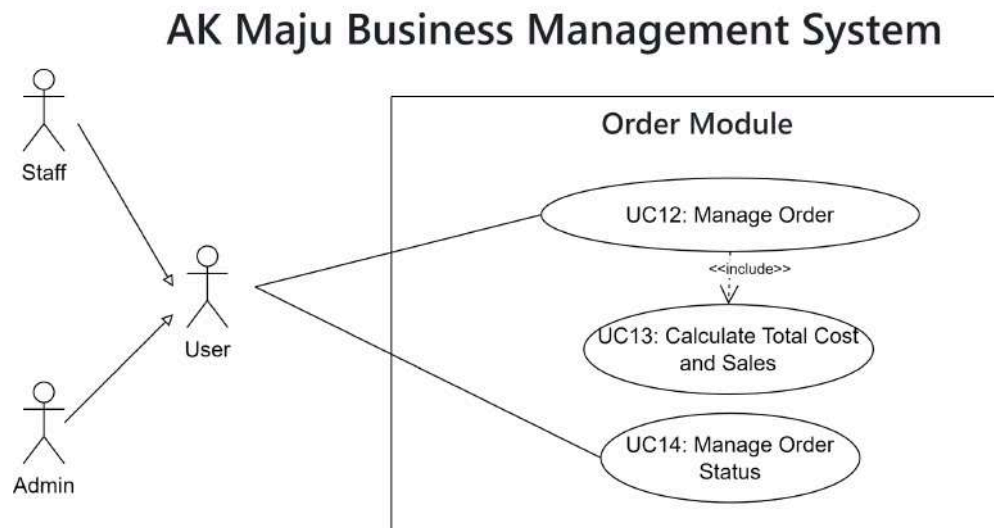


Figure 2.5.8.1.1: Use Case Diagram for Order Module

2.5.8.2 Local Conceptual ERD

Module 5: Order Module

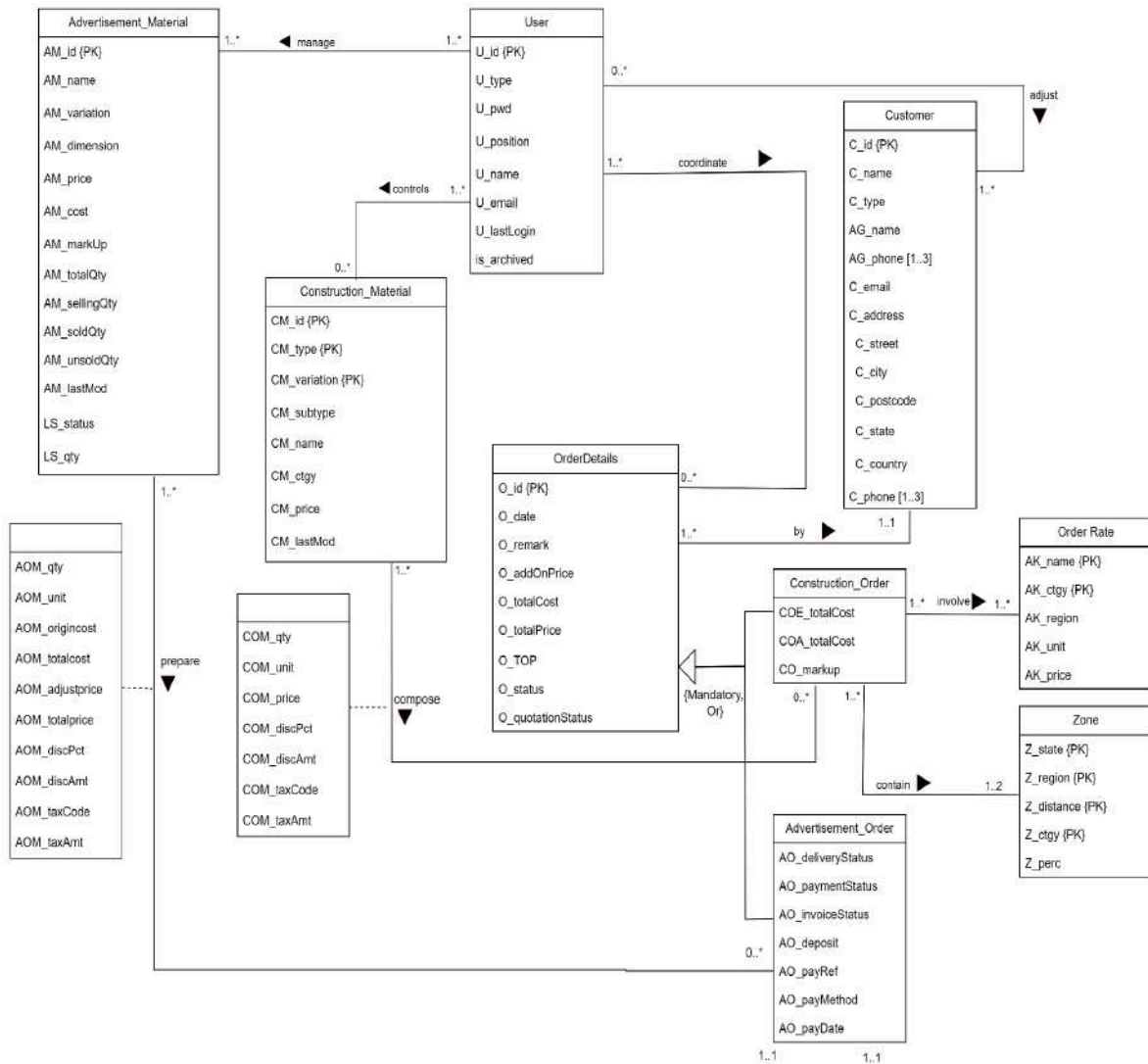
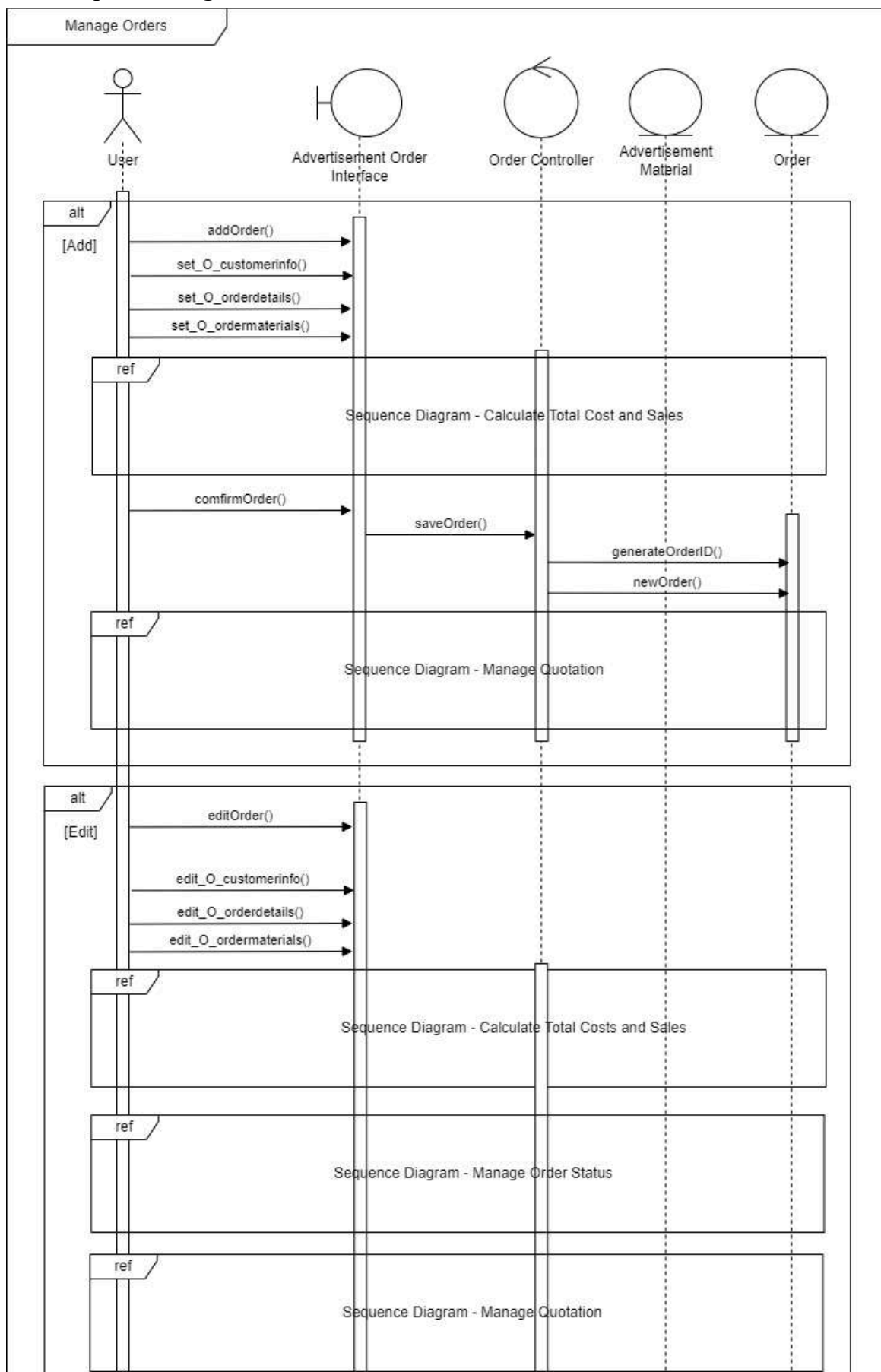


Figure 2.5.8.2.1: Local Conceptual ERD for Order Module

2.5.8.3 Sequence Diagram



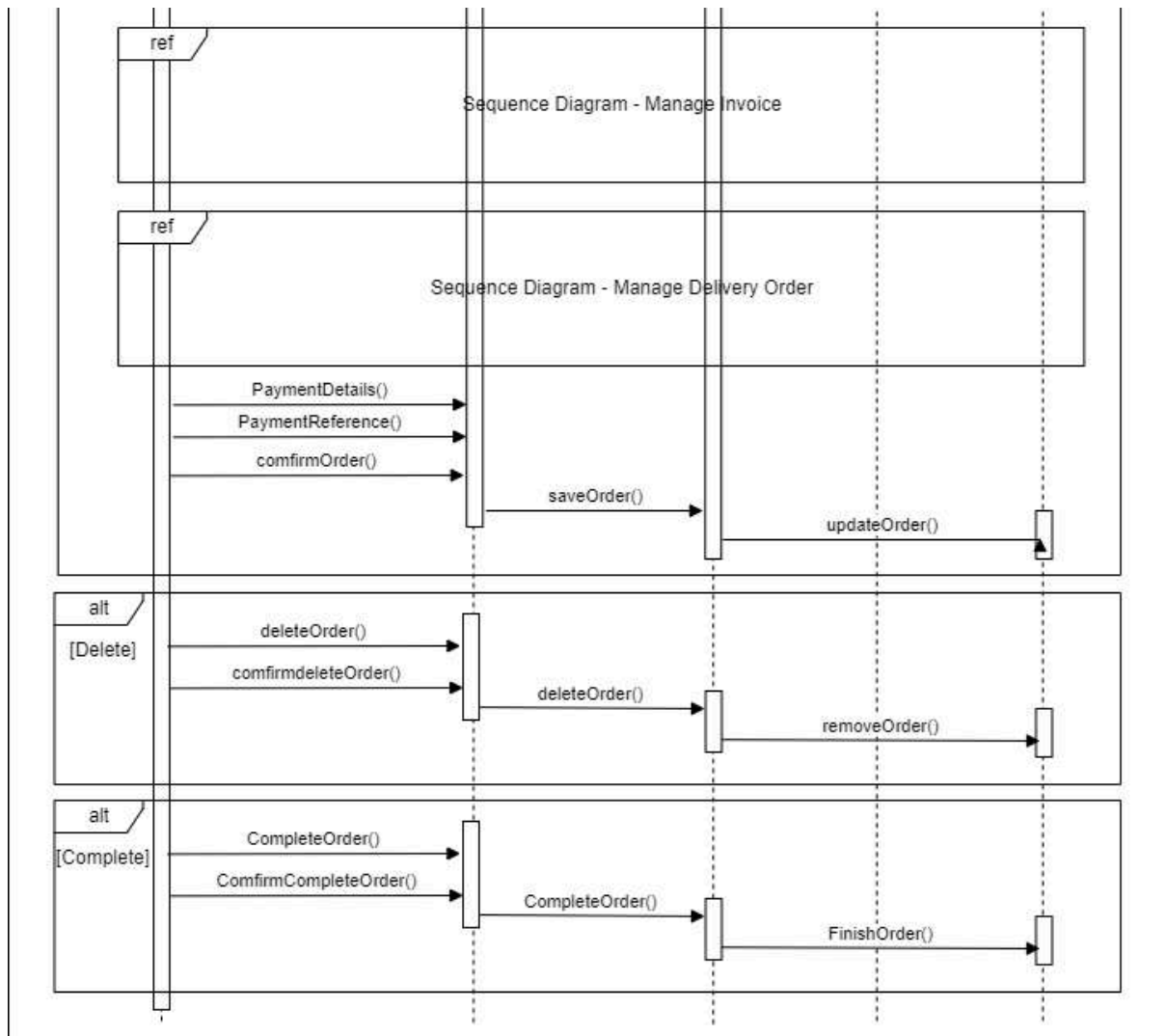
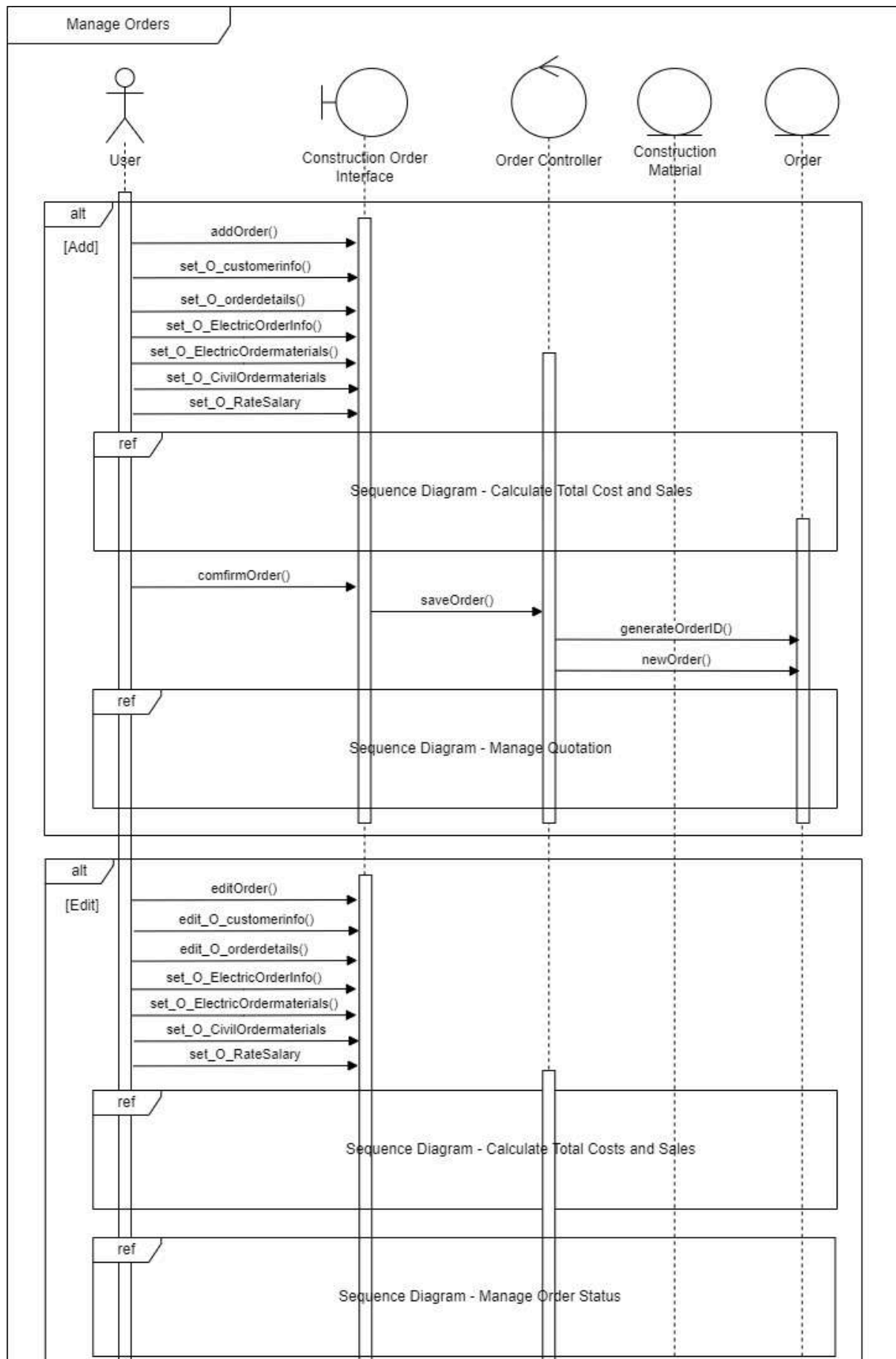


Figure 2.5.8.3.1: Sequence Diagram for <Manage Orders> for advertisement order



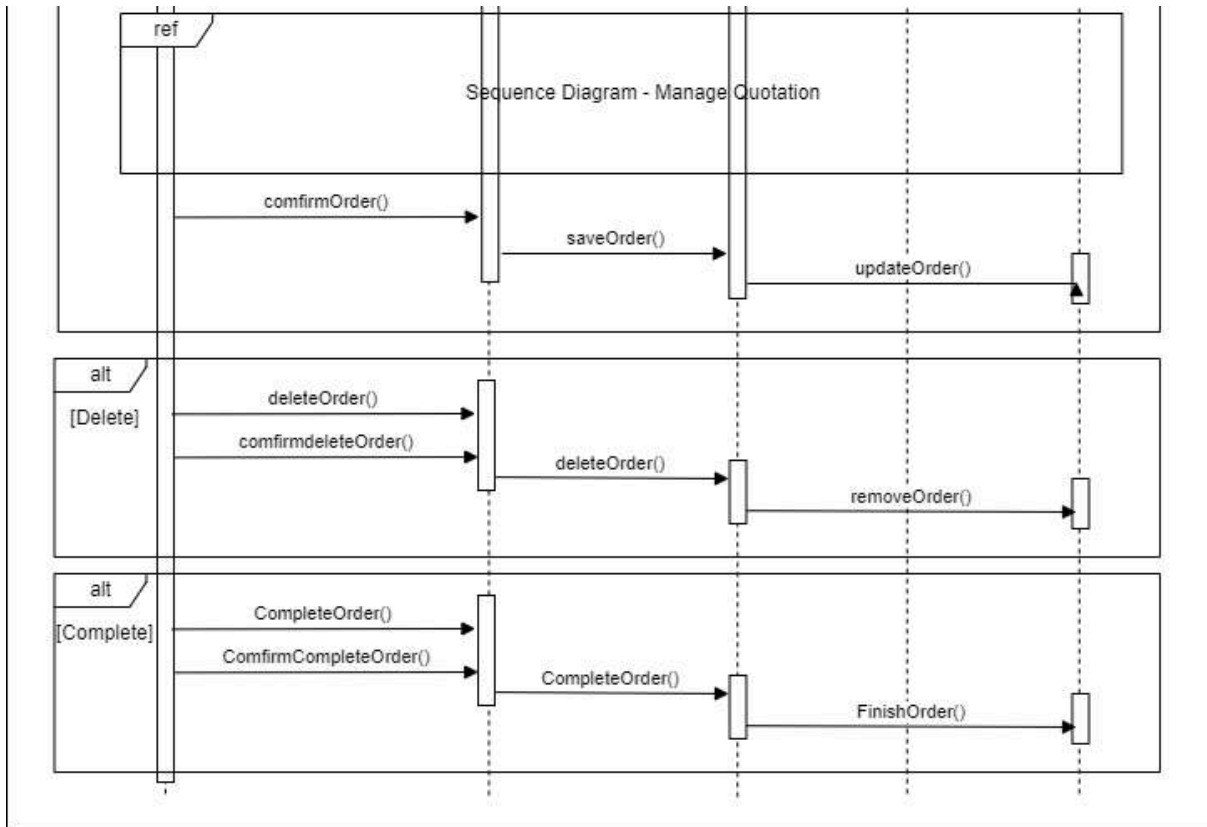


Figure 2.5.8.3.2: Sequence Diagram for <Manage Orders> for construction order

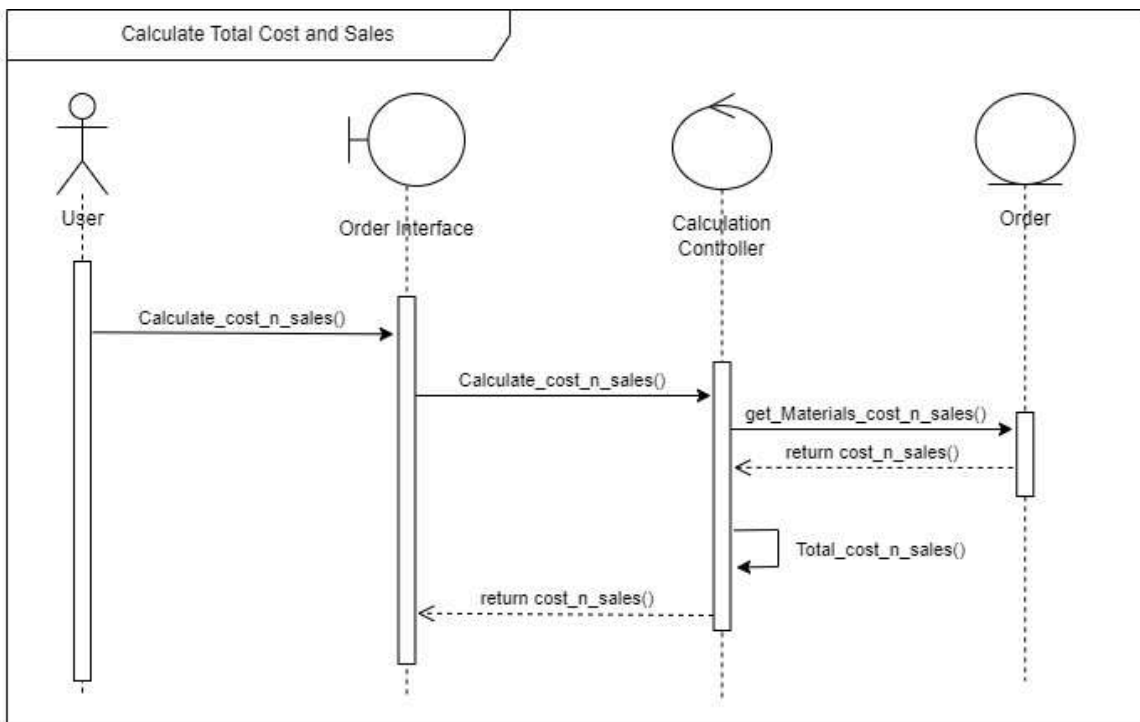


Figure 2.5.8.3.3: Sequence Diagram for <Calculate Total Cost and Sales>

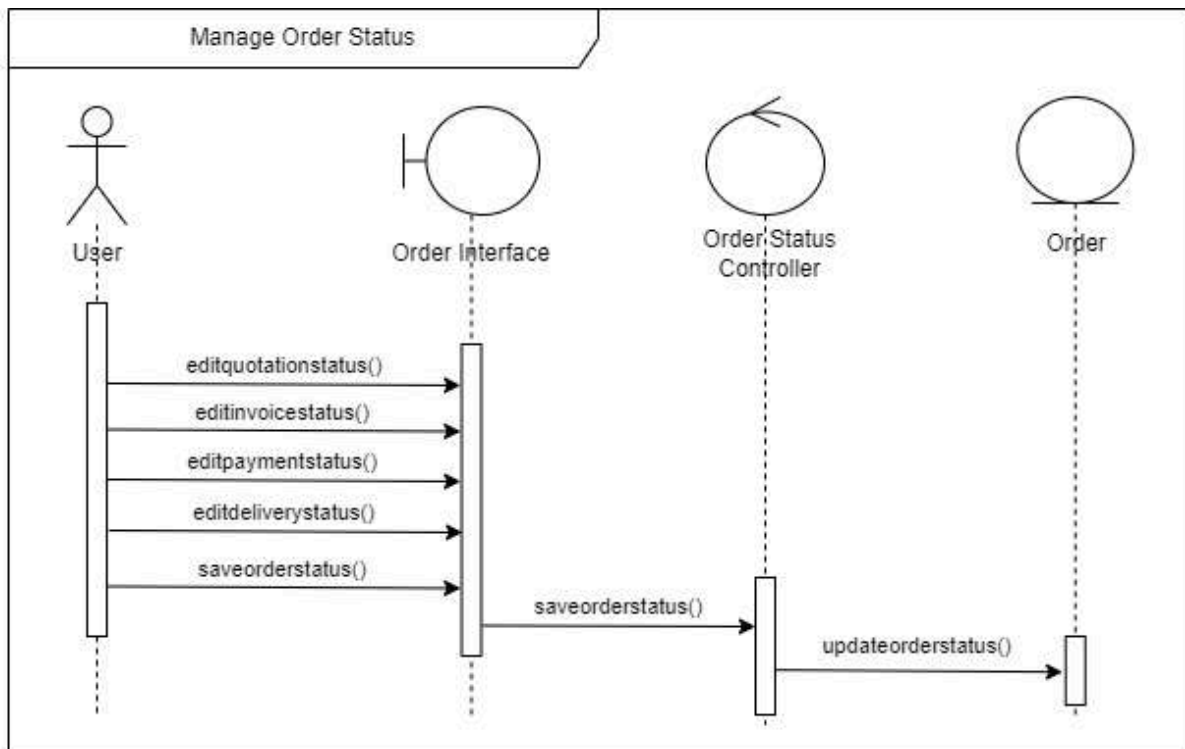


Figure 2.5.8.3.4: Sequence Diagram for <Manage Order Status>

2.5.9 Module 6: Documentation Module

2.5.9.1 Use Case Diagram

AK Maju Business Management System

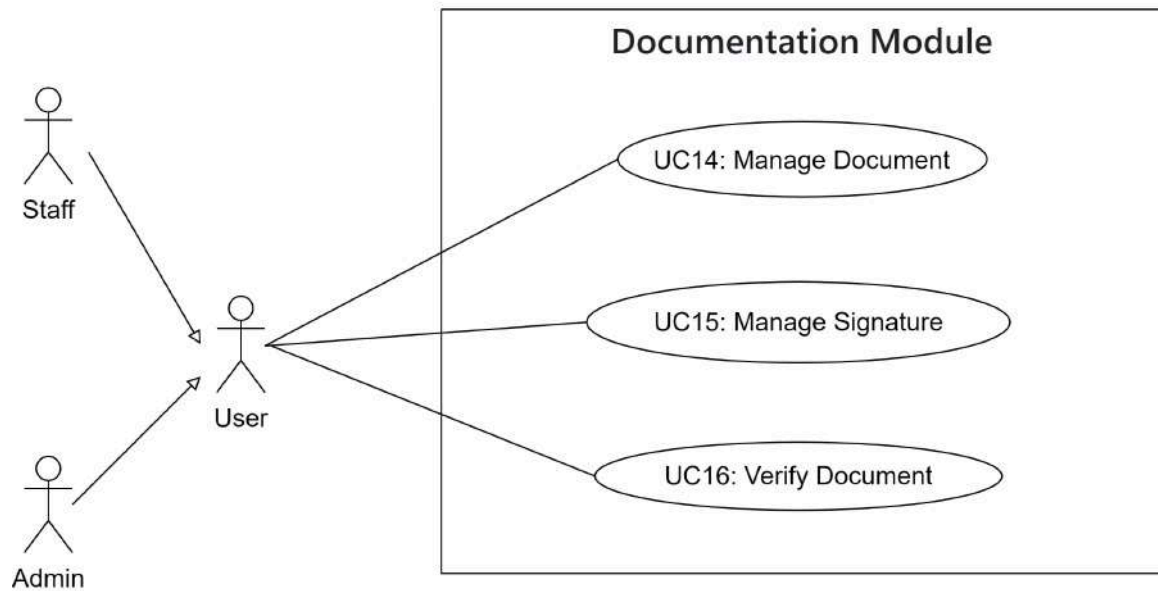


Figure 2.5.9.1.1: Use Case Diagram for Documentation Module

2.5.9.2 Local Conceptual ERD

Module 6: Documentation Module

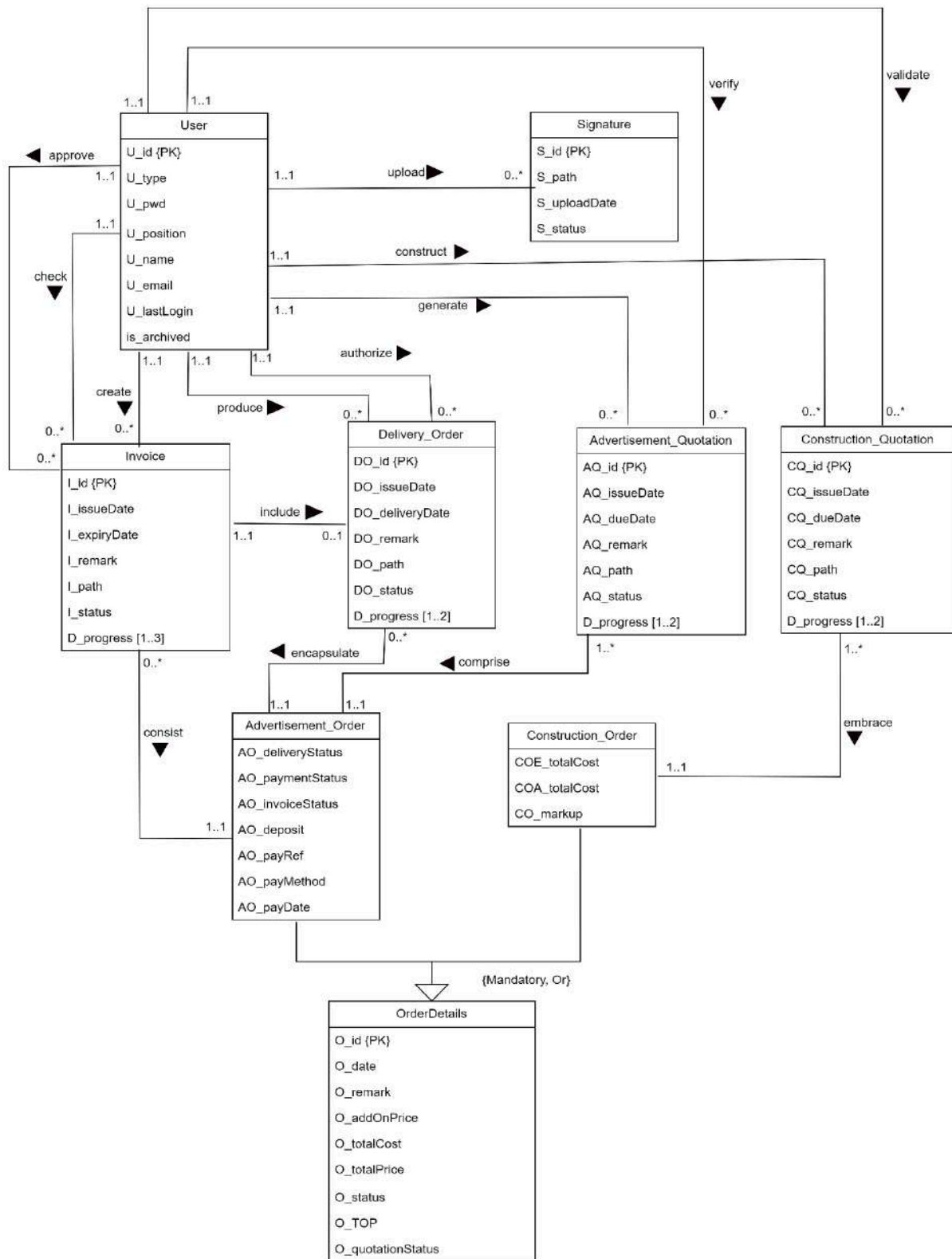


Figure 2.5.9.2.1: Local Conceptual ERD for Documentation Module

2.5.9.3 Sequence Diagram

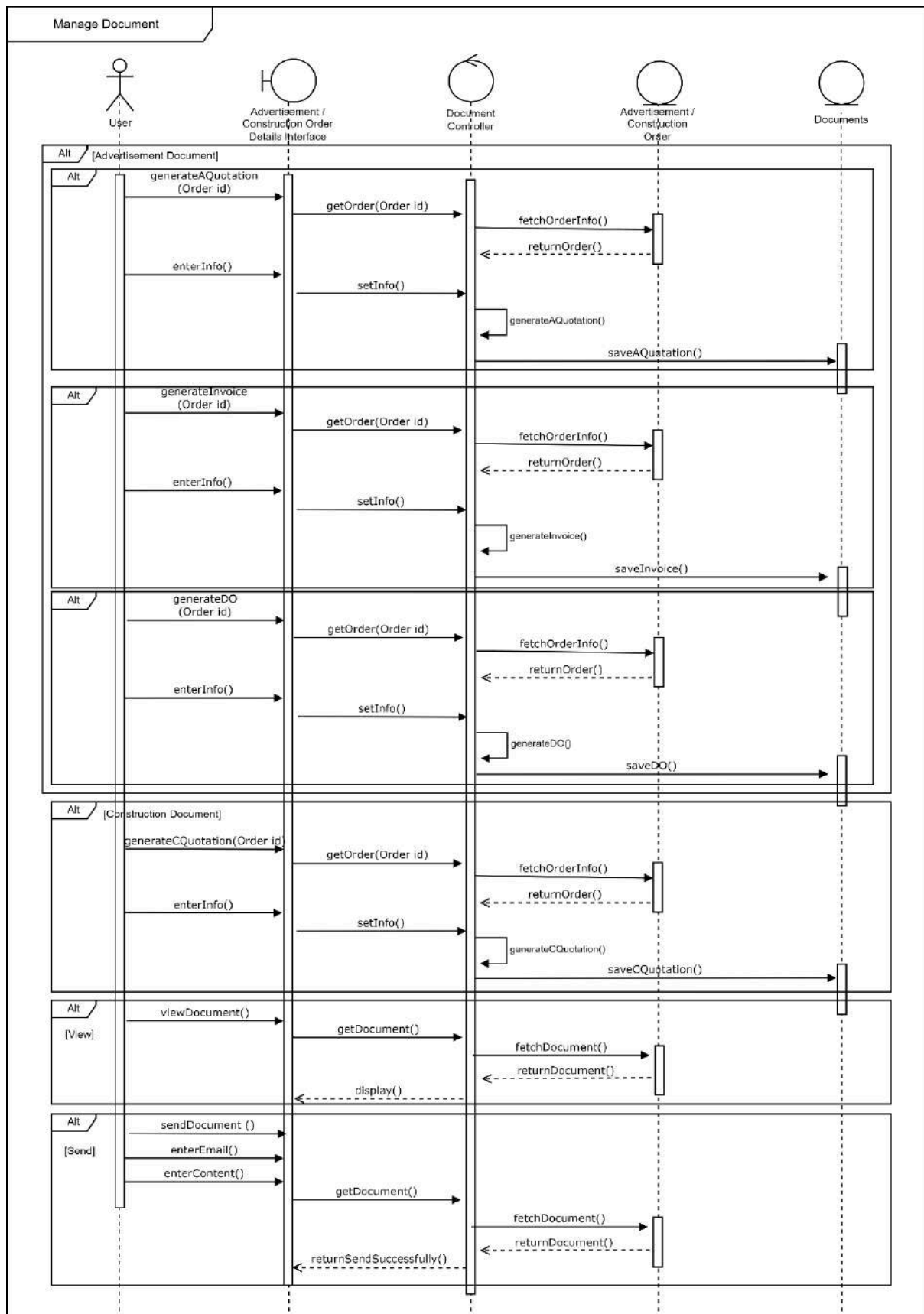


Figure 2.5.9.3.1: Sequence Diagram for <Manage Document>

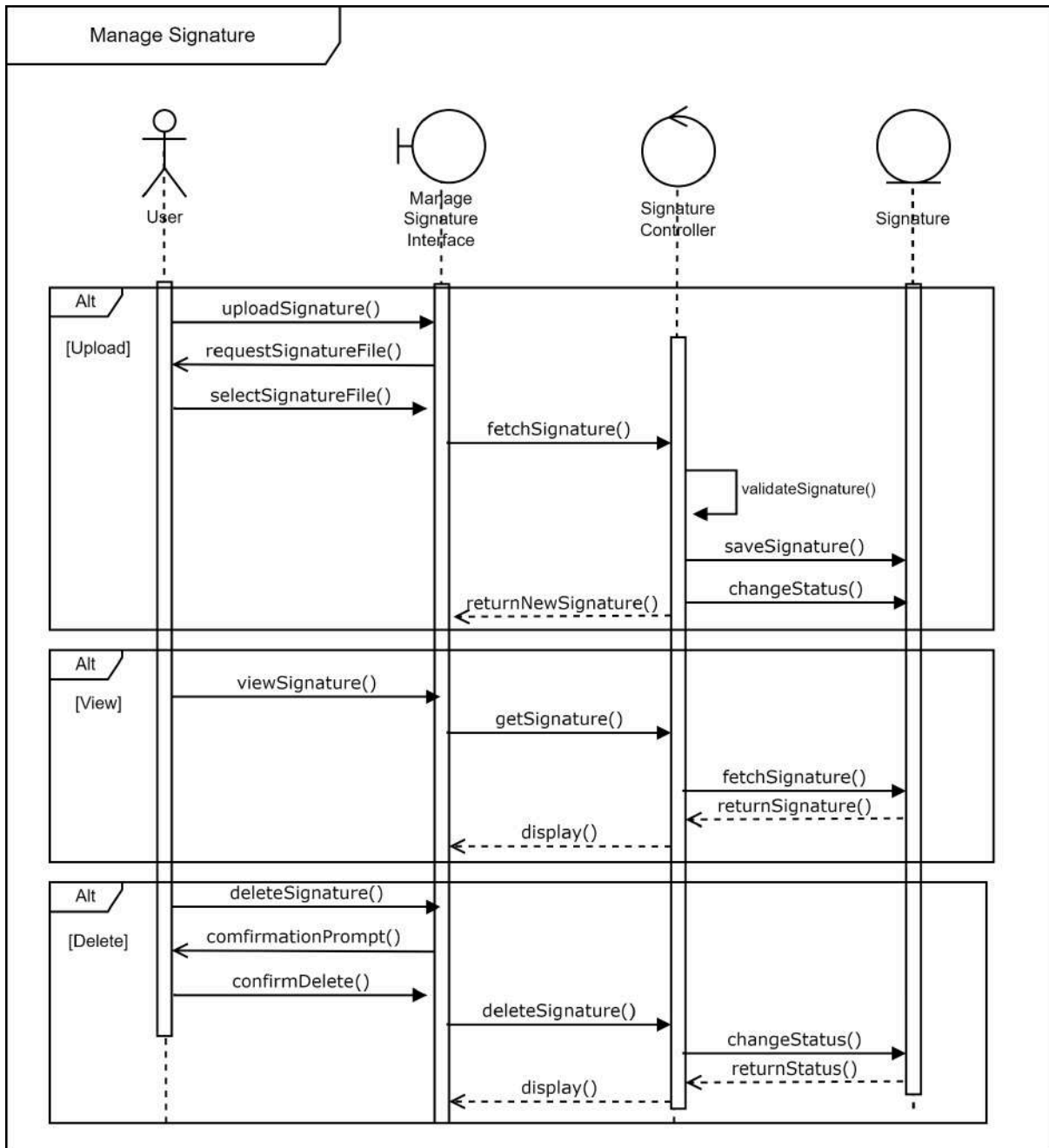


Figure 2.5.9.3.2: Sequence Diagram for <Manage Signature>

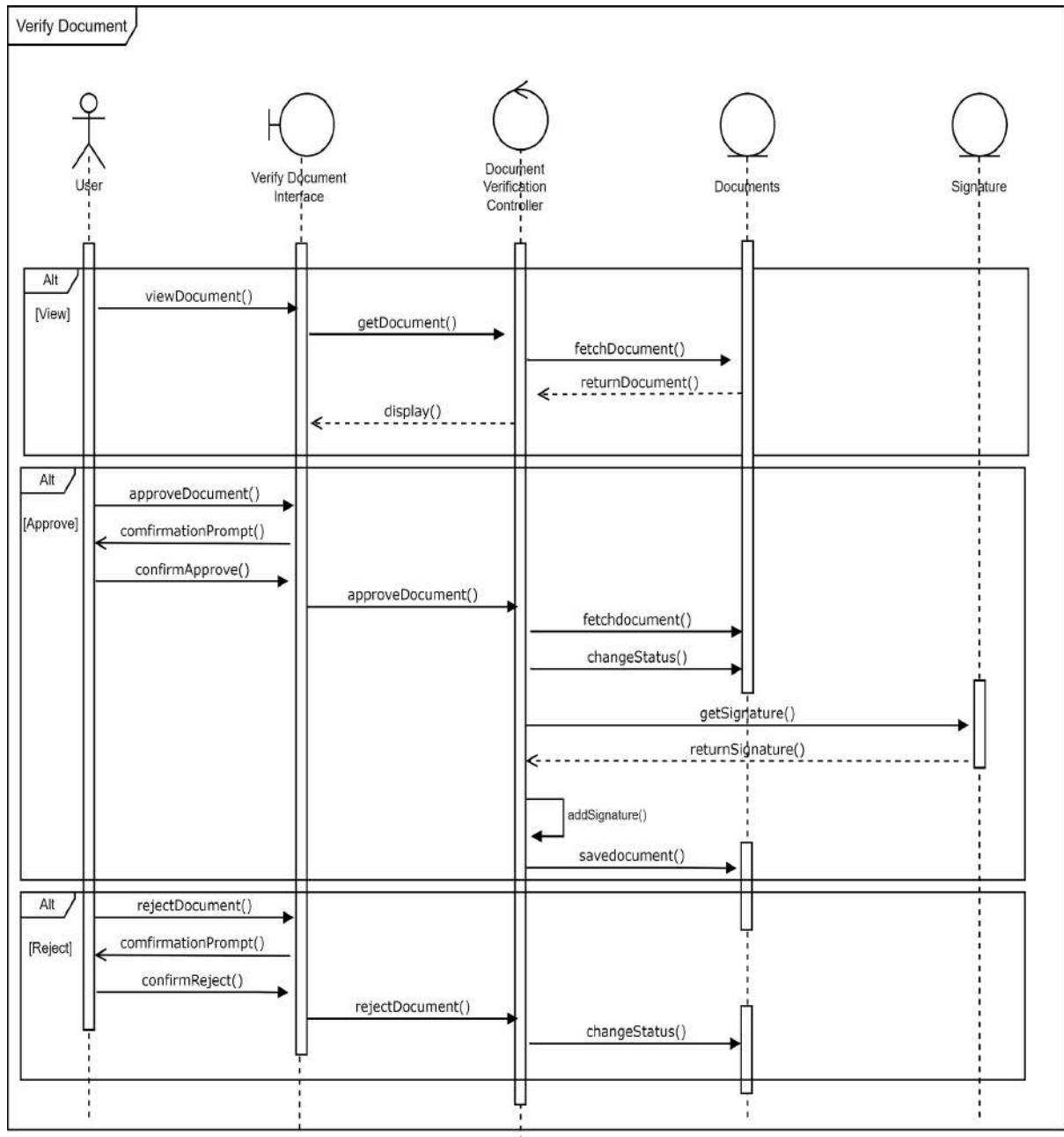


Figure 2.5.9.3.3: Sequence Diagram for <Verify Document>

2.6 Development Software, Language, Technology, API and Tools

2.6.1 Software

The software that we used during the development process of this AK Maju Business Management System are XAMPP Control Panel, Sublime, Visual Studio Code, Google Chrome, FileZilla, Polypane and Bootstrap Studio.

2.6.1.1 XAMPP Control Panel

XAMPP Control Panel is a stack of software packages that simplifies the process of setting up a local web server environment on our computer, which makes it easy to develop and test before deploying them to a live server.

2.6.1.2 Sublime Text

Sublime Text is a cross-platform text and source code editor that supports many programming languages.

2.6.1.3 Visual Studio Code

Visual Studio Code is a free streamlined code editor with support for development operations like debugging, task running, and version control. In this system development, it is used for running the codes and debugging.

2.6.1.4 Google Chrome

Google Chrome is a free open source website developed by Google. It is used to view the User Interface (UI) of this system and help in testing the code functionality during system development of this system.

2.6.1.5 FileZilla

FileZilla is a free file transfer protocol (FTP) open source software that is used for connecting to other FTP servers to exchange files. It is used to exchange files between local hosting and the web server during system development.

2.6.1.6 Polypane

Polypane is a powerful tool to help web developers develop and test every aspect of the site without context switching. It is used to help with web development and creating user manuals during system development.

2.6.1.7 Bootstrap Studio

Bootstrap Studio is a website builder that helps developers design the website and simplify the code to minimise the burden of developers on developing a beautiful website. It is used to design the first draft of the website structure for this system.

2.6.2 Language

There are several programming languages that are used while developing this system, which are HTML, PHP, SQL, CSS and JavaScript.

2.6.2.1 HyperText Markup Language (HTML)

HTML is a standard markup language for Web pages. It is used as the code's main structure when developing this system.

2.6.2.2 Hypertext Preprocessor (PHP)

PHP is an open source scripting language that is widely used to create websites and applications. PHP is mainly used as the connection between the frontend (UI) and the backend (database and functionality of JavaScript) in this system.

2.6.2.3 Structured query language (SQL)

SQL is a programming language that is used to communicate with relational databases. It is used for inserting and managing the data inside the database and used to connect with PHP in the development of this system.

2.6.2.4 Cascading Style Sheets (CSS)

CSS is a programming language that is used to structure web pages of HTML or XML. In this system, it is used to make the web page more arrangeable and beautiful by designing the style of the web page using CSS.

2.6.2.5 JavaScript (JS)

JavaScript is a scripting language that is used to dynamically update content, control multimedia, animate images, and used for more complex functionality in web pages. It is used for designing some complex functionality such as calculating price or order, pop-up when add order, double confirm pop-up and so on in this system.

2.6.3 Technology, API and Tools

There are some tools that we used in our project, which are Trello, Draw.io and JimatHosting website.

2.6.3.1 Trello

Trello is a visual tool that is used to manage project, workflow or task tracking in a team. It is used to track the tasks that are assigned to each member and monitored by lecturers while doing this system.

2.6.3.2 Draw.io

Draw.io is a free online professional diagramming tool that can be used to draw diagrams. It is used to draw all diagrams that are required such as Use Case Diagram, Activity Diagram, Sequence Diagram, ERD and so on during design and development of the system.

2.6.3.3 JimatHosting

JimatHosting is a provider of web hosting services that place their web server in Malaysia. It is chosen as the web host as it consists of the cheap price host, and its server is located in Malaysia. This can help the website load faster and make the user have a better user experience.

2.7 Function/Module Explanation

Module 1: Authentication

The [index.php](#) displays the login form for both staff and admin users. Their entered credentials are validated against the user database through [loginprocess.php](#). On successful login, staff and admins are redirected to their respective dashboards. If they click the 'Forgot Password' link on the login form, they are redirected to the [forgotpassword.php](#) page which requires their registered email address. This triggers an email to the user containing a unique link for resetting their password on [reset-password.php](#). Finally, [logout.php](#) handles terminating the user session and redirecting back to the login page at [index.php](#).

The admin can control all users on [manageuser.php](#) page. This centralised interface displays active and inactive users, allowing the admin to search, view details, and perform actions on users as needed - without having to leave this page. Interactive modals on [manageuser.php](#) handle all actions like creates, edits, deletes and restores. To create a new user, the admin fills out the form fields in the New User modal which then get validated and inserted into the database by [adduserprocess.php](#) running behind. To modify an existing user, the admin can select them from [manageuser.php](#) and open the Edit User modal to change their information, with the updates by [edituser.php](#). For deleting users, the admin clicks on the delete button beside a user on [manageuser.php](#) then confirms the account deletion via a modal. Then the input is passed to [deleteuser.php](#) and updates the user status to active. And erroneous deletions can be undone by clicking the restore button to call [restoreuser.php](#) to activate the user.

Module 2: Dashboard

Staff

Staff can access the staff dashboard through [staffDashboard.php](#). Within this dashboard, the staff can view current order status, adjustments and low-stock items. The adjustment items and low-stock items are shown in the tables, respectively. The current order status includes details such as the number of pending approval documents, the number of unpaid orders, the number of undelivered orders and the number of completed orders. This order status information is obtained through the [mr.php](#) file.

Admin

Admin can access the admin dashboard through [adminDashboard.php](#). The admin dashboard encompasses all functionalities available to staff members. Additionally, the admin can also view the summarised monthly reports, including metrics such as total products sold, total orders, total profit, best-selling products ranking and top spenders ranking to the admin through interactive charts or graphs. All of these metrics are calculated and obtained through [mr.php](#). They are also allowed to select specific years and months for viewing. For detailed monthly reports, the admin can download monthly report files by clicking the “Download” button for Transaction Listing Report (generated in [TransactionListingMR.php](#)), Stock Balance Report (generated in [StockBalanceMR.php](#)) or Profit and Loss Monthly Report (generated in [ProfitLossMR.php](#)). Furthermore, the admin can utilise [pdf_maker.php](#) to send monthly reports. After the admin clicks the “Send” button, a pop-up appears, prompting them to input the email address for the recipient. After entering the email address and clicking the “Send” button, the system generates a response indicating either success or failure in the email delivery process.

Module 3: Customer Management

Staff

Staff are able to view the customer information in [customer.php](#), such as customer ID, name, email, address and phone number. Staff can search for the customer that they want to search by customer details. If the customer is the representative of a government or agency, the government or agency information will be recorded in the table, which are government name, government phone, agency name and agency phone.

Admin

Admin can view the customer information in [customer.php](#) same as Staff. However, only Admin can export the customer information. To export customer information, admin can either choose the provided range of date such as 1 month, or choose the “Date From” and “Date To” to select the customer that makes an order in the range of date, or just not choose the range of date and it will export all customer information without limit the date. After the admin chooses the range of date, click on “Export” button and it will generate the excel page in [exportcustomer.php](#). Then, the generated excel will automatically download the excel to the admin computer for them to view in excel.

Module 4: Material Management

Advertisement Material

Both staff and admin can control all advertising materials on the [admaterial.php](#) page. This centralised interface displays active and archived materials, allowing users to search, view details, and perform actions on materials like creates, edits, deletes and restores without having to leave this page. Additionally, staff and admin can add new material types and edit existing types through [addAMType.php](#) and [editAMType.php](#). To add a new material, users fill out the form fields in the New Material modal which then get validated and inserted into the database by [addAmaterial.php](#) running behind. To modify an existing material, the admin can select the material and open the Edit Material modal to modify its information, with the updates by [editAmaterial.php](#). For deleting materials, the admin clicks on the delete button beside a material and confirms the removal via a modal. Then the input is passed to [deleteAmaterial.php](#) and updates the material status to archived. And erroneous archivals can be undone by clicking the restore button to call [restoreAmaterial.php](#) to reactivate the material. Staff and admin can also view a full history of changes made to material pricing, costing, and available quantities via the [admaterial-history.php](#) page.

Construction Material and Rates

Both staff and admin can control all construction materials on [cmaterial.php](#) page. This centralised interface displays active and archived materials, allowing users to search, view details, and perform actions on materials like creates, edits, deletes and restores without having to leave this page. Additionally, staff and admin can add new material types and edit existing types through [addCMType.php](#) and [editCMType.php](#). To add a new material, users fill out the form fields in the New Material modal which then get validated and inserted into the database by [addCmaterial.php](#) running behind. To modify an existing material, the admin can select the material and open the Edit Material modal to modify its information, with the updates by [editCmaterial.php](#). For deleting materials, the admin clicks on the delete button beside a material and confirms the removal via a modal. Then the input is passed to [deleteCmaterial.php](#) and updates the material status to archived. And erroneous archivals can be undone by clicking the restore button to call [restoreCmaterial.php](#) to reactivate the material. Furthermore, order rates and zone rates details can be viewed on the [rate.php](#) page.

New data can be imported via the [import.php](#) or [upload.php](#) to upload a csv file containing price or percentages based on state and district and region.

Module 5: Order Management

For the order part, it is designed that both staff and admin have the same functionality, but it is separate to advertisement and construction order, since it consists of some different functionality and similar functionality in both pages.

Order Main Page

Both advertisement and construction order main page are the same, where advertisement order main page is in [AOrder.php](#), and construction order main page is in [COrder.php](#). In this page, it consists of an “Add Order” button that is used to add a new order. Other than that, this page consists of three tables, which are Order Info table (current order that hasn't completed), Cancelled Order (order that cancelled) and Complete Order (order that completed). Both three tables consist of information such as order ID, order date, customer name, contact number, order remark, total price, total cost and action. The differences for three tables is in the Action column, where for Order Info table it will consist of manage order, delete order and complete order button, but for Cancelled Order and Complete Order table, they only consist of view order button.

Add Advertisement Order

For add advertisement order, it can be done by clicking on the “Add Order” button in [AOrder.php](#) page, and it will lead to [AddAOrder.php](#) page. In this page, users are required to fill in the customer information if it is ordered by a new customer, or they can choose an existing customer (customer that ordered before). After filling in customer information, the next step is to fill in the order details which includes order date, remark and term of payment. By clicking on the “Add Order Material” button, it will lead to [saveAOM.php](#) page to save the order information, and direct to [saveAOM2.php](#) page.

In this page, users will start to fill in the order material information. Users can add multiple order material by filling in the order material details in this page (if save material will direct to [save_Aaddorder.php](#)), and this page is designed to avoid user fill in material that does not exist in the database. Nonetheless, there is also a Material Selected table that lists all of the material selected by the user for them to check the list of material, and users can edit (direct to [save_Aedited_material.php](#)) and delete the selected material (direct to [delete_Amaterial.php](#)) in this table. After fill in all material details, users can click on “Order Summary” button and it will direct them to [saveorder.php](#) page.

Next, this page is an order summary page, and it consists of an order summary table and quotation card. For the Order Summary table, it consists of the details of the summary for this order, such as order id, date, customer name, contact number, total cost and total price of this order. Users can also manage quotations by generating them on this page (details will be written in Module 6) .

Add Construction Order

For add construction order, it can be done in five steps, which is to fill in order details, add electric order material, add rate salary, add civil order material and order summary. Users can direct to add construction order by clicking on “Add Order” in [COrder.php](#) page, and it will lead to [AddCOrder.php](#) page. At first, similar to add advertisement order, users are required to fill in customer information and order details, but it has some difference that users are required to fill in electric and civil information such as state, region, distance and any add-on percentage due to transportation problems. After filling in all details, the user clicks on the “Add Electric Order Material” button and it will lead to [save_Corder.php](#) to process and save the order, and direct to [AddCEOrdermaterial.php](#) page.

In this page, users will be required to fill in the electric order material as a similar method for filling in the order material in the Add Order Material in Advertisement page. After filling in all order material, the user will click on the “Add Kejuteraan Kadar” button and it will lead to [AddKABuruh.php](#) page. Users can add Labor Wage Rate and Lodging Rent Rate in this page and save them. Users can also view the list of Labor Wage Rate and Lodging Rent Rate in the table, and delete the selected items. After this, the user will click on “Add Kejuteraan Order Material” button and direct to [AddKAOrdermaterial.php](#) page.

This page is also similar to the Add Electric Order Material and Add Advertisement Order Material, where users can add civil order material, view the list of civil order material, edit and delete civil order materials. After the user is done managing the civil order material, the user will click on the “Order Summary” button and it will lead to [save_CAddorder.php](#) page. This page will list the order summary, and enable users to edit the order markup (the percentage of profit in one order). Other than that, users can also generate quotations in this page (details written in Module 6).

Manage Advertisement Order

Users can direct to this page by clicking the blue book icon for select order in Order Main Page ([AOrder.php](#)) and it will direct to [EditAOrder.php](#). By default, all the details in this page, including Customer Information, Order Details, Material Selected, Quotation, Invoice, Delivery Order, Order Status, Order Summary, Order Payment and Payment Reference are stored in cards, collapsed and viewed only. Users can open the cards by clicking on the collapse card to view the information and click on the “Edit” button on the top-right to edit the information. After editing the information, the user can click on the “Save” button to save the changes. For order material, users can either add, edit or delete the order material in the “Material Selected” card. Other than that, users can generate, view and email the documentation, such as quotation, invoice and delivery order in this page (details written in Module 6). Users can also manage the order status of the order, including quotation status, invoice status, payment status and delivery status. Since advertisement order includes payment, thus users can record the order payment and manage the payment reference (include upload, view, delete and restore) in this page.

Manage Construction Order

Users can direct to this page by clicking the blue book icon for select order in Order Main Page ([COrder.php](#)) and it will direct to [EditCOrder.php](#). There are some similarity of manage construction order with manage advertisement order such as Customer Information, Order Details and Order Summary, but there are also some difference such as Electric Information, Civil Information, Electric Order Material, Civil Order Material, Order Rate, Order Status (only quotation), quotation document and all of them are also store in collapsed cards. For Electric Information and Civil Information, both of them are similar to the Add Construction Order part, which allows users to edit state, region, distance and add-on percentage due to transportation problems in [EditCOrder.php](#) page. In addition, Electric Order Material (in [EditCOrdermaterial.php](#) page) and Civil Order Material (in [EditKAOrdermaterial.php](#) page) also similar as Add Construction Order, where allowed users to add, edit and delete order material for the order. Furthermore, users can edit order rates similar to Add Construction Order in [EditKABuruh.php](#) page, which can add and delete both Labor Wage Rate and Lodging Rent Rate. Lastly, in the Order Summary page for Edit Order, users can edit the order markup (percentage of profit), view order summary, and manage the quotation (details written in Module 6) in [save_CEditororder.php](#) page.

Delete Order

For Delete Order, users can click on the red trash button in both advertisement ([AOrder.php](#)) and construction ([COrder.php](#)) order main page for selected order. After they click on the delete button, the system will pop-up an alert to double confirm the user really wants to delete the order to avoid accidentally clicking on it. After delete order, the order will be listed in the Cancelled Order Table and allow the user to view the order details for the order only.

Complete Order

For Complete Order, users can click on the green tick button in both advertisement ([AOrder.php](#)) and construction ([COrder.php](#)) order main page for selected order. After they click on the complete button, the system will pop-up an alert to double confirm the user really wants to complete the order to avoid accidentally clicking on it. If it is an advertisement order, users only can complete the order when the payment status for the order is “Fully Paid”, while for construction order can be completed after double confirmation with no obstruction. After complete order, the order will be listed in the Completed Order Table and allow the user to view the order details for the order only.

View Order Details after delete or complete order

For advertisement order, users can direct to View Order Details page ([AOrderDetails.php](#)) by clicking on blue book buttons in Advertisement Order Main page ([AOrder.php](#)) for the selected order in Cancelled Order table or Completed Order table. In this page, users can view the customer information, list of order material, order status, documentation (quotation, invoice and delivery order), order payment and order summary.

For construction order, users can direct to View Order Details page ([COrderDetails.php](#)) by clicking on blue book buttons in Construction Order Main page ([COrder.php](#)) for the selected order in Cancelled Order table or Completed Order table. In this page, users can view customer information, electric information, civil information, list of labour wage or lodging rent rate, list of electric order material, list of civil order material, quotation and order summary.

Module 6: Documentation

Both staff and admin can perform the same action for advertisement documents, construction documents and signatures. However, for document verification, they have different levels of access privileges.

Generate, View and Send Advertisement Documents

Users can generate advertisement quotations, invoices and delivery orders in [EditAOrder.php](#) or [saveorder.php](#). A pop-up will appear after the user clicks the “Generate” button, prompting them to input the required information, such as the remark. The information will then be transferred to specific processing scripts: [generateAQ.php](#) for advertisement quotations, [generateDO.php](#) for delivery orders, and [generateInvoice.php](#) for invoices, respectively, and the document will be generated. These scripts automatically populate fields such as customer information, document ID, issue date, SST registration number, payment terms (entered in the order module), and item details (also entered in the order module). For advertisement quotations and delivery orders, the status will change to “Pending Approval” once they are generated, while for invoices, the status will change to “Pending Review and Approval”. Besides, the user can view the advertisement quotation in [openAquotation.php](#), the invoice in [openInvocie.php](#) and the delivery order in [openDO.php](#) after clicking the “View” button. After clicking the “Send” button, they can also send the advertisement quotation through [emailAQ.php](#), invoice through [emailInvoice.php](#) and delivery order through [emailDO.php](#).

Generate, View and Send Construction Documents

Users can generate the construction quotations in [save_CEditorder.php](#) or [save_CAddorder.php](#). Upon clicking the “Generate” button, a pop-up prompts the user to input necessary information, including the due date and the remark. The entered information is then passed to the script [generateCQ.php](#) to create the construction quotation. Similar to the advertisement quotation generation process, various fields in the quotation are automatically filled, including customer information, quotation ID, issue date, SST registration number, payment terms (entered in the order module), and item details (entered in the order module). The status of the quotation will change to “Pending Approval” once it is generated. In addition, the user can view the generated construction quotation through [openCquotation.php](#) or utilise [emailCQ.php](#) to send the construction quotation to the customer via email.

Verify Documents

Staff

The staff can check the invoice generated in [staffVerification.php](#). They can click the “View” button to open the invoice for review. After reviewing, they can click the “Check” button to approve the invoice or the “Reject” button to reject it. The checked response will pass to [staffVerificationProcess.php](#), and the invoice status will change to “Pending Approval”, while the rejected response will pass to [staffReject.php](#), and the invoice status will change to “Rejected”. In addition, they can view all the advertisement quotations, construction quotations, invoices and delivery orders here, no matter their status.

Admin

In the [adminVerification.php](#) page, the admin can verify various documents, including advertisement quotations, construction quotations, invoices and delivery orders. They can review the contents of the respective documents by clicking the “View” button. After viewing the documents, the admin can take further actions such as checking, approving or rejecting them. By clicking the “Check” or “Approve” button, the response is processed through [adVerificationProcess.php](#). For documents initially marked as “Pending Approval,” the status will change to “Approved” after approval. However, for invoices initially labelled as “Pending Review and Approval,” the status will change to “Pending Approval” following the checking process. In the case of rejection, the admin can click the “Reject” button. The reject response is handled by [adminReject.php](#), resulting in a status change for the corresponding invoice to “Rejected.”

Manage Signature

Users can upload their signatures for the document approval process in [signature.php](#). They can click the “Upload” button and select the image to upload. After that, the image will pass to [upload.php](#), and the signature will be saved in the database. If there is an existing signature for a particular user, the existing signature will become “Inactive” and the new signature will become “Active”. The user can also delete the signature by clicking the “Delete” button. It will be passed to [deleteSig.php](#), and the signature status will become “Inactive”.

2.8 System Credentials (Hosting)

Website address: <https://akmaju.com/AKMaju/>

Login to JimatHosting using gmail

Gmail: akmaju30@gmail.com

Password: jimatHosting3!

JimatHosting CPanel

Username: akmajuco

Password: JoeX0VS2:%C4

User Credentials

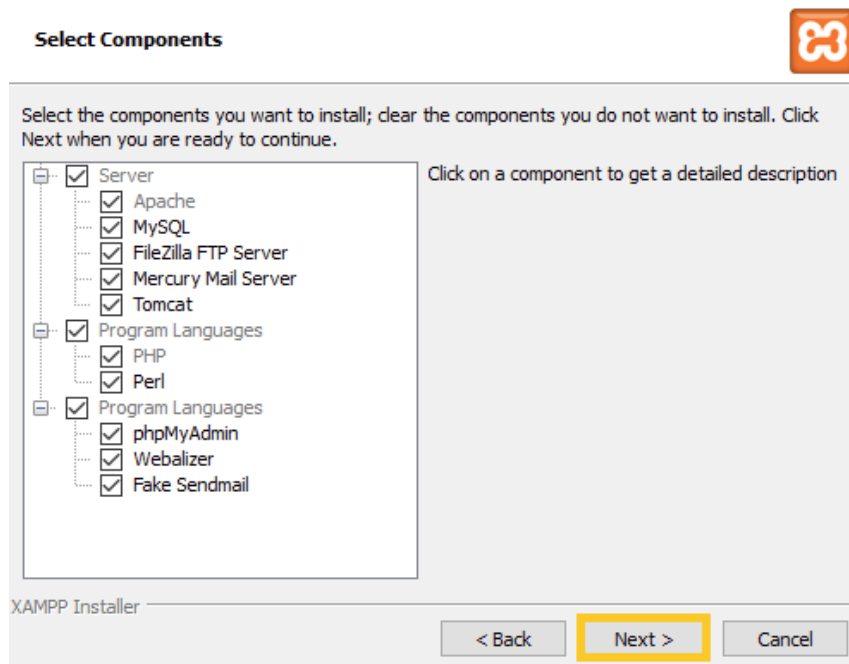
Admin ID: 003	Staff ID: S07
Admin password: polo123	Staff password: abc1234

2.9 Localhost Setup

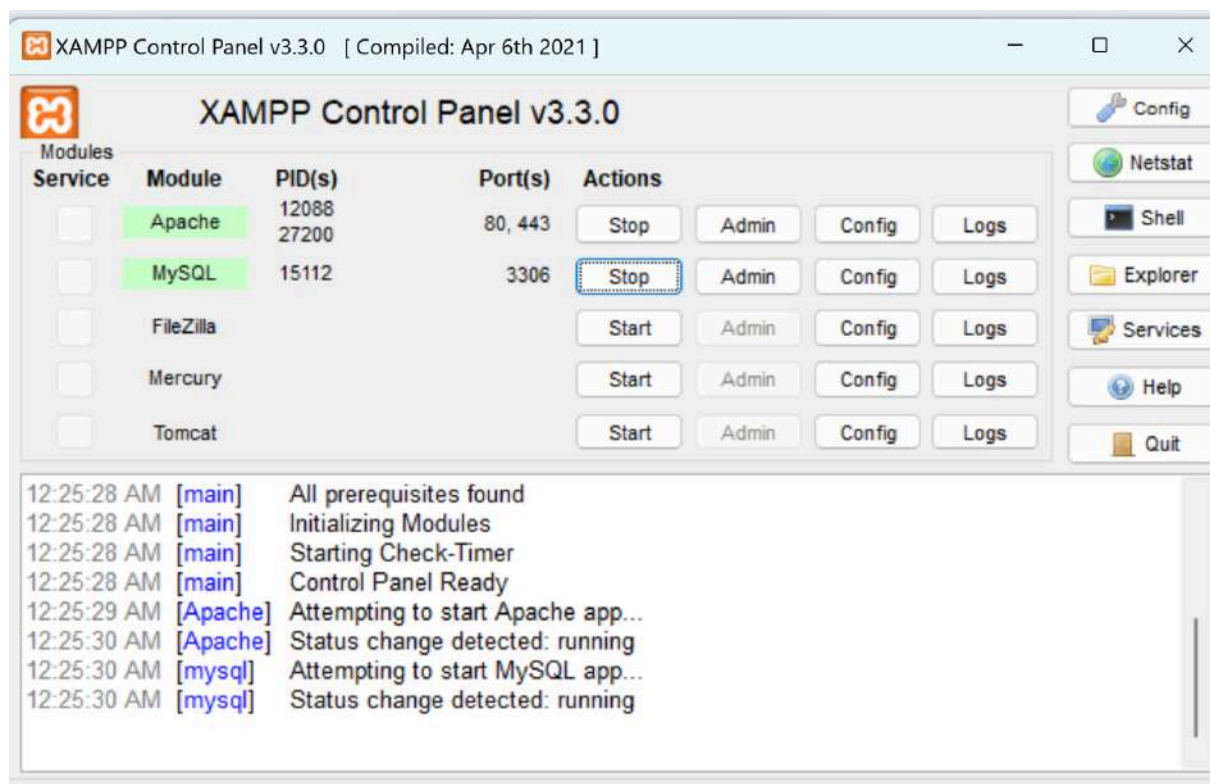
1. Visit the official XAMPP website (<https://www.apachefriends.org/index.html>) to download the version based on your operating system.



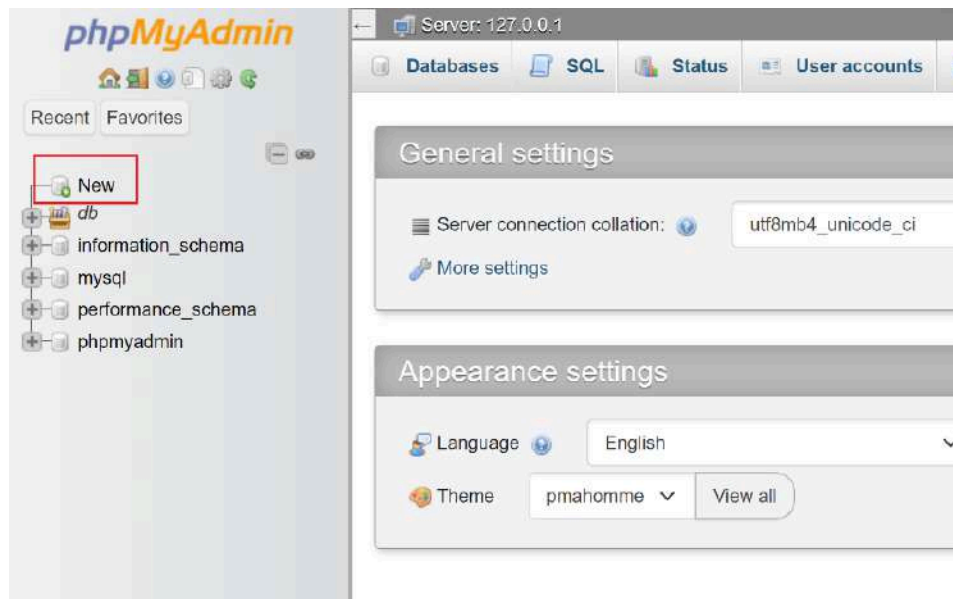
2. Run the installer and choose the components you need, such as Apache and MySQL.



- Open the XAMPP Control Panel and start both Apache and MySQL.



- Open your web browser and visit <http://localhost/phpmyadmin>.
- Click on the "New" button to create a new database with name `akmajuco_v1`



Databases

[Create database](#)

akmajuco_v1 utf8mb4_general_ci [Create](#)

☐ Check all [Drop](#)

Database	Collation	Action
<input type="checkbox"/> db_akmaju_algo_v4	utf8mb4_general_ci	Check privileges
<input type="checkbox"/> db_cbs	utf8mb4_general_ci	Check privileges
<input type="checkbox"/> information_schema	utf8_general_ci	Check privileges
<input type="checkbox"/> mysql	utf8mb4_general_ci	Check privileges
<input type="checkbox"/> performance_schema	utf8_general_ci	Check privileges
<input type="checkbox"/> phpmyadmin	utf8_bin	Check privileges

Total: 6

6. Go to the "Import" tab in phpMyAdmin.
7. Unzip your downloaded 'Alogtechies_Akmaju' files.
8. Click on "Choose File" to select the 'akmajuco_v1.sql' file and click 'Import'.

Format-specific options:

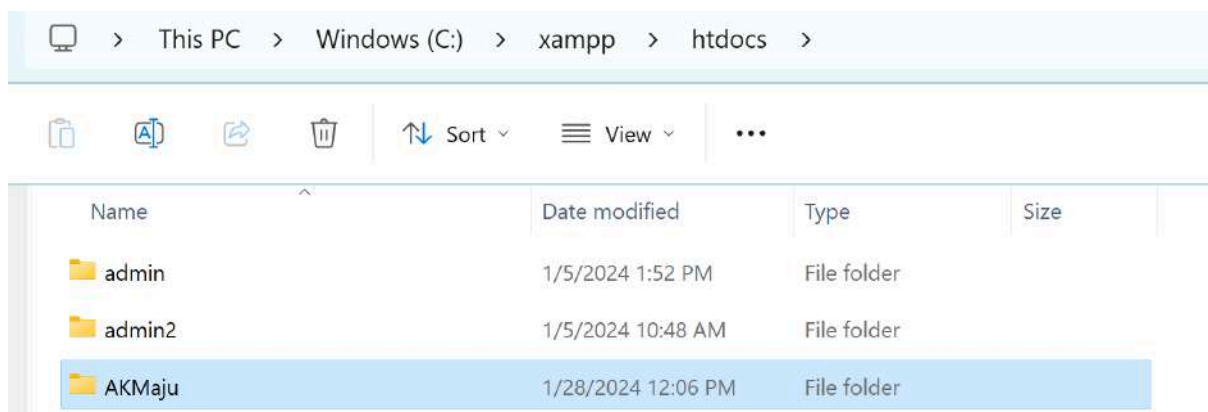
SQL compatibility mode:

NONE

☒ Do not use AUTO_INCREMENT for zero values

Import

9. Locate the extracted 'akmaju' files to the htdocs root folder.



10. Open your web browser and visit <http://localhost/AKMaju>

2.10 System Interface for All Users

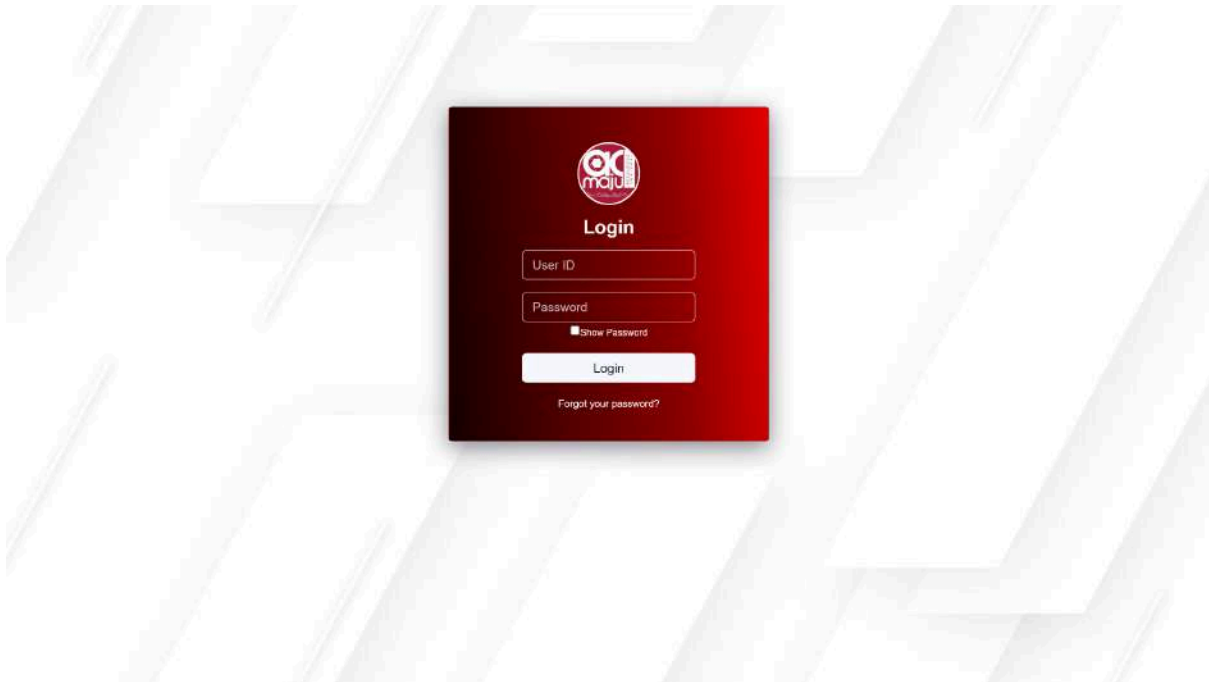


Figure 10.1: Login page for admin and staff

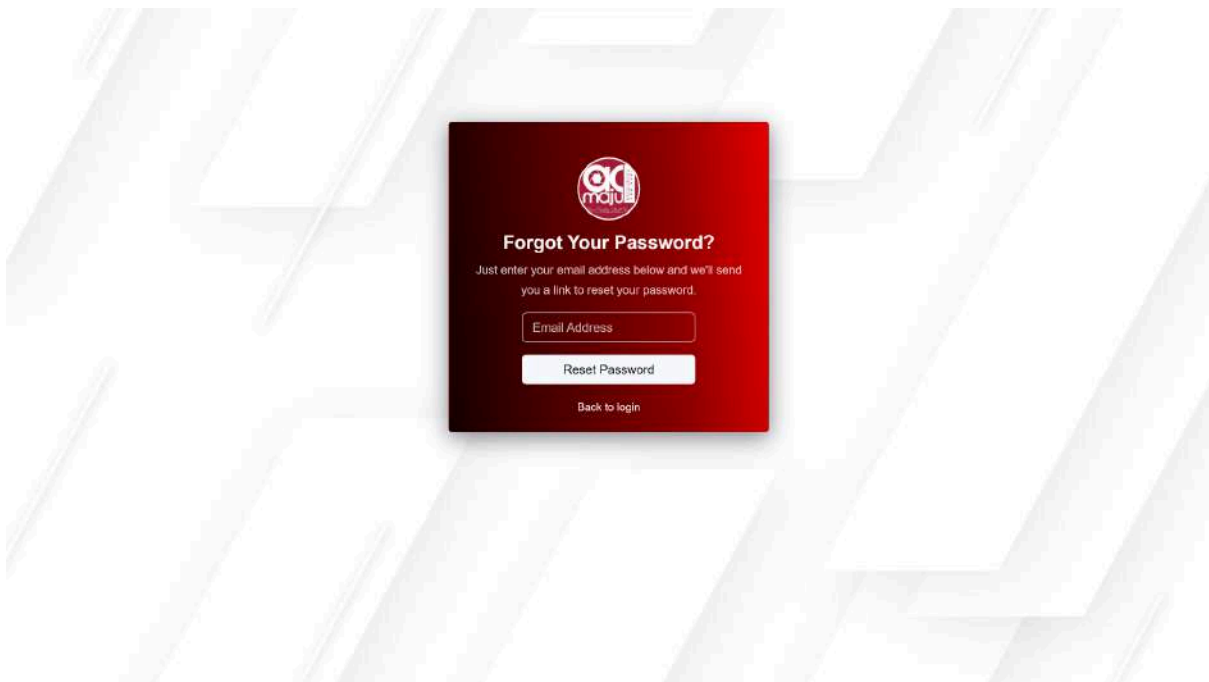


Figure 10.2: Forgot password page for admin and staff

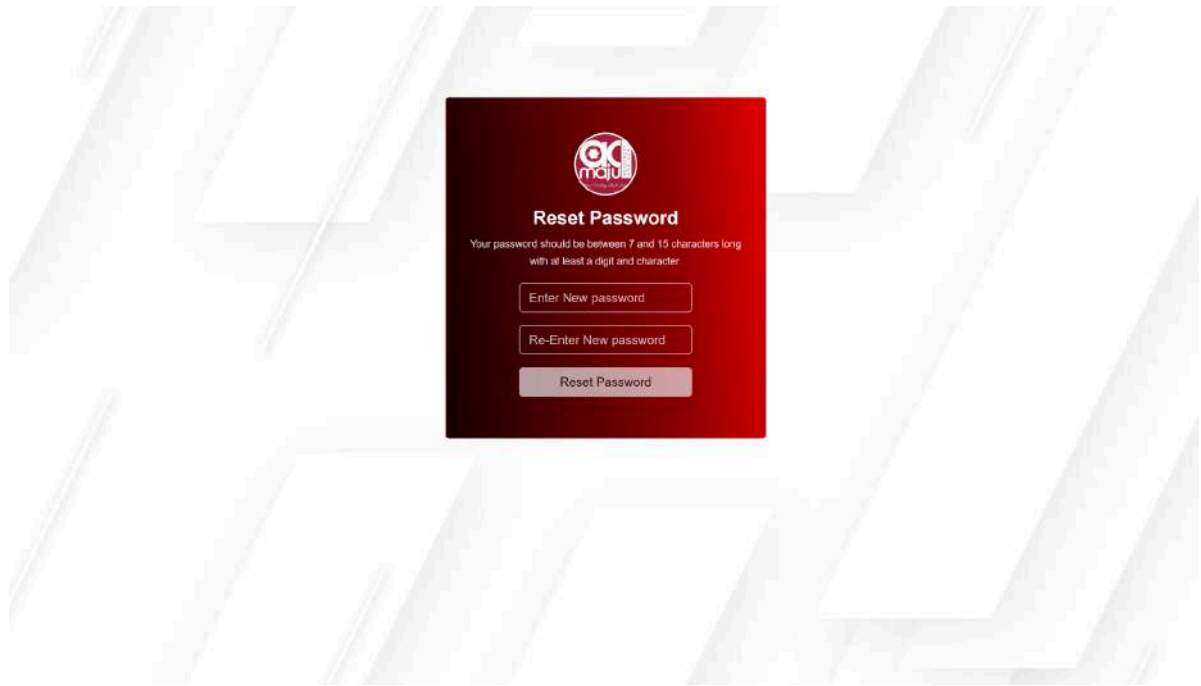


Figure 10.3: Reset password page for admin and staff

AK MAJU

Dashboard
Customer Information
Advertisement
Materials
Orders
Construction
Materials
Orders
Rates
Signatures
Document Verification
Manage User

Manage User

003
sssa

User Details















+ New User

Active User / Inactive User

Active User Info

All Users Admin Staff

Show 10 entries Search:


ID	Name	Position	Email	Supervisor	Last Login	Action
001	Ali	1233	cteh6011@gmail.com		2024-02-03 02:16:27	 
002	456	456	cteh60112@gmail.com	001	2024-01-15 15:53:11	 
003	sssa	CEO	oyiyan22@gmail.com		2024-02-03 02:28:43	 
004	004	CEO	cteh60112@gmail.com		2024-01-17 08:38:19	 
S04	dd	polo	12a@gmail.com	003	2024-01-27 15:45:30	 
S07	Lee32	Senior Designer	145@gmail.com	001		 
S08	789	Junior Designer	gohsidtest@gmail.com	001	2024-01-28 00:15:22	 

Showing 1 to 7 of 7 entries

Previous 1 Next

Inactive User Info

Show 10 entries Search:

ID	Name	Position	Email	Last Login	Action
S05	Abu	Designer	abu@gmail.com		

Showing 1 to 1 of 1 entries

Previous 1 Next

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Figure 10.4: Admin viewing active and inactive user details

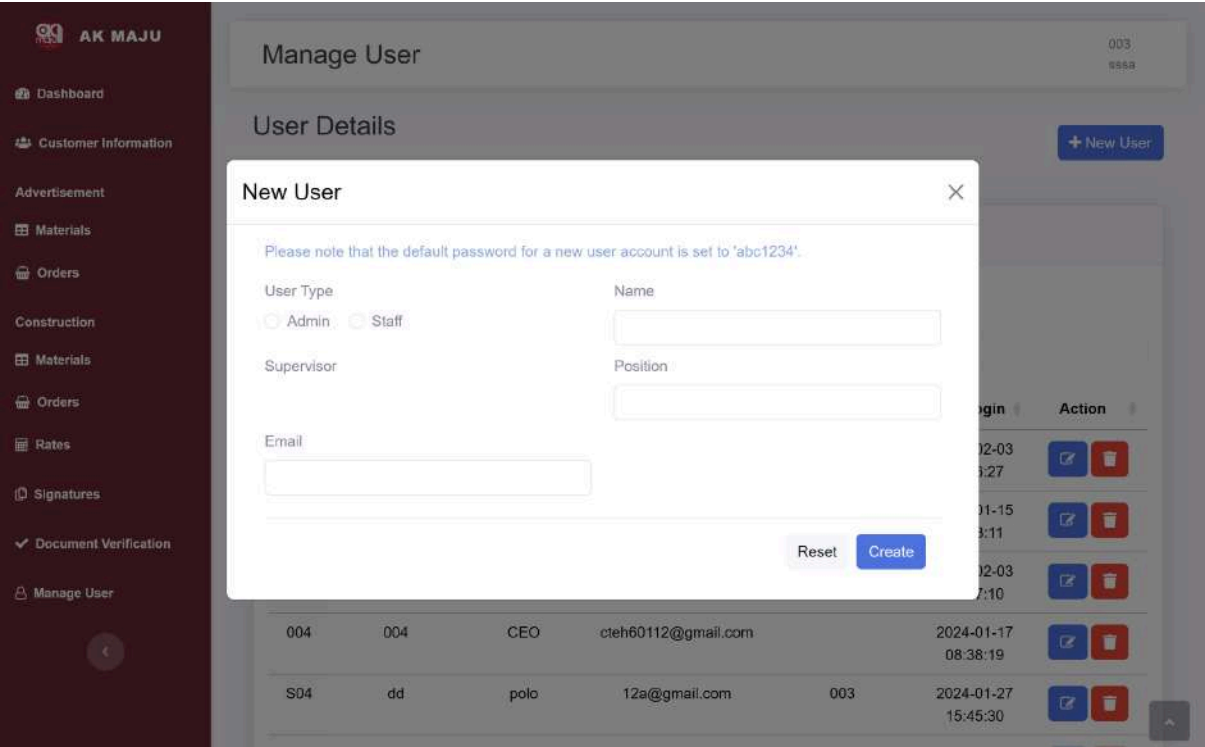


Figure 10.5: Admin adding new user

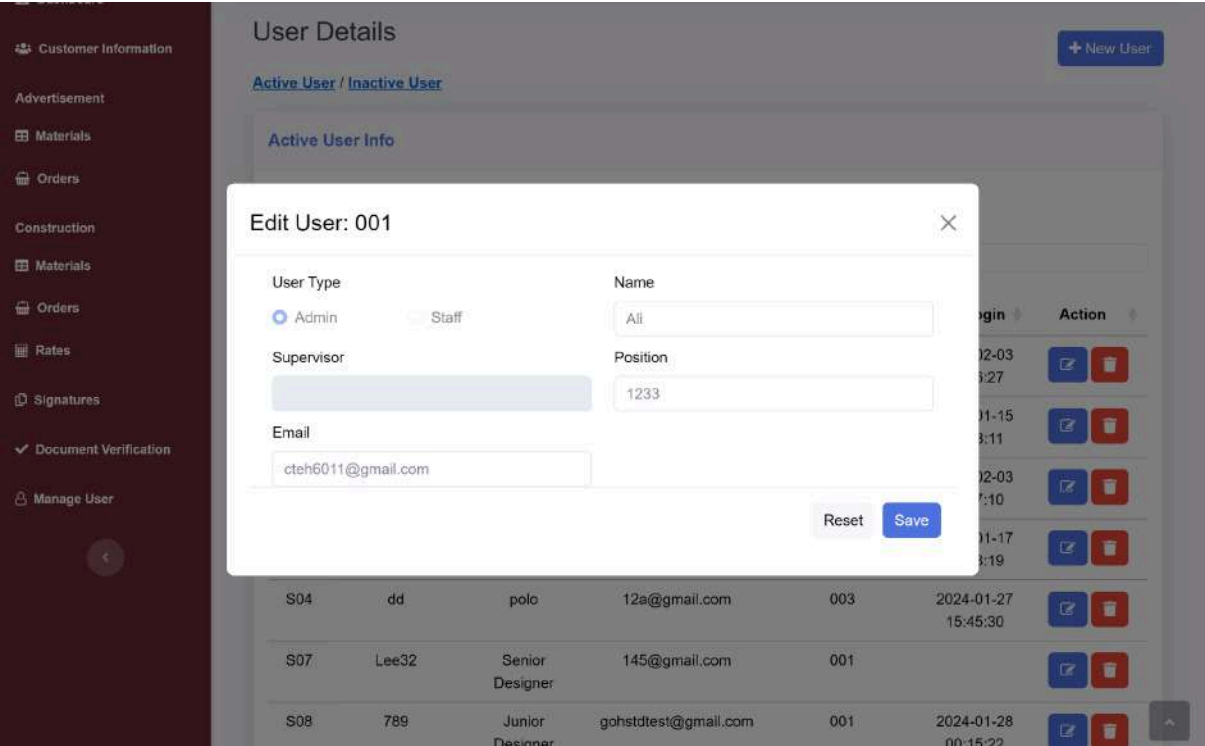


Figure 10.6: Admin editing existing user

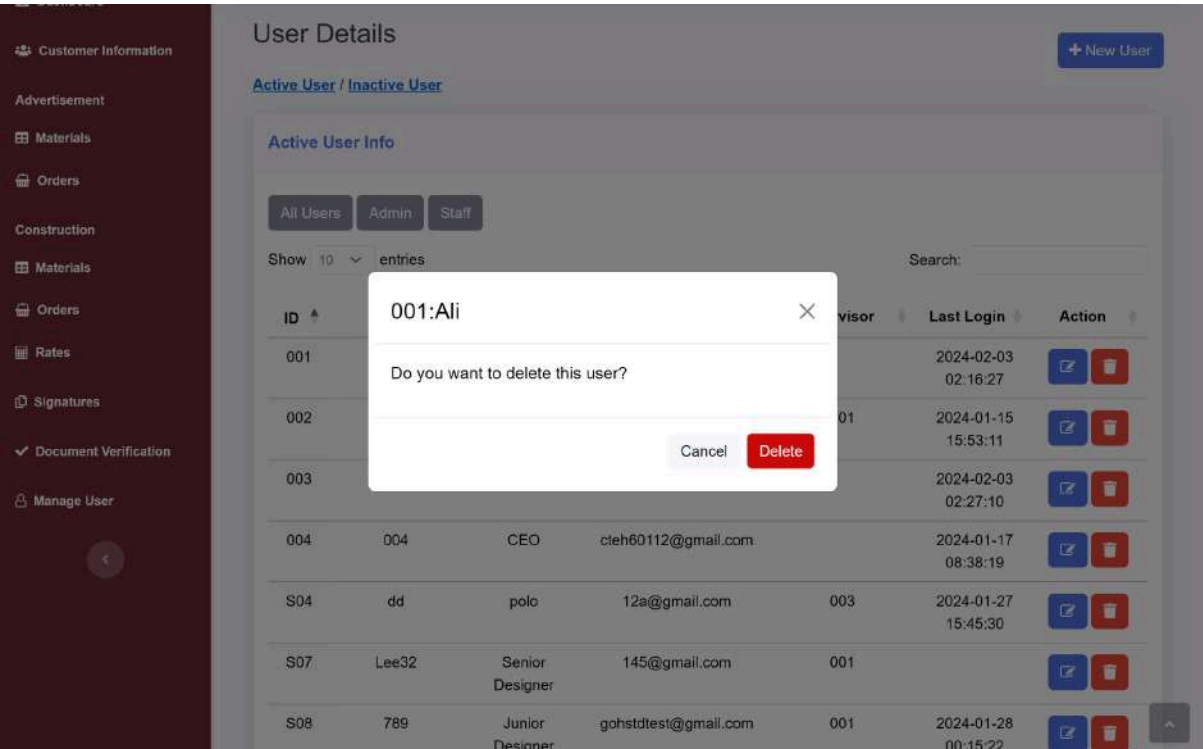


Figure 10.7: Admin deleting existing user

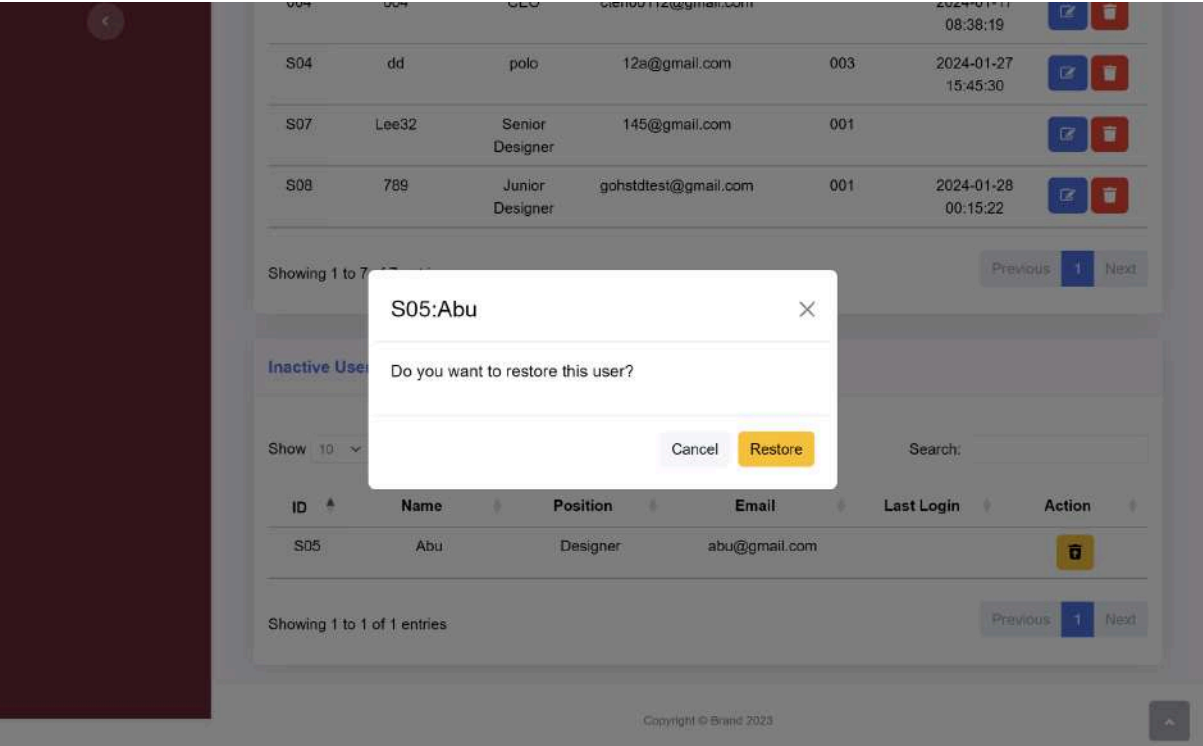


Figure 10.8: Admin restoring deleted user

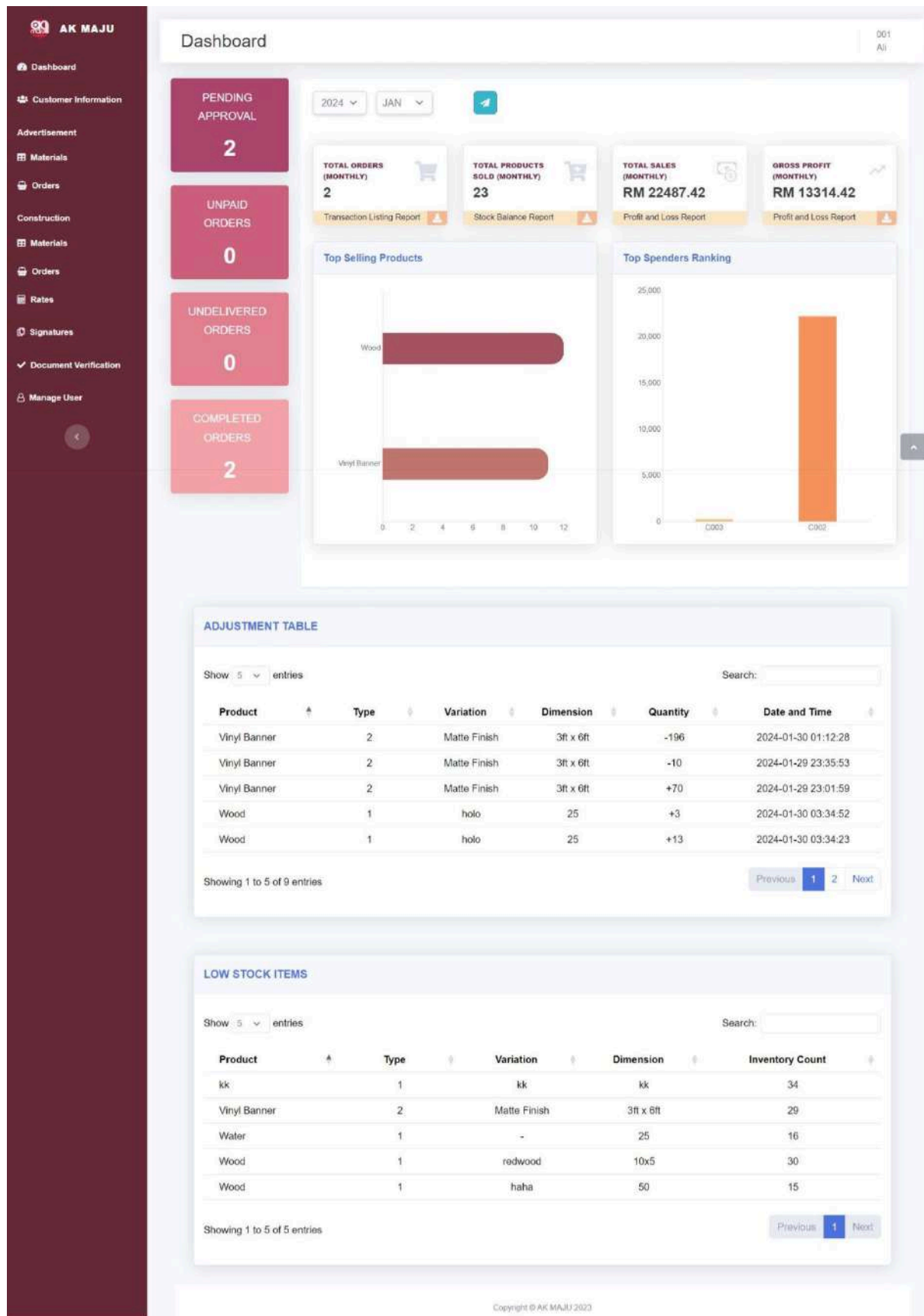


Figure 10.9: Admin dashboard

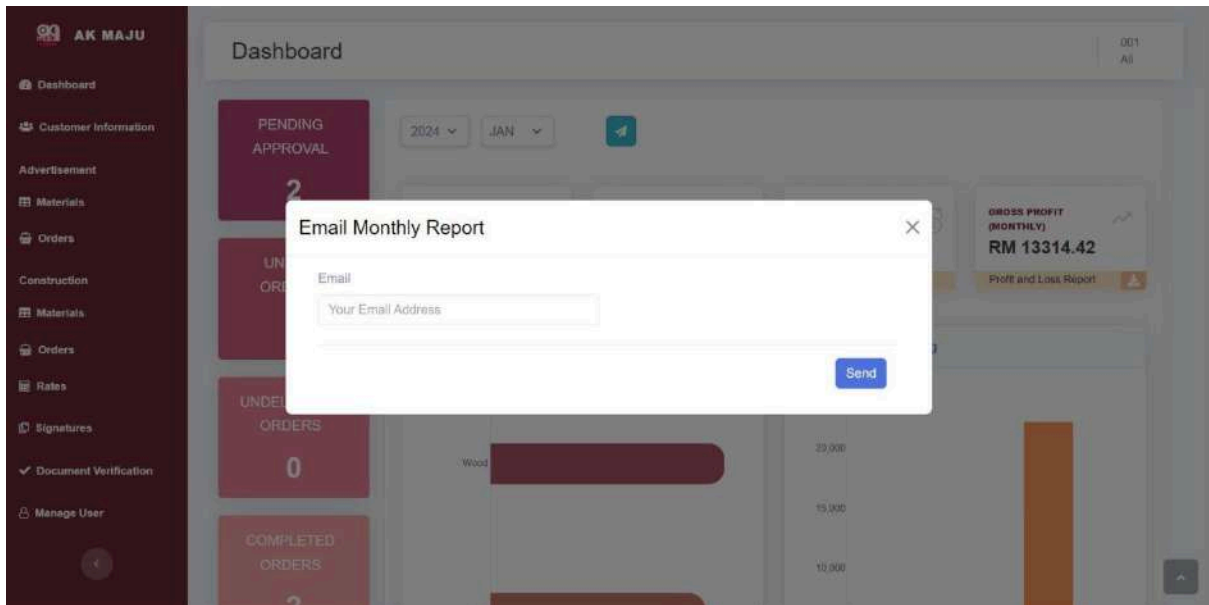


Figure 10.10: Admin sending monthly report

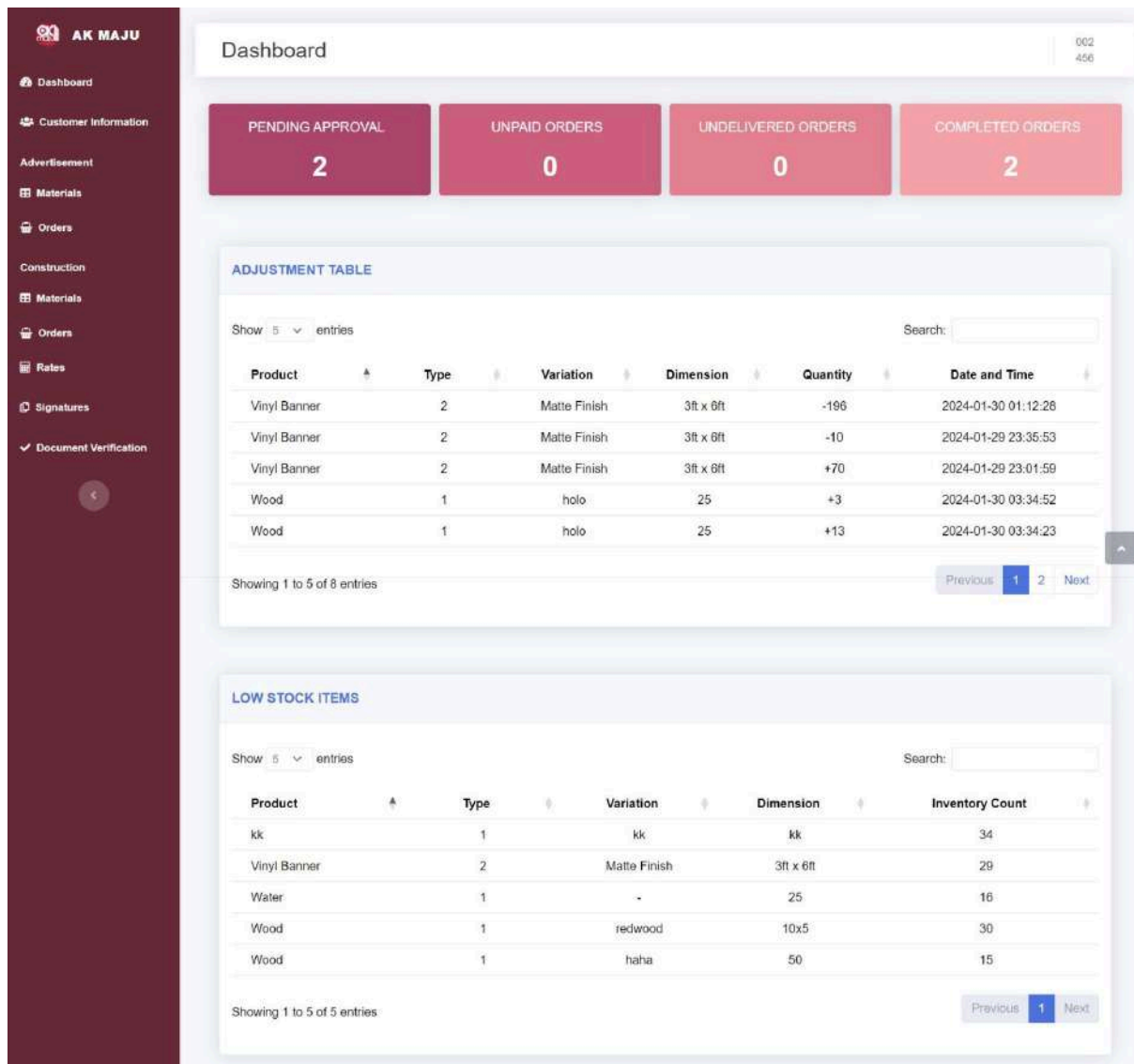


Figure 10.11: Staff dashboard

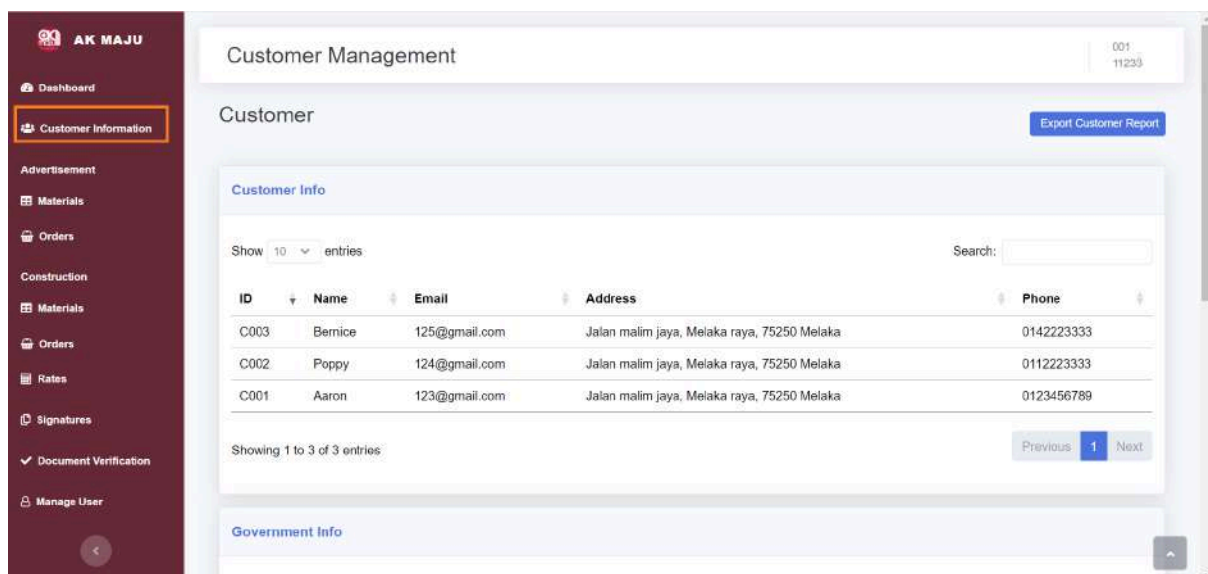


Figure 10.12: Customer Management Page

The screenshot shows two tables in the Customer Management page. The first table, titled 'Government Info', has columns for ID, Representative Name, Government, and Government Phone. It contains one entry with ID C002, Representative Name Poppy, Government Jabatan Imigresen, and Government Phone 063358220. The second table, titled 'Agency Info', has columns for ID, Representative Name, Agency, and Agency Phone. It contains one entry with ID C003, Representative Name Barnice, Agency AKMaju, and Agency Phone 068882222. Both tables have a search bar and pagination controls.

ID	Representative Name	Government	Government Phone
C002	Poppy	Jabatan Imigresen	063358220

ID	Representative Name	Agency	Agency Phone
C003	Barnice	AKMaju	068882222

Figure 10.13: Government and Agency Table in Customer Management Page

The screenshot shows the 'Export Customer Information' dialog box in the Customer Management page. The dialog has a 'Range of Date' dropdown set to 'None', and 'Date From' and 'Date To' fields with date pickers. There are 'Close' and 'Export' buttons. The background shows the 'Customer' table with columns for ID and Phone, containing three entries: C003 (0142223333), C002 (0112223333), and C001 (0123456789).

ID	Phone
C003	0142223333
C002	0112223333
C001	0123456789

Figure 10.14: Export Customer Report in Customer Management Page

AK MAJU

Dashboard

Customer Information

Advertisement

Materials

Orders

Construction

Materials

Orders

Rates

Signatures

Document Verification

Manage User

Advertisement Material

003 9999

Advertisement Material

Material Type / Active Material / Inactive Material

History

Active Material

+ New

Show 10 entries

Search:

ID	Name	Type	Variation	Dimension	Cost	Price	Markup	Unsold	Selling	Status	Last Modified	Action
A003	Vinyl Banner	2	Matte Finish	3ft x 6ft	1.00	30.00	30.00	29	395	LOW	2023-12-28 17:40:41	
A004	Wood	1	haha	50	45.00	30.00	33.33	15	15	Low	2023-12-25 14:33:38	
AM0008	kk	1	kk	kk	123.00	34.00	-72.36	34	0	Low	2024-01-23 13:17:54	
A001	Wood	1	redwood	10x5	43.00	57.00	32.56	30	0	In Stock	2024-02-03 00:51:13	
A002	Wood	1	holo	25	20.00	15.00	33.33	16	15			
AM0007	cc	1	cc	cc	123.00	145.00	17.89	25	0			

LOW STOCK ALERT

3 advertisement materials are running out of stock.

Figure 10.15: Admin and staff viewing low stock alert

AK MAJU

Dashboard

Customer Information

Advertisement

Materials

Orders

Construction

Materials

Orders

Rates

Signatures

Document Verification

Manage User

Advertisement Material

003 9999

Advertisement Material

Material Type / Active Material / Inactive Material

History

Active Material

+ New

Show 10 entries

Search:

ID	Name	Type	Variation	Dimension	Cost	Price	Markup	Unsold	Selling	Status	Last Modified	Action
A001	Wood	1	redwood	10x5	43.00	57.00	32.56	30	0	Low	2024-01-30 03:32:33	
A003	Vinyl Banner	2	Matte Finish	3ft x 6ft	1.00	30.00	30.00	29	395	LOW	2023-12-28 17:40:41	
A004	Wood	1	haha	50	45.00	30.00	33.33	15	15	Low	2023-12-25 14:33:38	
AM0008	kk	1	kk	kk	123.00	34.00	-72.36	34	0	Low	2024-01-23 13:17:54	
A002	Wood	1	holo	25	20.00	15.00	33.33	16	15	In Stock	2024-01-30 03:34:52	
AM0007	cc	1	cc	cc	123.00	145.00	17.89	25	0	In Stock	2024-01-17 04:26:11	

Figure 10.16: Admin and staff viewing active advertisement material

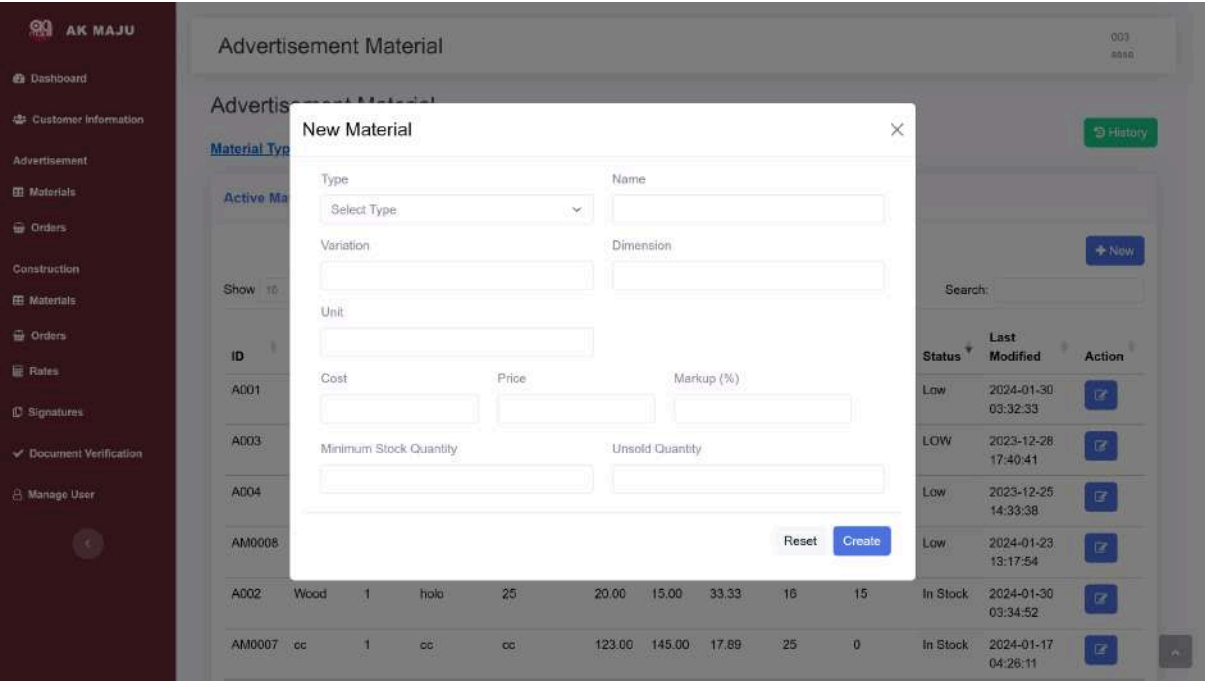


Figure 10.17: Admin and staff adding new advertisement material

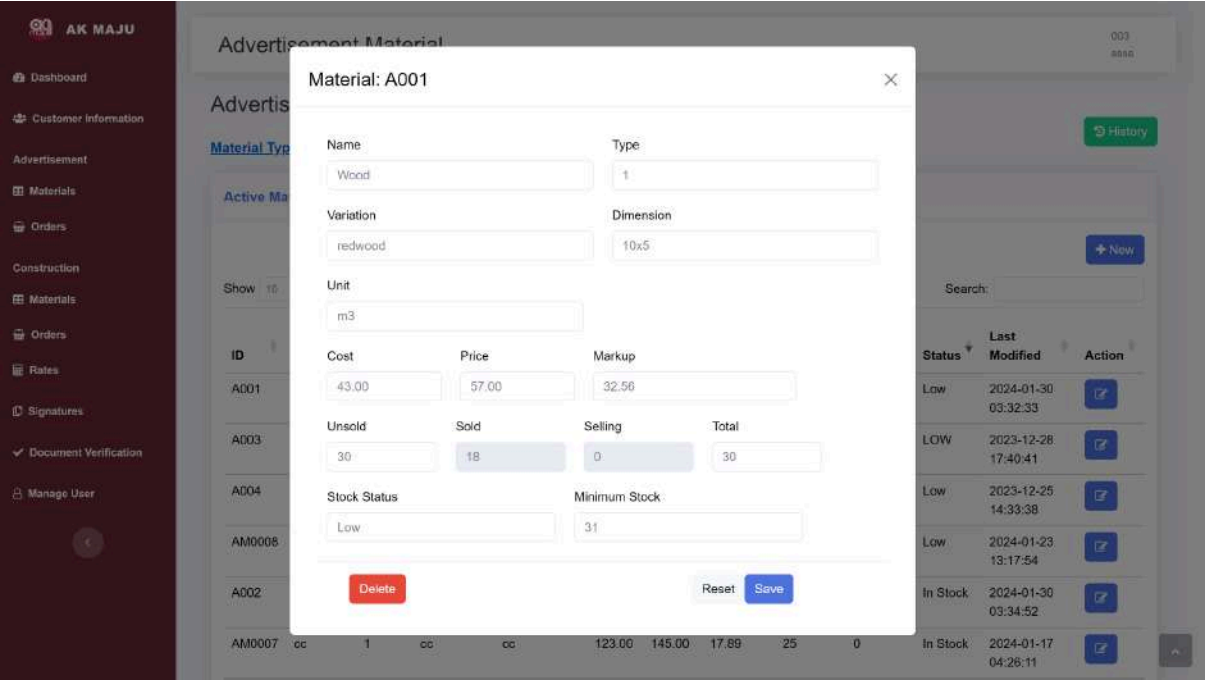


Figure 10.18: Admin and staff editing/deleting an advertisement material

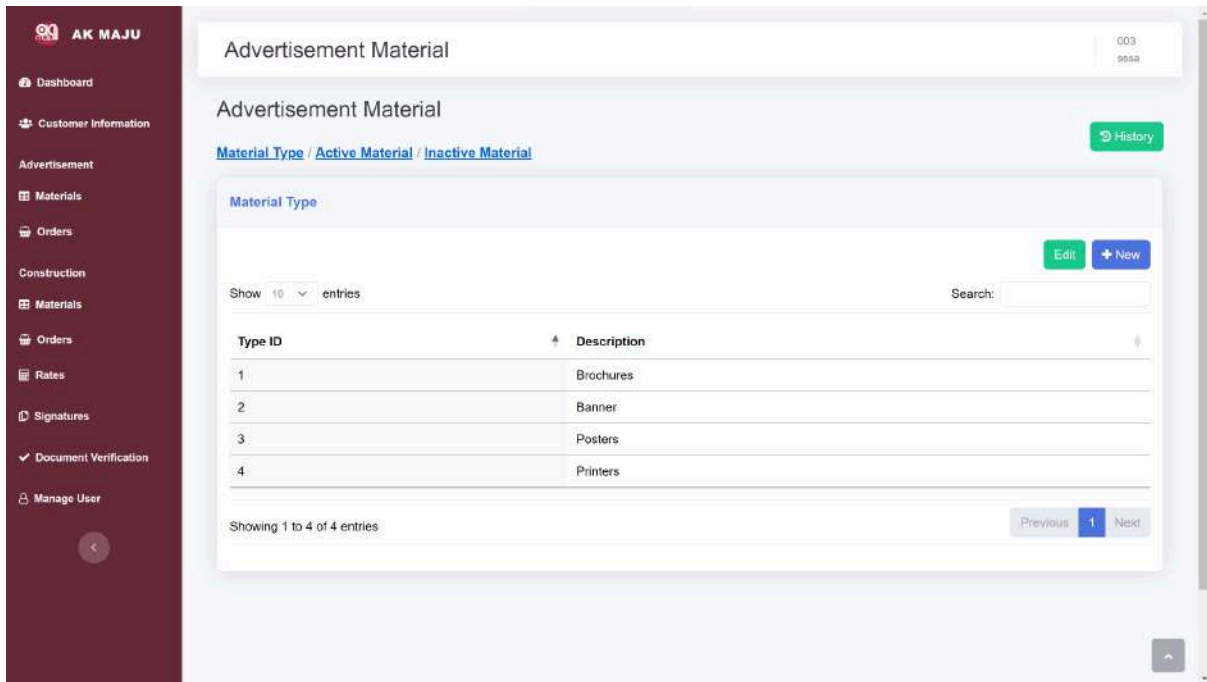


Figure 10.19: Admin and staff viewing types of advertisement material

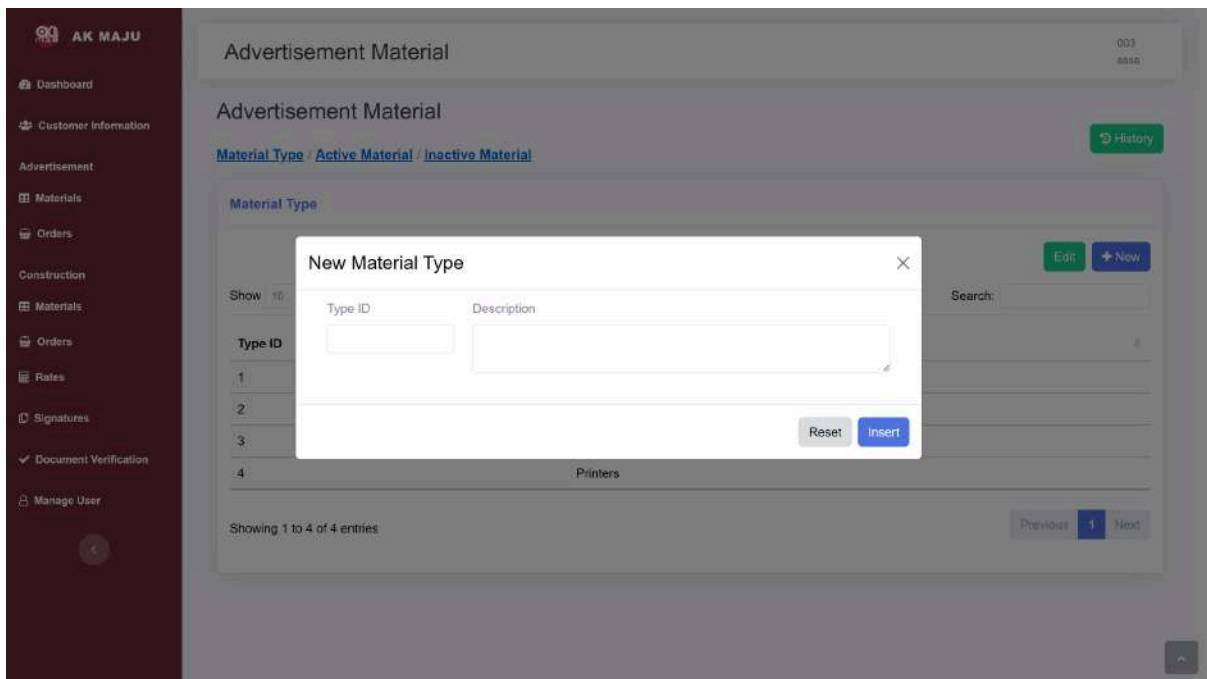


Figure 10.20: Admin and staff adding new advertisement material type

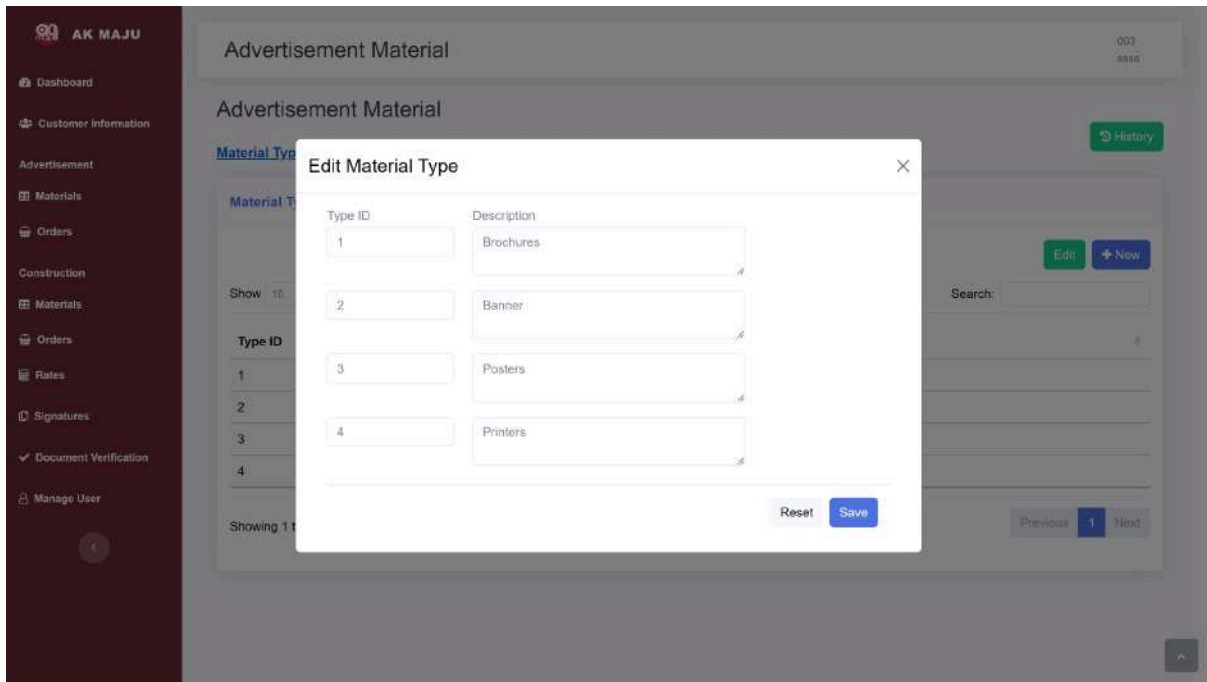


Figure 10.21: Admin and staff editing advertisement material type

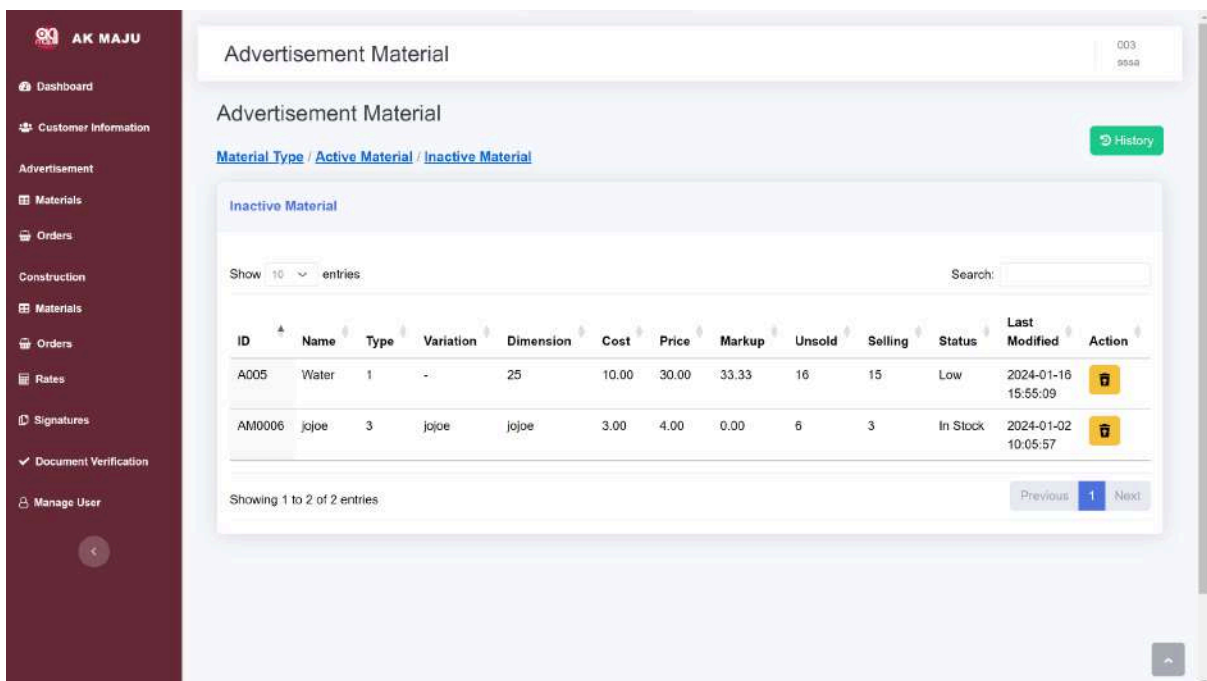


Figure 10.22: Admin and staff viewing inactive advertisement material

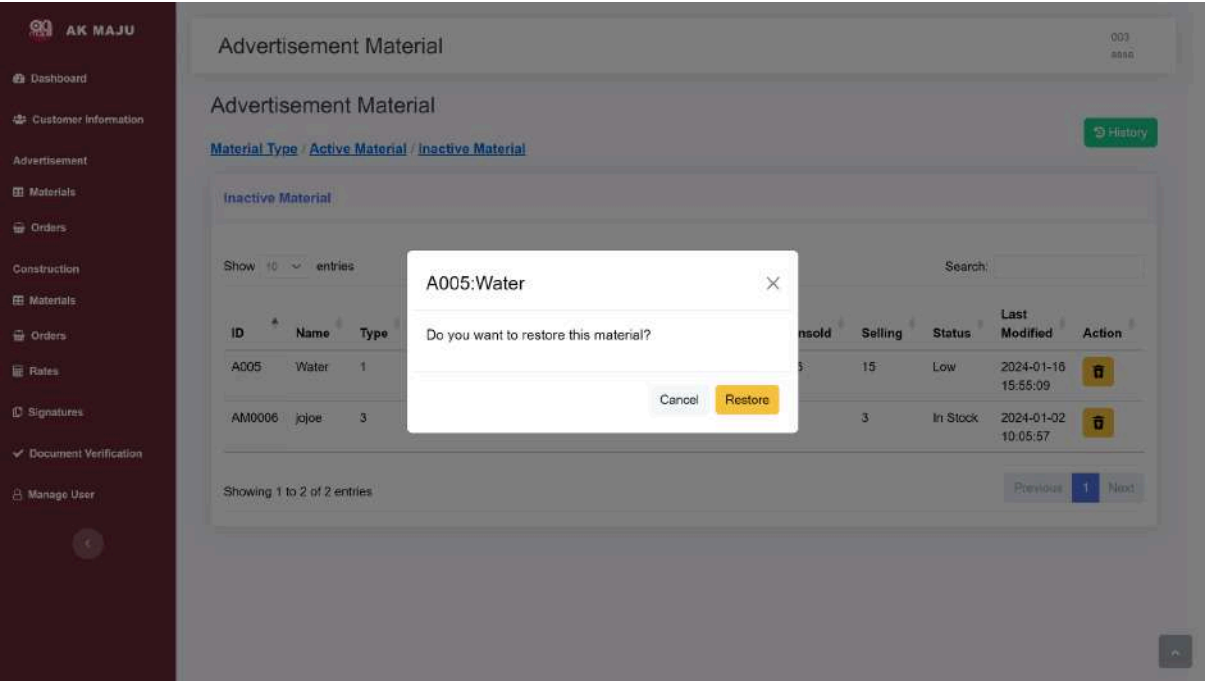


Figure 10.23: Admin and staff restoring inactive advertisement material

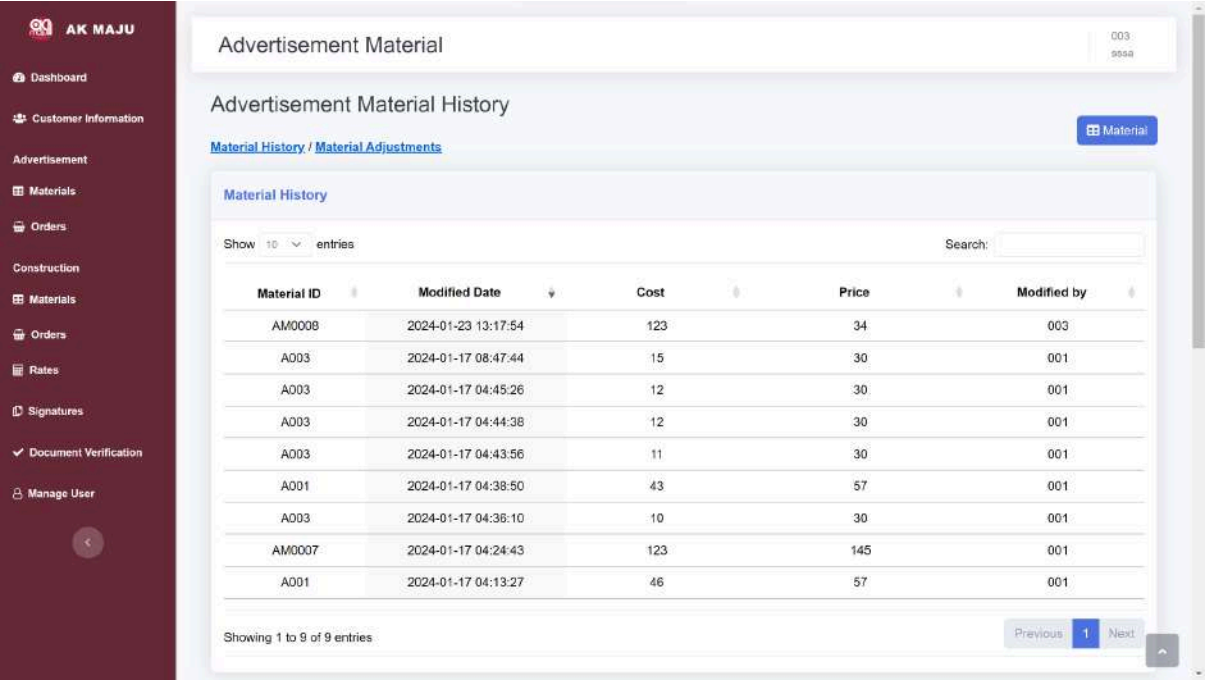


Figure 10.24: Admin and staff viewing advertisement material history

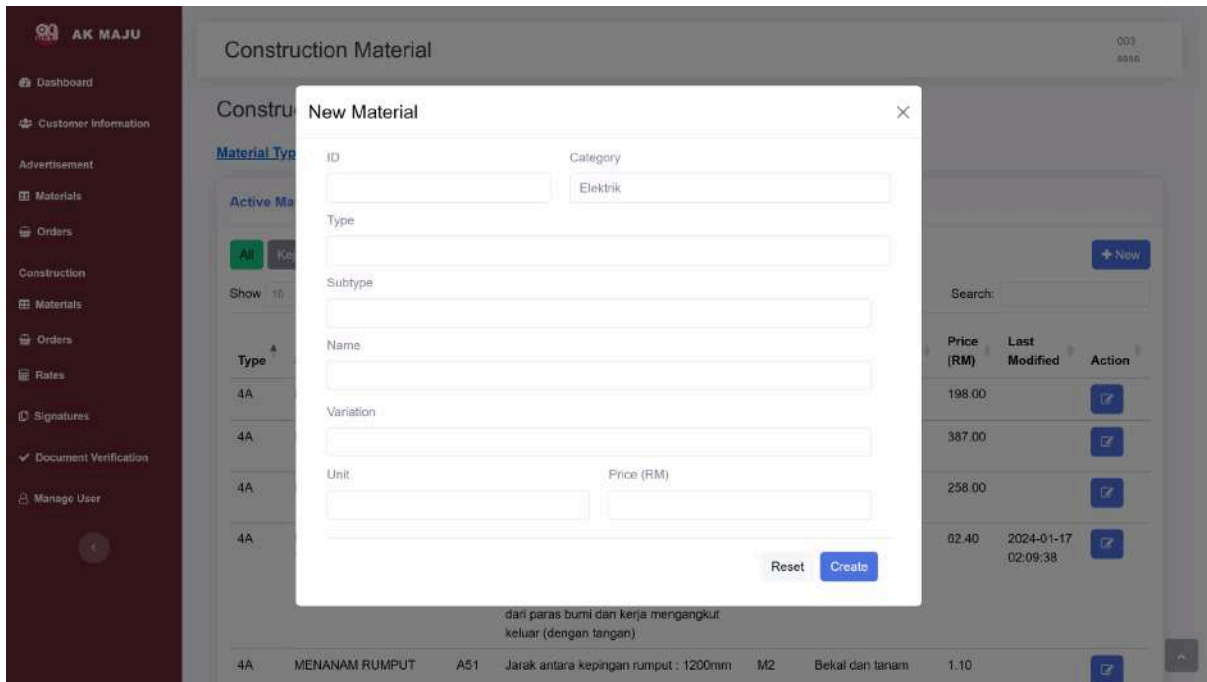


Figure 10.27: Admin and staff adding new construction material

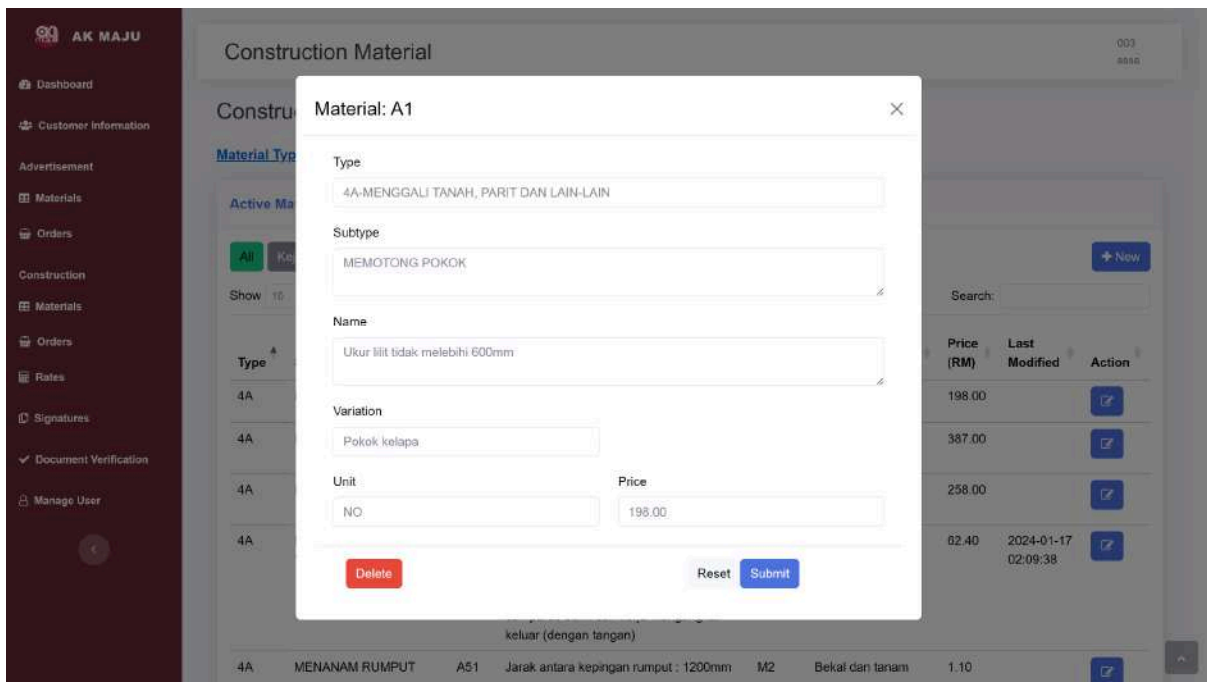


Figure 10.28: Admin and staff editing/deleting construction material

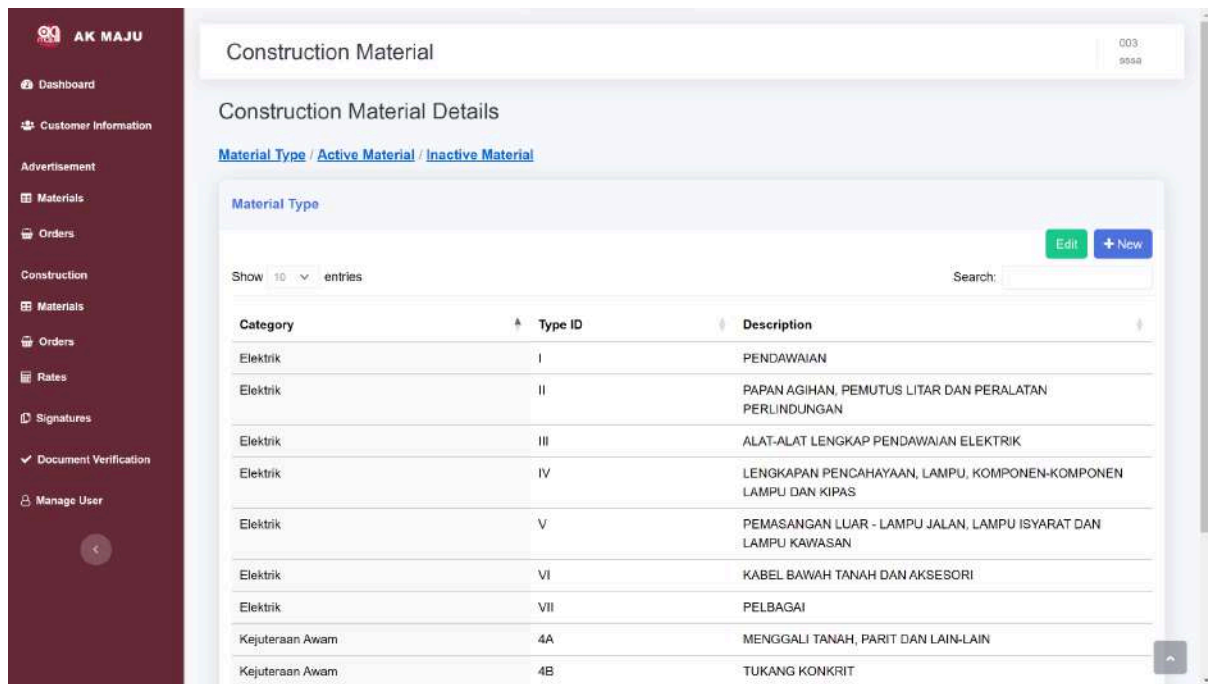


Figure 10.29: Admin and staff viewing types of construction material

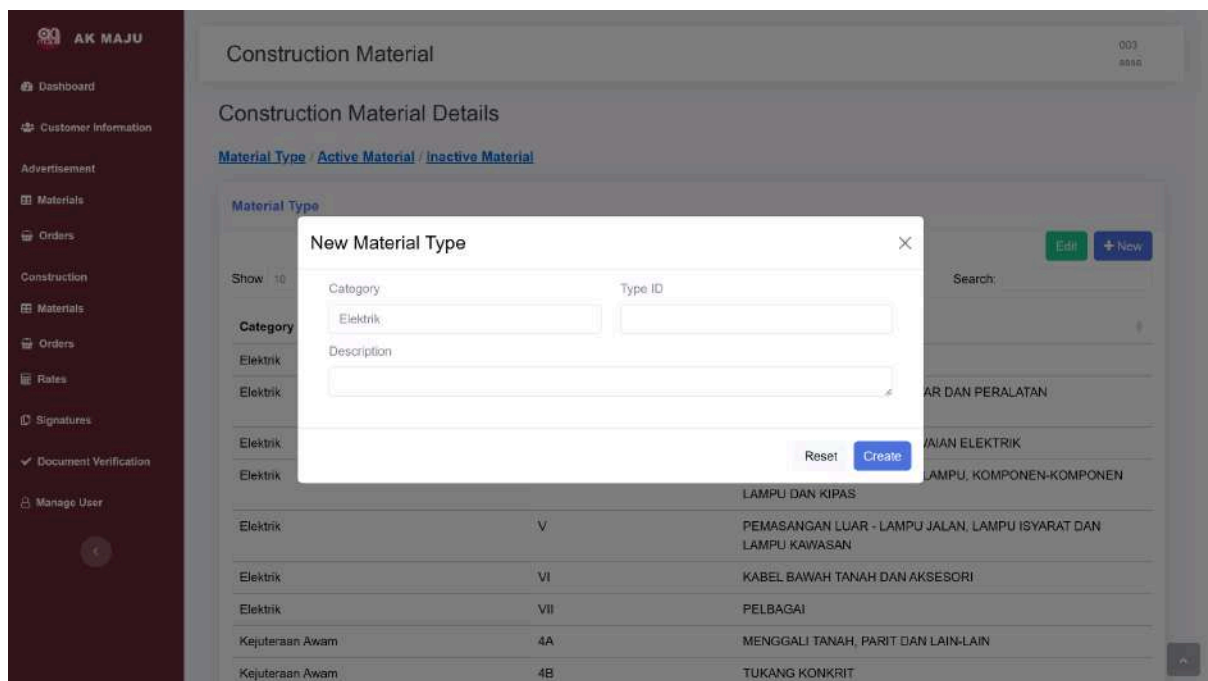


Figure 10.30: Admin and staff adding new type of construction material

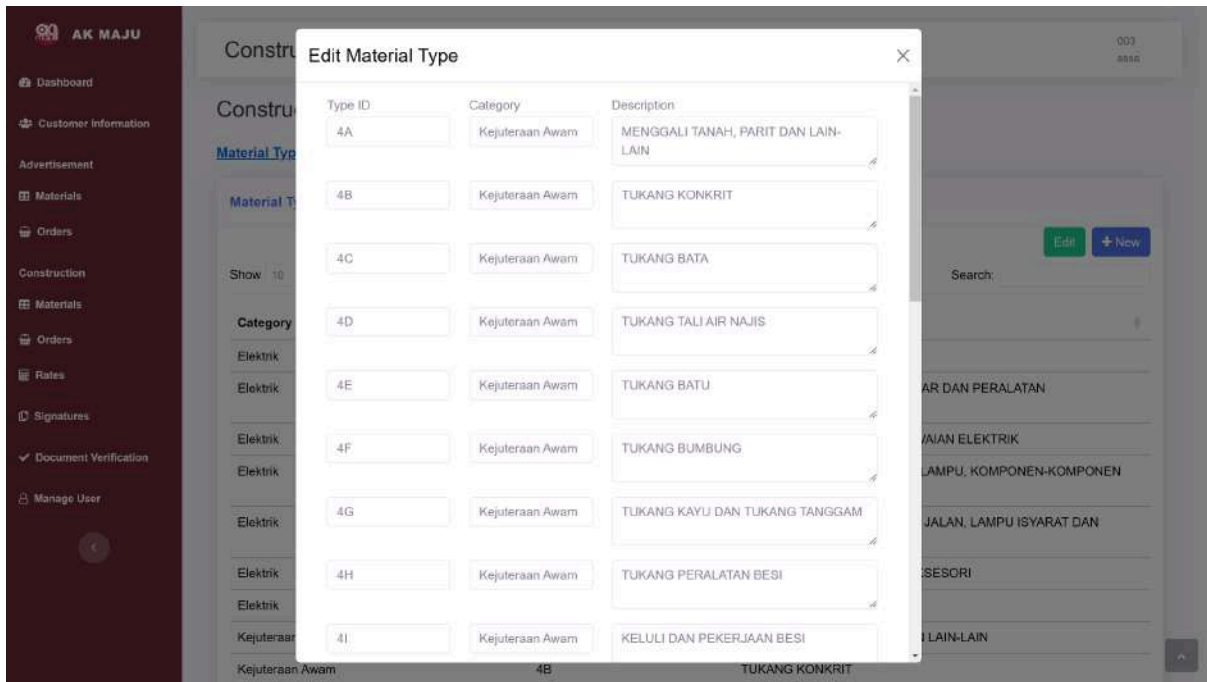


Figure 10.31: Admin and staff editing types of construction material

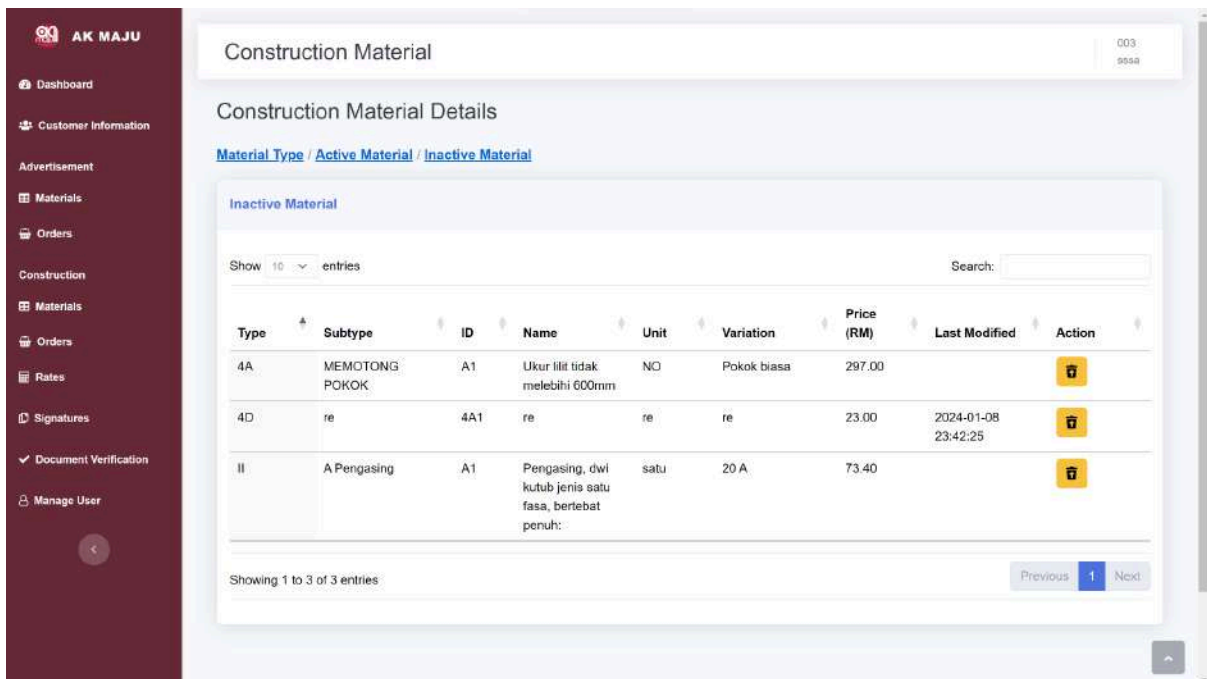


Figure 10.32: Admin and staff viewing inactive construction material

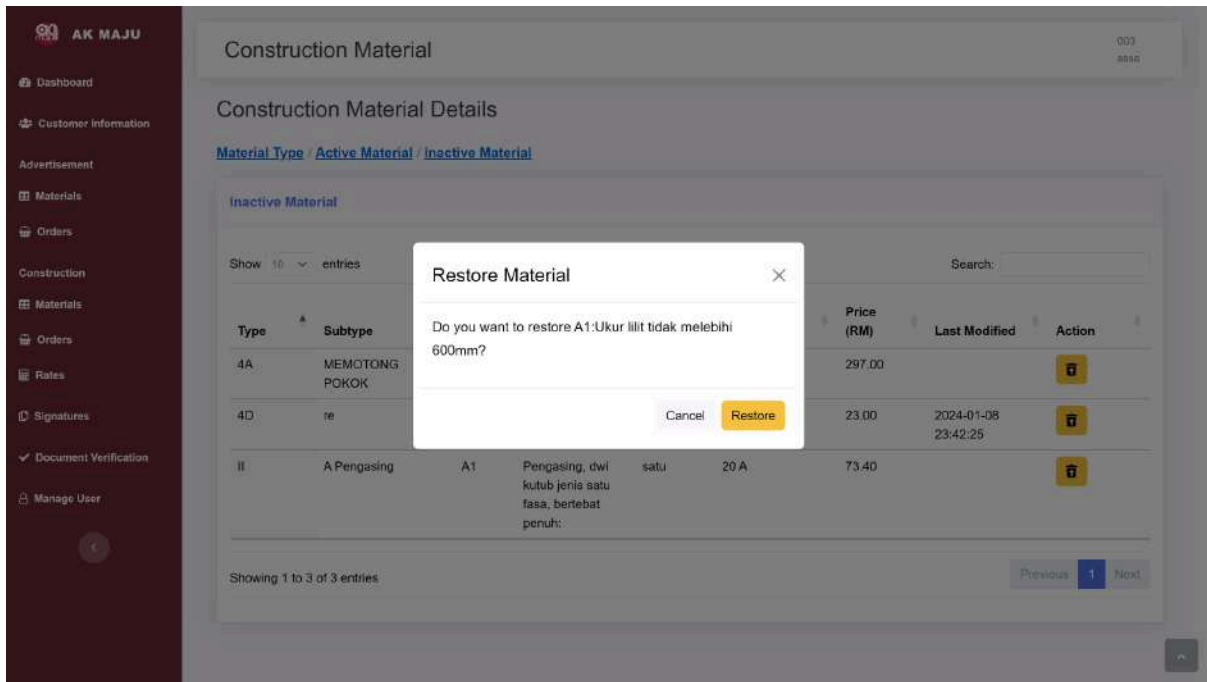


Figure 10.33: Admin and staff restoring inactive construction material

Construction Rate

Construction Rate Details

[Zone Rate](#) / [Order Rate](#)

[Kejunuteraan](#) [Elektrik](#) [Import](#)

Show 10 entries

Search:

Negeri	Daerah	Kurang dari 15km	15 - 30km	30 - 50km	50 - 75km	More than 75km
KEDAH	Atas Gunung Jerai	0	0	35	0	0
KEDAH	Kubang Pasu	15	15	15	20	20
KEDAH	Pendang	10	12	15	18	20
KEDAH	Yan	10	10	12	15	17
P. PINANG	Barat Daya	15	25	0	0	0
P. PINANG	Pulau Aman (20km)	0	30	0	0	0
P. PINANG	Seberang Perai Selatan	15	20	25	30	30
P. PINANG	Seberang Perai Tengah	15	20	25	30	30
P. PINANG	Seberang Perai Utara	15	19	23	27	27
P. PINANG	Timur Laut	15	20	25	32	32

Figure 10.34: Admin and staff restoring construction zone rate

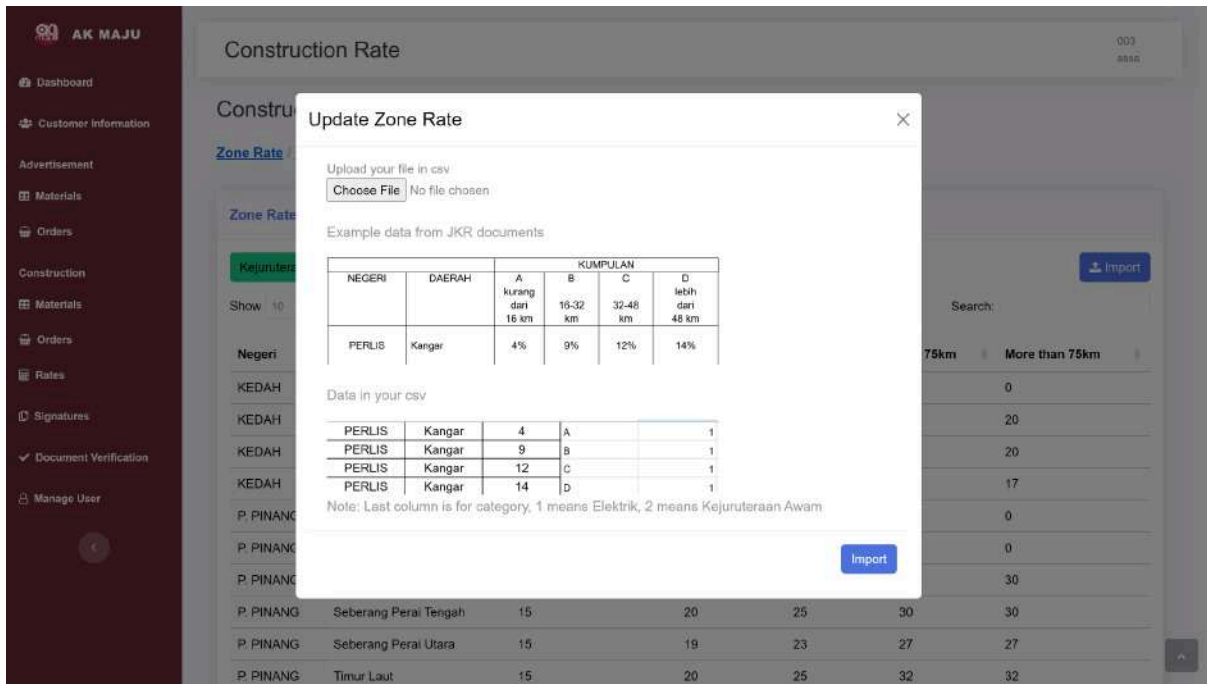


Figure 10.35: Admin and staff updating construction zone rate

<

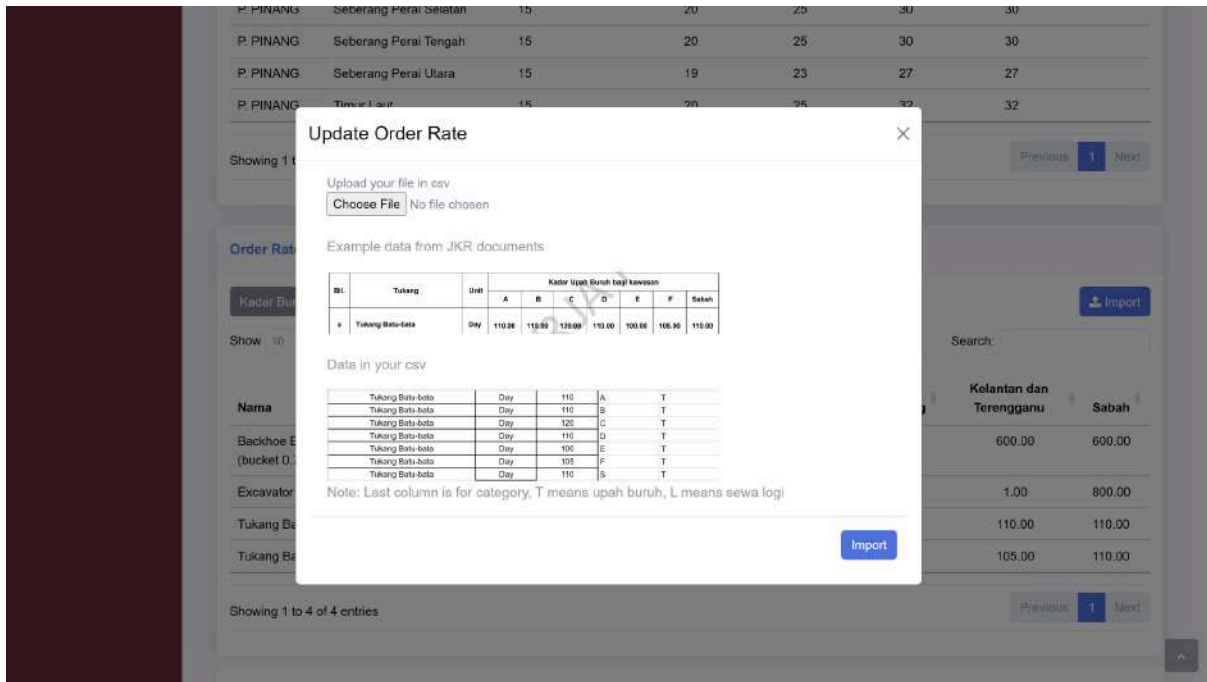


Figure 10.37: Admin and staff updating construction order rate

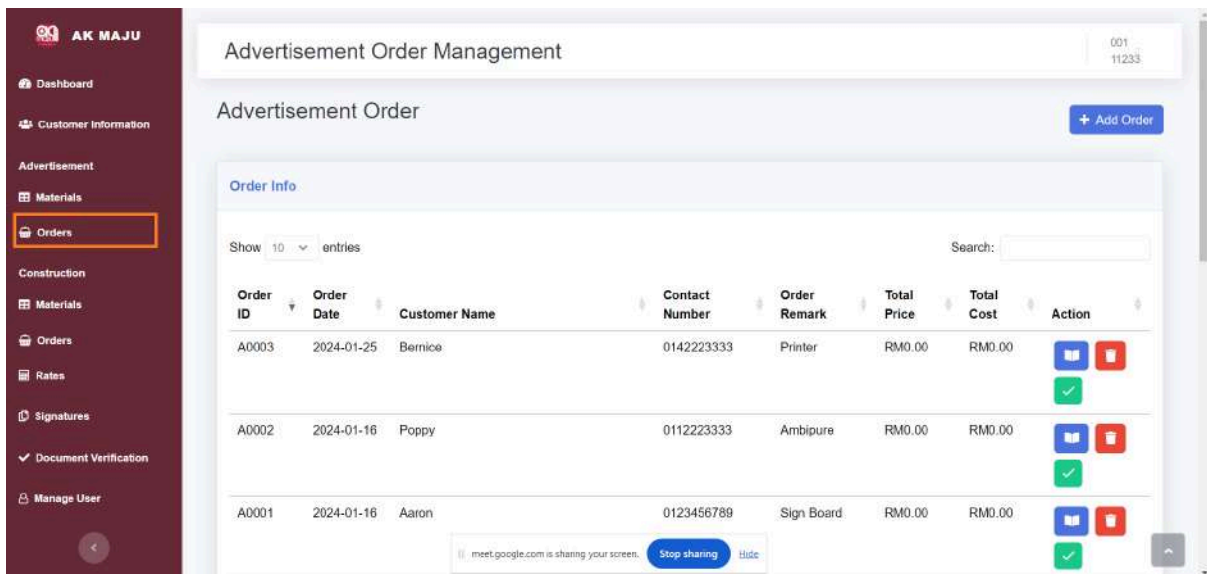


Figure 10.38: Advertisement Order Main Page 1

Cancelled Order

Show 10 entries Search:

Order ID	Order Date	Customer Name	Contact Number	Order Remark	Total Price	Total Cost	Action
No data available in table							

Showing 0 to 0 of 0 entries Previous Next

Complete Order

Show 10 entries Search:

Order ID	Order Date	Customer Name	Contact Number	Order Remark	Total Price	Total Cost	Action
No data available in table							

Showing 0 to 0 of 0 entries Previous Next

Figure 10.39: Advertisement Order Main Page 2

AK MAJU

Advertisement Order Management 001 11233

Add Order

Customer Information

Choose exist customer

Customer Name: Name

Customer Type: Personnel

Customer email: 123@gmail.com

Customer phone: 0123456789

Street: Street Details

City: City Details

Postcode: Postcode Details

State: State Details

Figure 10.40: Add Advertisement Order Page 1

The screenshot displays the 'Add Advertisement Order Page 2' interface. On the left is a dark red sidebar with navigation links: Orders, Rates, Signatures, Document Verification, and Manage User. The main content area is divided into two sections. The top section contains customer information: 'Customer email' (123@gmail.com), 'Customer phone' (0123456789), 'Street' (Street Details), 'City' (City Details), 'Postcode' (Postcode Details), and 'State' (State Details). The bottom section, titled 'Order Details', includes 'Order Date' (dd/mm/yyyy), 'Order Remark' (Sign Board to AKMaju), 'Term of Payment' (Local Order), and a 'Save Order' button. A copyright notice 'Copyright © Brand 2023' is visible at the bottom right.

Figure 10.41: Add Advertisement Order Page 2

The screenshot displays the 'Add Advertisement Order Material Page 1' interface. On the left is a dark red sidebar with navigation links: Dashboard, Customer Information, Advertisement, Materials, Orders, Construction, Materials, Orders, Rates, Signatures, Document Verification, and Manage User. The main content area is titled 'Advertisement Order Management' and 'Add Order'. It features a section titled 'Add Order Material' with various input fields: 'Material Type' (Wood), 'Material Name' (Material Name), 'Material Variation' (Material Variation), 'Material Dimension' (Material Dimension), 'Material Unit' (Material Unit), 'Material Cost' (Material Cost), 'Material Price' (Material Price), 'Quantity' (Quantity), 'Discount Type' (Percentage), 'Discount Percentage (in %)' (20), 'Tax Code' (Tax Code), and 'Tax Amount' (Tax Amount).

Figure 10.42: Add Advertisement Order Material Page 1

Discount Type: Percentage

Discount Percentage (in %): 20

Tax Code: AJS_A

Tax Amount: RM37.00

Save Order Material

Material Selected

Show 10 entries

Search:

Material Type	Material Name	Material Variation	Material Dimension	Material Unit	Material Price	Material Cost	Quantity	Discount Percentage	Discount Amount	Tax Amount
No data available in table										

Showing 0 to 0 of 0 entries

Previous Next

Order Summary >

Figure 10.43: Add Advertisement Order Material Page 2

Edit Material

Material Type: 1

Material Name: Wood

Material Variation: hall

Material Dimension: 25

Material Unit: 1.00

Material Price: 567.00

Material Cost: 45.00

Quantity: 1

Discount Type: Percentage

Discount Percentage (in %): 1.00

Tax Code: AJS_A

Tax Amount: 1.00

Close Save Changes

Figure 10.44: Edit Order Material in Add Advertisement Order Material Page

AK MAJU

Dashboard
Customer Information
Advertisement
Materials
Orders
Construction
Materials
Orders
Rates
Signatures
Document Verification
Manage User

Advertisement Order Management

001
Noor Azam

Order Summary

Order Summary

Order ID	Order Date	Customer Name	Contact Number	Total Cost	Total Price
A0006	2024-01-17	Poppy2	0123456782	45.00	567.00

Quotation

ID	Remark	Issue Date	Due Date	Status	Prepared By	Approved By	Action
No quotation has been generated.							

< Back to Order Material

Generate

Figure 10.45: Order Summary in Add Advertisement Order Page

AK MAJU

Dashboard
Customer Information
Advertisement
Materials
Orders
Construction
Materials
Orders
Rates
Signatures
Document Verification
Manage User

Advertisement Order Management

001
Ali

Manage Advertisement Order

Customer Information

Order Details

Material Selected

Quotation

Invoice

Delivery Order

Order Status

Figure 10.46: Manage Advertisement Order Page 1

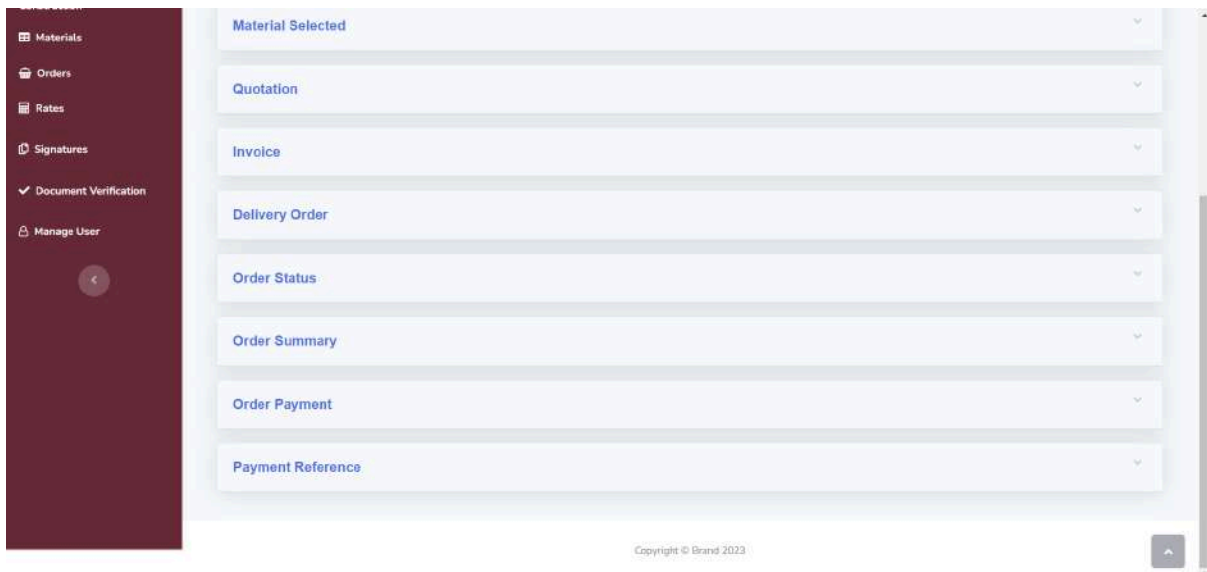


Figure 10.47: Manage Advertisement Order Page 2

Figure 10.48: Customer Information Edit and Save in Edit Advertisement Order page

The screenshot shows a modal window titled "Add Order Material" with a close button (X) in the top right corner. The form is divided into two columns and contains the following fields:

- Material Type:** A dropdown menu with "Wood" selected.
- Material Name:** A text input field with the placeholder "Material Name".
- Material Variation:** A dropdown menu.
- Material Dimension:** A dropdown menu.
- Material Unit:** A text input field with the placeholder "Material Unit".
- Material Cost:** A text input field with the placeholder "Material Cost".
- Material Price:** A text input field with the placeholder "Material Price".
- Quantity:** A text input field with the placeholder "Quantity".
- Discount Type:** A dropdown menu with "Percentage" selected.
- Discount Percentage (in %):** A text input field with the value "20".
- Tax Code:** A text input field with the value "A/S_A".
- Tax Amount:** A text input field with the value "RM37.00".

At the bottom right of the modal, there are two buttons: "Close" and "Save Changes".

Figure 10.49: Add new order material in Edit Advertisement Order page

The screenshot shows a modal window titled "Generate Advertisement Quotation" with a close button (X) in the top right corner. The form contains the following fields:

- Remark:** A text input field with the value "Quotation v2".
- Issue Date:** A date picker showing "01/16/2024".
- Due Date:** A date picker showing "01/30/2024".

A "Generate" button is located at the bottom right of the modal and is highlighted with an orange rectangle.

In the background, the "Manage Advertisement Order" page is visible, showing a table with the following data:

ID	Remark	Issue Date	Due Date	Status	Prepared By	Approved By	Action
AQ01dc10	Quotation v1	2024-01-16	2024-01-25	Pending Approval	Ali		

Figure 10.50: Generate Quotation in Manage Advertisement Order Page

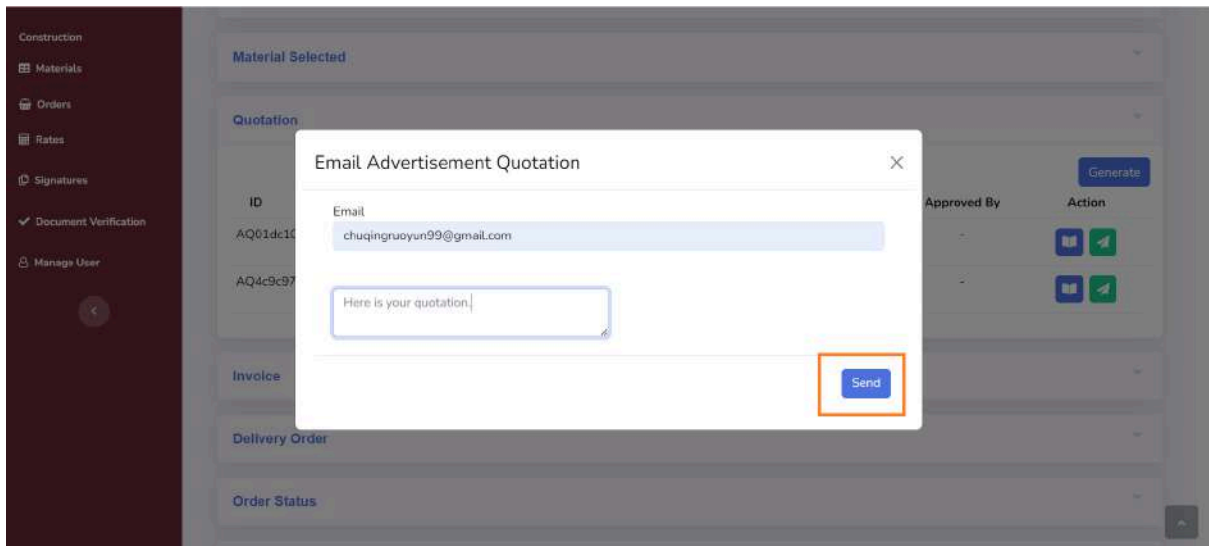


Figure 10.51: Send Quotation in Manage Advertisement Order Page

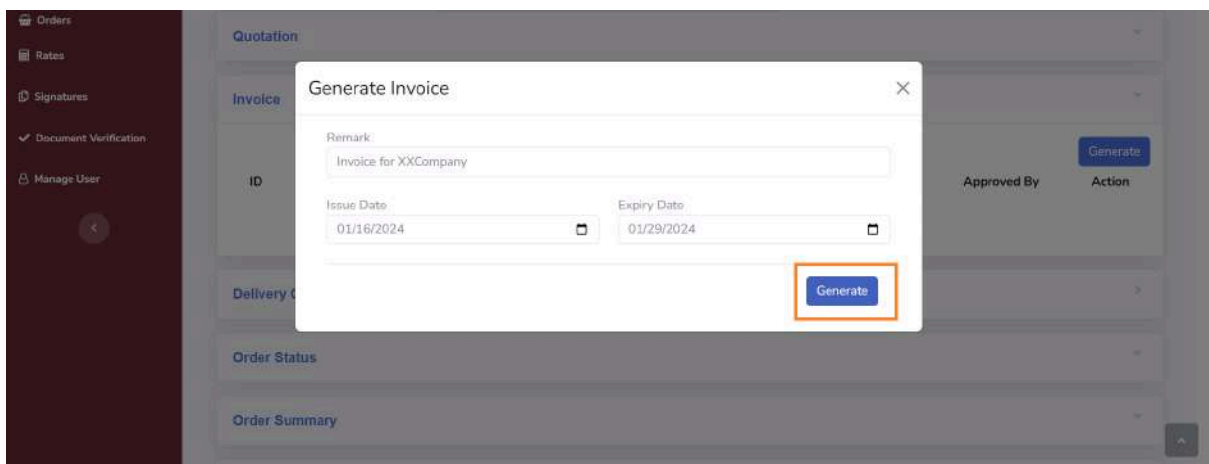


Figure 10.52: Generate Invoice in Manage Advertisement Order Page

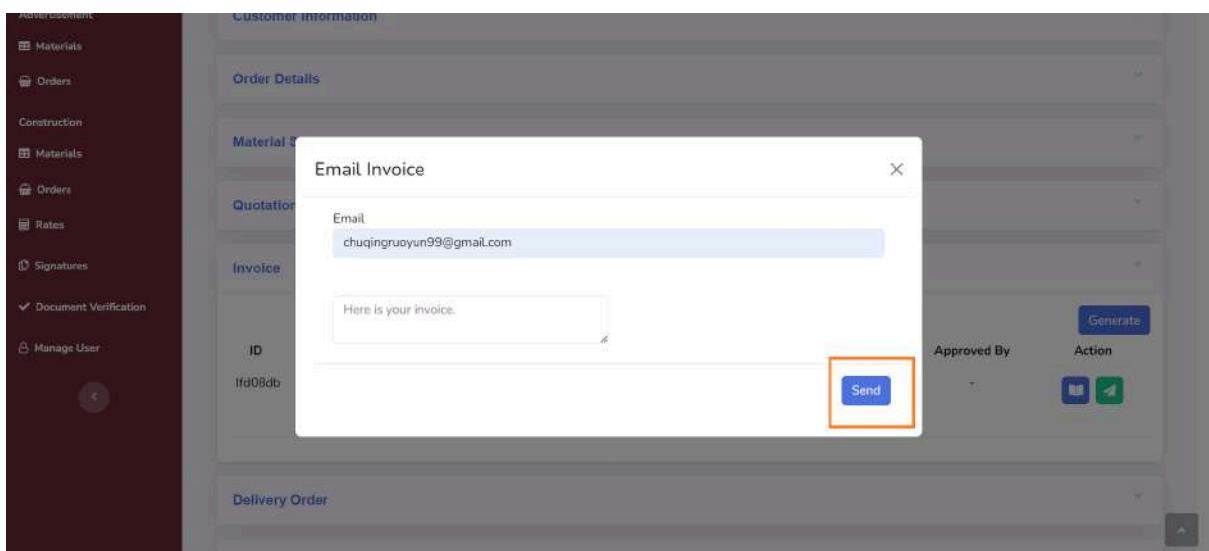


Figure 10.53: Email Invoice in Manage Advertisement Order Page

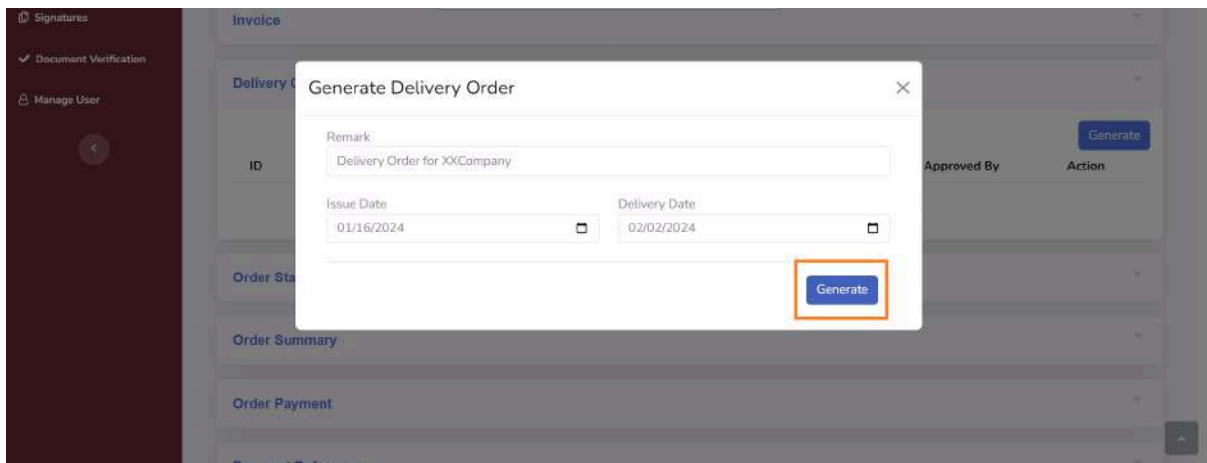


Figure 10.54: Generate Delivery Order in Manage Advertisement Order Page

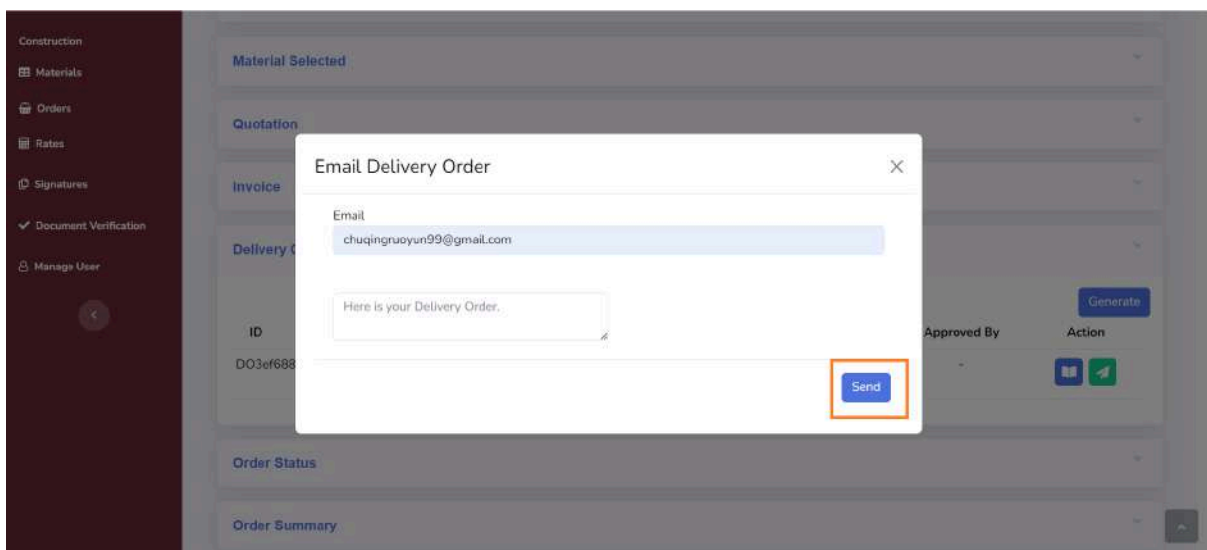


Figure 10.55: Send Delivery Order in Manage Advertisement Order Page

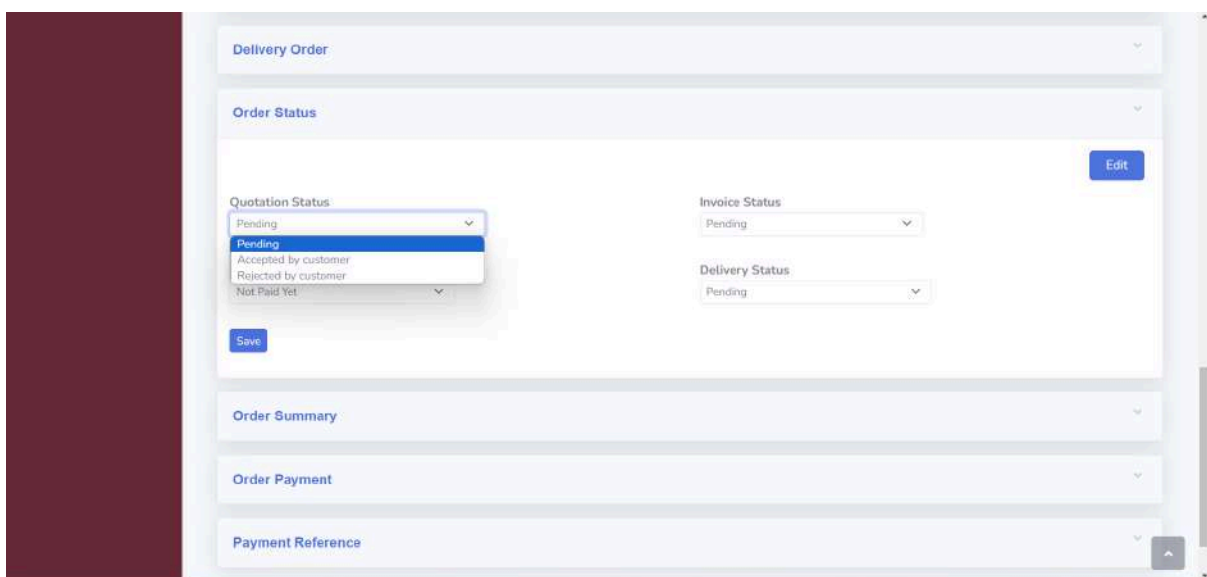


Figure 10.56: Quotation Status in Manage Advertisement Order Page

The screenshot displays the 'Manage Advertisement Order' page. The 'Order Status' section is active, showing four dropdown menus: 'Quotation Status' (set to 'Pending'), 'Invoice Status' (set to 'Pending'), 'Payment Status' (open, showing options: 'Not Paid Yet', 'Pending Payment', 'Deposit Paid', 'Fully Paid'), and 'Delivery Status' (set to 'Pending'). An 'Edit' button is located in the top right corner of the 'Order Status' section. Below this section are three expandable panels: 'Order Summary', 'Order Payment', and 'Payment Reference'. A vertical maroon bar is on the left side of the page.

Figure 10.57: Payment Status in Manage Advertisement Order Page

The screenshot displays the 'Manage Advertisement Order' page. The 'Order Status' section is active, showing four dropdown menus: 'Quotation Status' (set to 'Pending'), 'Invoice Status' (set to 'Pending'), 'Payment Status' (set to 'Not Paid Yet'), and 'Delivery Status' (open, showing options: 'Pending', 'Delivered'). A 'Save' button is located in the bottom left corner of the 'Order Status' section. Below this section are three expandable panels: 'Order Summary', 'Order Payment', and 'Payment Reference'. A vertical maroon bar is on the left side of the page.

Figure 10.58: Delivery Status in Manage Advertisement Order Page

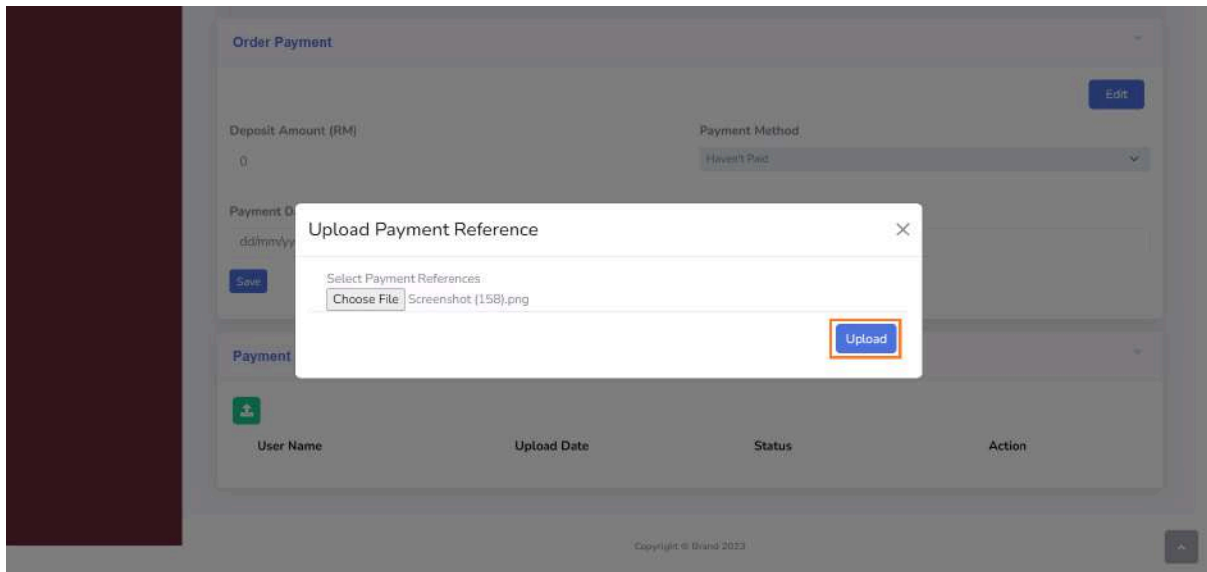


Figure 10.59: Upload Payment Reference in Manage Advertisement Order Page

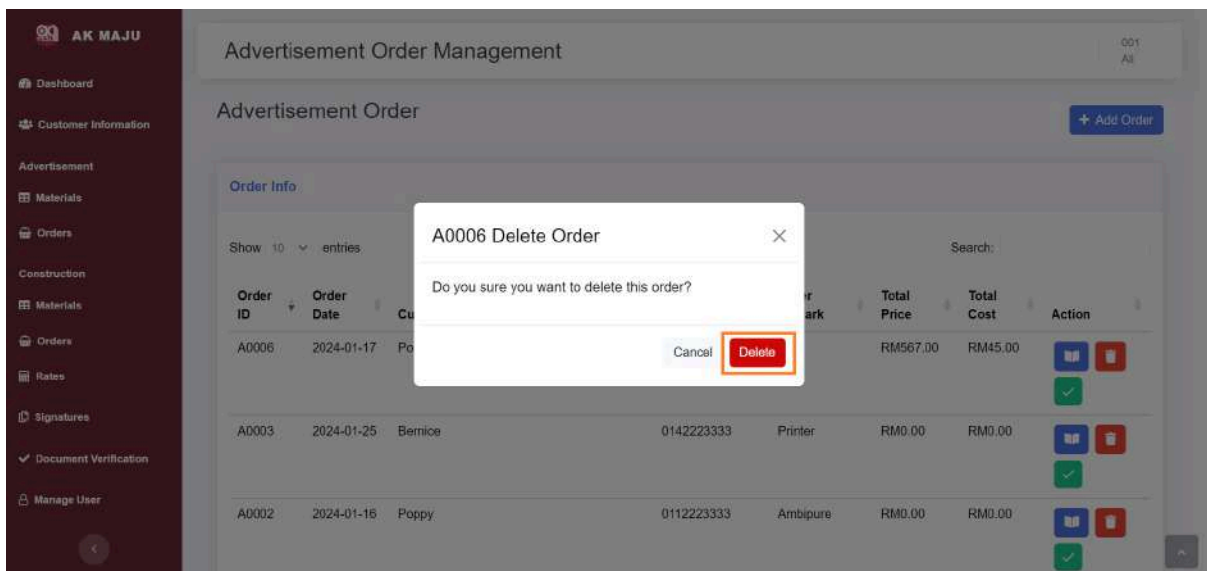


Figure 10.60: Delete Order in Advertisement Order Main Page

Showing 1 to 3 of 3 entries

Previous 1 Next

Cancelled Order

Show 10 entries Search:

Order ID	Order Date	Customer Name	Contact Number	Order Remark	Total Price	Total Cost	Action
A0006	2024-01-17	Poppy2	0123456782	s	RM567.00	RM45.00	

Showing 1 to 1 of 1 entries

Previous 1 Next

Complete Order

Show 10 entries Search:

Order ID	Order Date	Customer Name	Contact Number	Order Remark	Total Price	Total Cost	Action
----------	------------	---------------	----------------	--------------	-------------	------------	--------

Figure 10.61: Cancelled Order Table in Advertisement Order Main Page

Advertisement Order Management

Advertisement Order

+ Add Order

Order Info

Show 10 entries Search:

Order ID	Order Date	Customer Name	Contact Number	Order Remark	Total Price	Total Cost	Action
A0003	2024-01-25	Be			RM567.00	RM45.00	
A0002	2024-01-16	Poppy	0112223333	Ambipure	RM0.00	RM0.00	
A0001	2024-01-16	Aaron	0123456789	Sign Board	RM0.00	RM0.00	

A0003 Complete Order

Do you sure this order completed?

Cancel **Confirm**

Figure 10.62: Complete Order in Advertisement Order Main Page

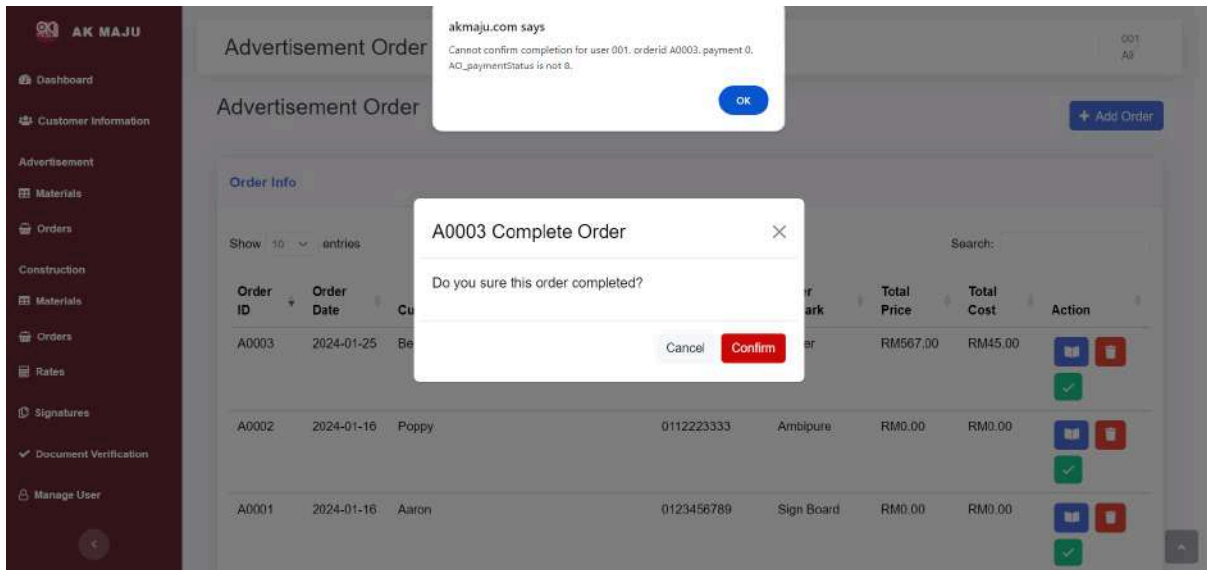


Figure 10.63: Complete Order Error if payment not fully paid in Advertisement Order Main Page

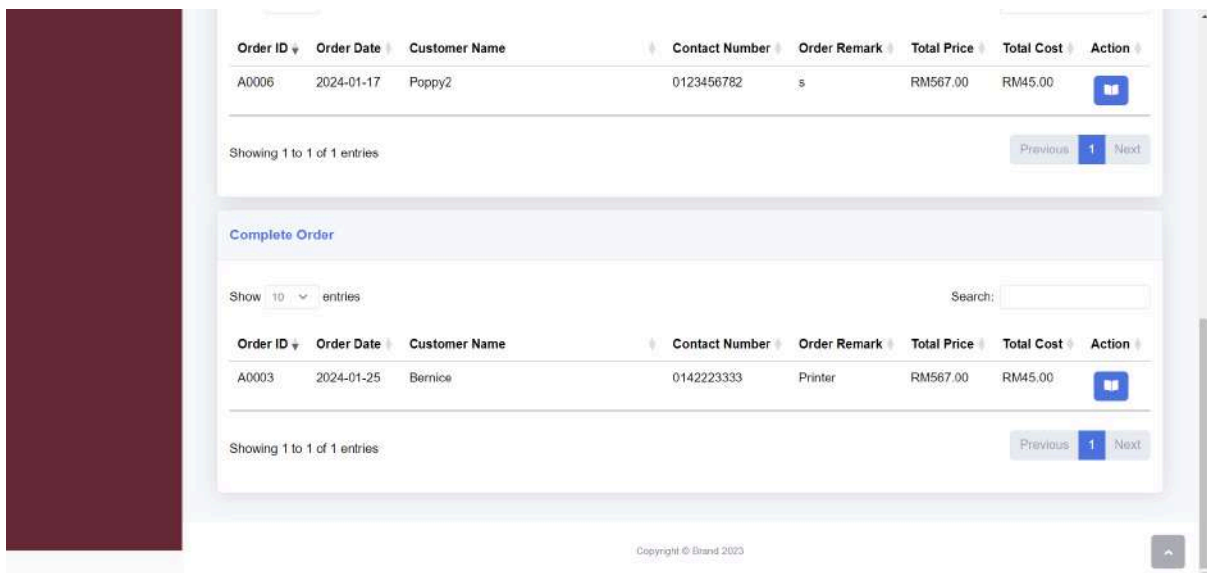


Figure 10.64: Complete Order Table in Advertisement Order Main Page

AK MAJU

Dashboard
Customer Information
Advertisement
Materials
Orders
Construction
Materials
Orders
Rates
Signatures
Document Verification
Manage User

Advertisement Order Management

001 All

Order Details

Customer Information

Name	Phone	Email	Address
Bernice	0142223333	125@gmail.com	Jalan malim jaya, Melaka raya, 75250, Melaka

Order Material

Show 10 entries
Search:

Material Name	Material Variation	Material Dimension	Material Price	Material Cost	Material MarkUp	Quantity	Material Unit
Wood	hali	25	567.00	45.00	1180%	1	1.00m

Showing 1 to 1 of 1 entries

Previous
1
Next

Figure 10.65: Advertisement Order Details Page

AK MAJU

Dashboard
Customer Information
Advertisement
Materials
Orders
Construction
Materials
Orders
Rates
Signatures
Document Verification
Manage User

Construction Order Management

001 All

Construction Order

+ Add Order

Order Info

Show 10 entries
Search:

Order ID	Order Date	Customer Name	Contact Number	Order Remark	Total Price	Action
C0012	2024-02-17	Poppy		Plastic Brick	RM144.60	<div> <div></div> <div></div> <div></div> </div>
C0011	2024-01-31	Poppy	0112223333	WE	RM1067.34	<div> <div></div> <div></div> <div></div> </div>
C0010	2024-02-02	Bernice	0142223333	sdsc	RM0.00	<div> <div></div> <div></div> <div></div> </div>
C0009	2024-01-30	Donny	0112223333	as	DL884.75	<div> <div></div> <div></div> <div></div> </div>

Figure 10.66: Order Info Construction Order page

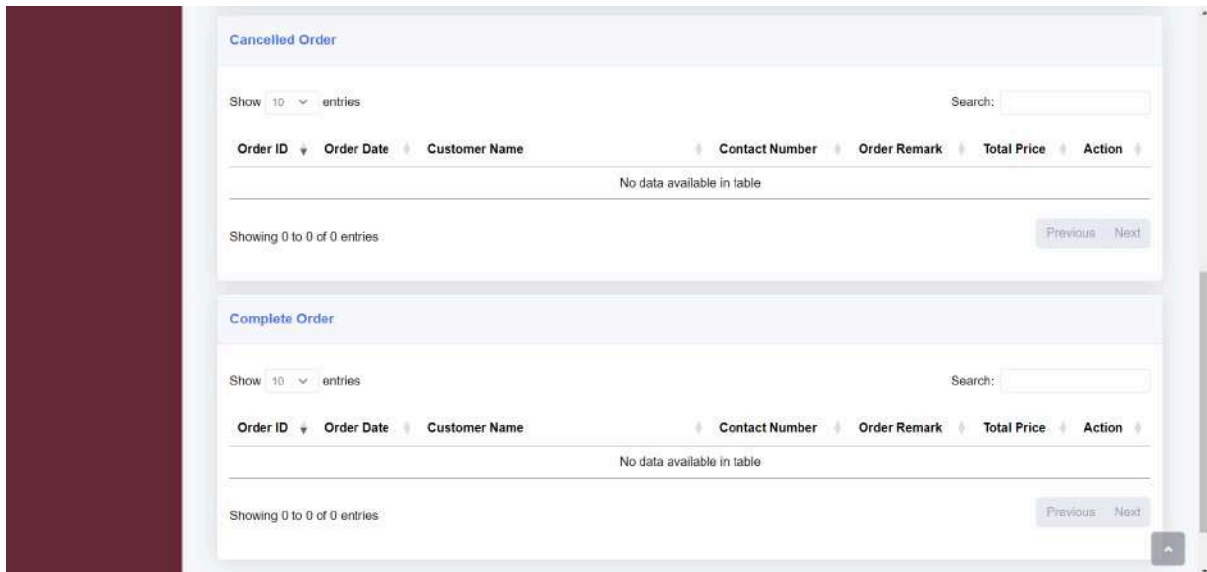


Figure 10.67: Cancelled Orders and Complete Orders in Construction Order page

The image shows the 'Add Order' page with a sidebar menu on the left containing: Dashboard, Customer Information, Advertisement, Materials, Orders, Construction, Materials, Orders, Rates, Signatures, Document Verification, and Manage User. The main content area is titled 'Construction Order Management' and 'Add Order'. It features a 'Customer Information' form with the following fields: Customer Name (Name), Customer Type (Personnel), Customer email (123@gmail.com), Customer phone (0123456789), Street (Street Details), City (City Details), Postcode (Postcode Details), and State (State Details). A 'Choose exist customer' button is located at the top right of the form.

Figure 10.68: Add Customer Information in Add Construction Order page

Order Details

Order Date: ☐

Order Remark:

Term of Payment:

Electric Information

Negeri:

Daerah:

Kawasan:

Tambahan Peratusan:

Kejuteraan Awam Information

Negeri:

Daerah:

Figure 10.69: Add Order Details in Add Construction Order page

Electric Information

Negeri:

Daerah:

Kawasan:

Tambahan Peratusan:

Kejuteraan Awam Information

Negeri:

Daerah:

Kawasan:

Tambahan Peratusan:

Copyright © Brand 2023

Figure 10.70: Electric and Civil Information in Add Construction Order page

Construction Order Management 001 All

Add Electric Order Material

Add Order Material

Material Type: PENDAWAIAN Material Variation:
Material Name:
Material Unit: Material Unit Material Price: Material Price
Quantity: Quantity
Discount Type: Percentage Discount Percentage (in %): 20
Tax Code: Tax Amount:

Figure 10.71: Add Electric Order Material in Add Construction Order page

Tax Code: AJS_A Tax Amount: RM37.00
Save Material

Material Selected

Show 10 entries Search:

Material ID	Material Type	Material Name	Material Variation	Material Unit	Unit Price	Total Price	Quantity	Discount Percentage	Discount Amount	Tax Amount
No data available in table										

Showing 0 to 0 of 0 entries Previous Next
Add Kejuteraan Kadar >

Figure 10.72: Electric Material Selected in Add Construction Order page

Edit Material

Material Type: II Material Unit: 1

Material Name: Papan agihan terlitup logsm jenis electrogalvanized steel sheet , kutub tunggal & neutral 1/d pemu

Material Variation: 6 hala

Material Price: 891.70 Quantity: 1

Discount Type: Percentage Discount Percentage (in %): 1.00

Tax Code: 1 Tax Amount: 1.00

Close Save Changes

Figure 10.73: Save Changes To Edit Electric Material in Add Construction Order page

Construction Order Management

Add Kadar Awam

Kadar Upah Buruh

Tukang: Tukang Batu Unit (day): 0

Kawasan: A - Pulau Pinang, Kedah dan Perlis Harga (RM): 0

Save

Kadar Sewa Logi

Logi: Backhoe Excavator (bucket 0.77 m3) Unit (day): 0

Kawasan: Harga (RM):

Figure 10.74: Labor Wage Rate and Lodging Rent Rate in Add Construction Order page

The screenshot displays a web interface for adding construction orders. On the left is a dark red sidebar with a 'Manage User' link at the top. The main content area has a light blue header with a dropdown menu showing 'Backhoe Excavator (bucket 0.77 m3)' and a numeric input field set to '0'. Below this is a 'Kawasan' (Area) dropdown menu showing 'A - Pulau Pinang, Kedah dan Perlis' and a 'Harga (RM)' (Price in RM) input field set to '0'. A blue 'Save' button is positioned below these fields. The section is titled 'Upah Buruh / Sewa Logi' (Labor Wage / Lodging Rent). It features a table with columns: 'Tukang / Logi' (Worker / Lodger), 'Unit', 'Kawasan' (Area), 'Harga' (Price), and 'Jumlah Harga' (Total Price). The table is currently empty, displaying 'No data available in table'. Above the table is a 'Show 10 entries' dropdown and a search bar. Below the table, it says 'Showing 0 to 0 of 0 entries' with 'Previous' and 'Next' navigation links. At the bottom of the section is a blue button labeled 'Add Kejuteraan Order Material >'. The footer includes a copyright notice 'Copyright © Brand 2023' and a small upward arrow icon.

Figure 10.75: Overall Labor Wage and Lodging Rent Rate in Add Construction Order page

The screenshot shows the 'Add Civil Order Material' page within the 'Construction Order Management' system. The left sidebar is dark red with the 'AK MAJU' logo and a list of menu items: Dashboard, Customer Information, Advertisement, Materials, Orders, Construction, Materials, Orders, Rates, Signatures, Document Verification, and Manage User. The main content area has a light blue header with 'Construction Order Management' and a '001 All' filter. Below the header is the title 'Add Kejuteraan Awam Order Material'. The 'Add Order Material' section contains several input fields: 'Material Type' (dropdown menu showing 'MENGKALI TANAH, PARIT DAN LAIN-LAIN'), 'Material Name' (text input), 'Material Variation' (dropdown menu), 'Material Unit' (text input showing 'Material Unit'), 'Material Price' (text input showing 'Material Price'), 'Quantity' (text input), 'Discount Type' (dropdown menu showing 'Percentage'), 'Discount Percentage (in %)' (text input showing '20'), 'Tax Code' (text input), and 'Tax Amount' (text input). A blue upward arrow icon is located at the bottom right of the form.

Figure 10.76: Add Civil Order Material in Add Construction Order page

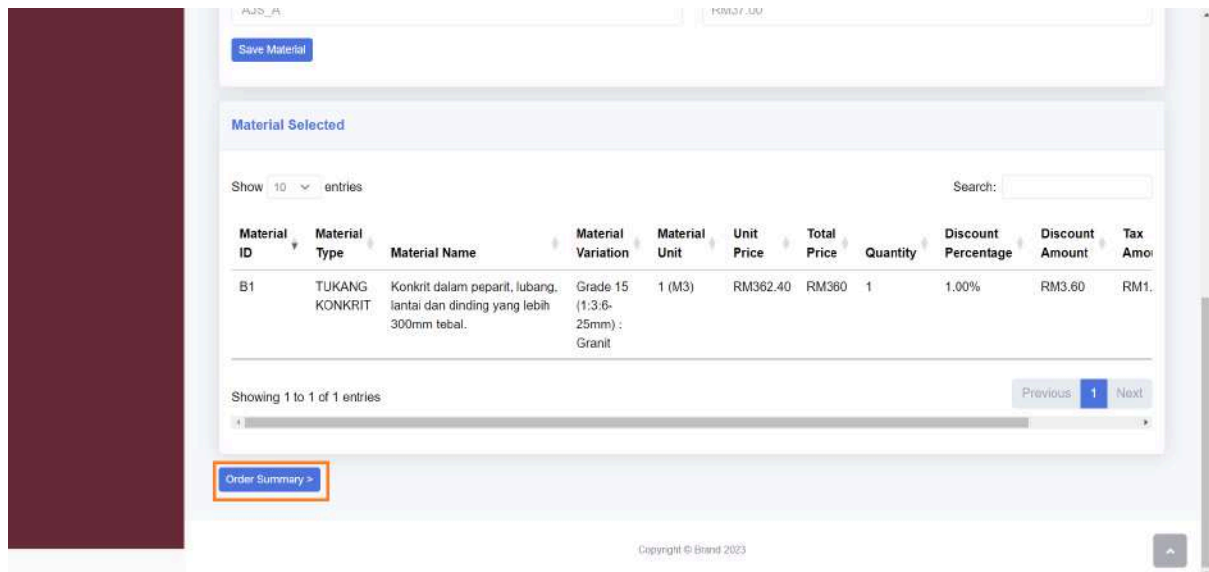


Figure 10.77: Civil Order Material Selected in Add Construction Order page

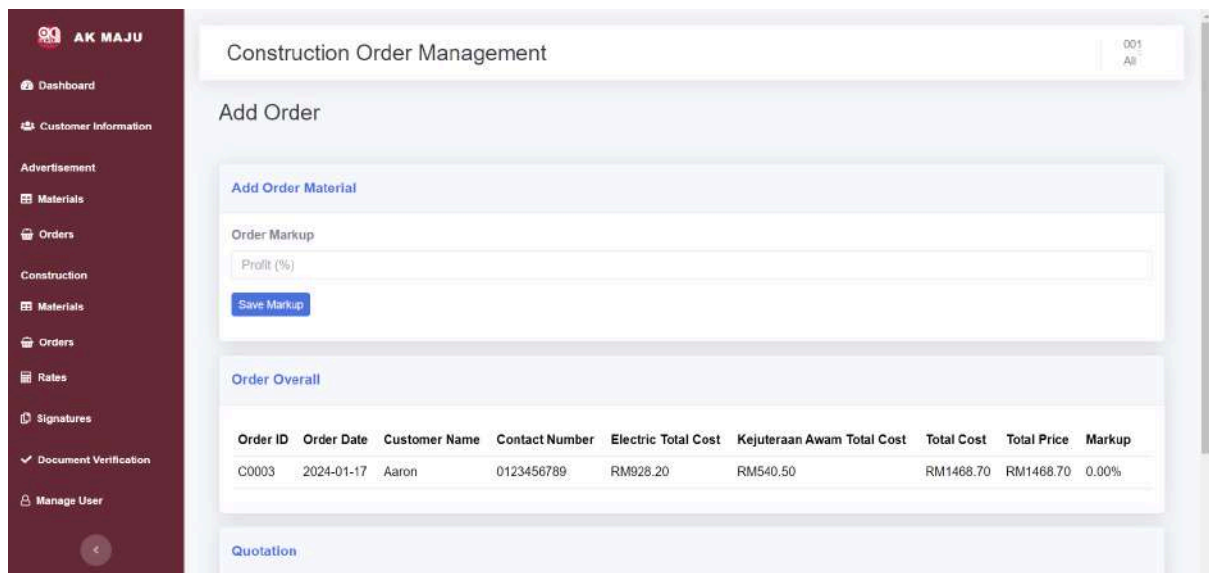


Figure 10.78: Order summary page in Add Construction Order page 1

Advertisement

Materials

Orders

Construction

Materials

Orders

Rates

Signatures

Document Verification

Manage User

Add Order Material

Order Markup

Profit (%)

Save Markup

Order Overall

Order ID	Order Date	Customer Name	Contact Number	Electric Total Cost	Kejuteraan Awam Total Cost	Total Cost	Total Price	Markup
C0003	2024-01-17	Aaron	0123456789	RM928.20	RM540.50	RM1468.70	RM1468.70	0.00%

Quotation

ID

Remark

Issue Date

Due Date

Status

Prepared By

Approved By

Action

No quotation has been generated.

Generate

Figure 10.79: Order summary page in Add Construction Order page 2

Construction

Materials

Orders

Rates

Signatures

Document Verification

Manage User

Order Markup

0.00

Save Markup

Order Summary

Order ID	Remark	Issue Date	Due Date	Total Cost	Total Price	Markup
C0003	Quotation v1	01/16/2024	01/25/2024	RM1468.70	RM1468.70	0.00%

Quotation

ID

Remark

Issue Date

Due Date

Status

Prepared By

Approved By

Action

No quotation has been generated.

Generate

Figure 10.80: Generate Construction Quotation in Add Construction Order page 2

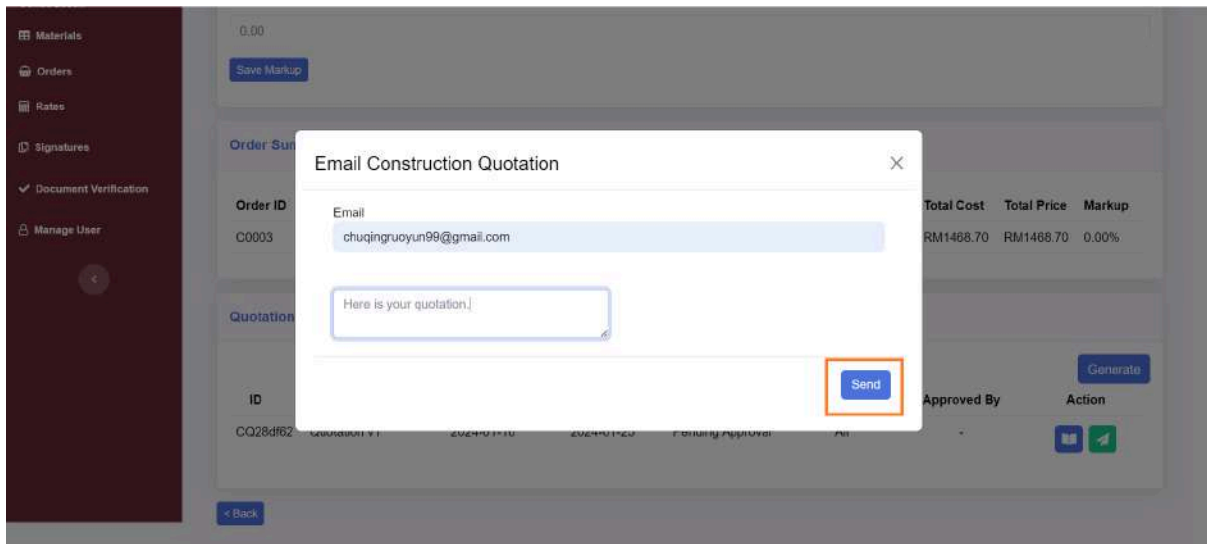


Figure 10.81: Email Construction Quotation in Add Construction Order page 2

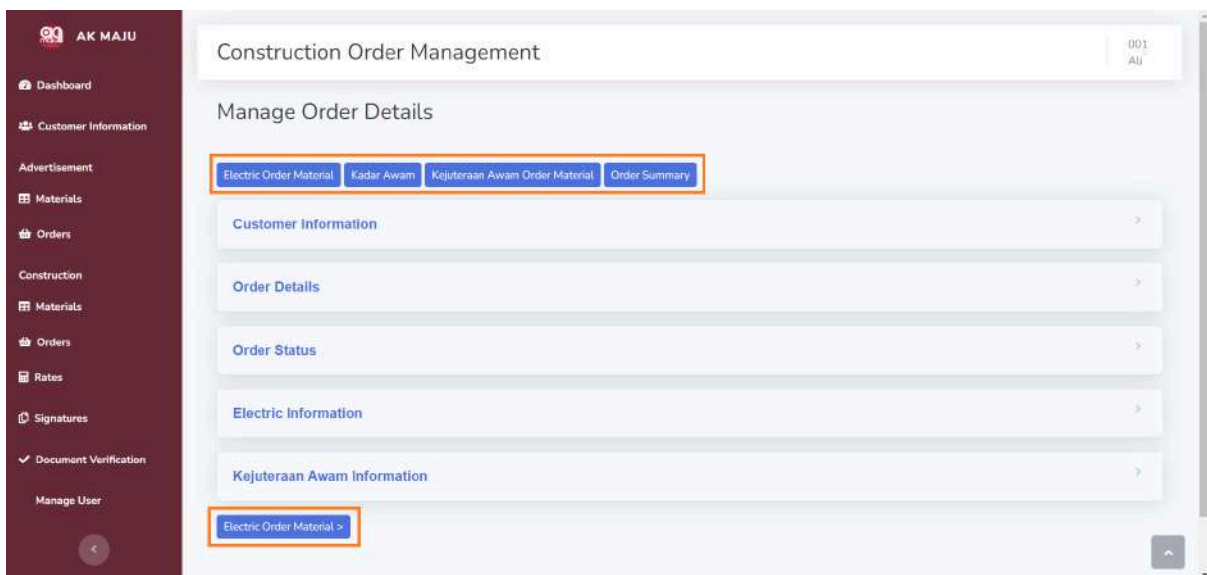


Figure 10.82: Manage Order Details in Construction Order page

Construction Order Management

001 AS

Edit Electric Order

Order Details | **Kadar Awam** | Kejuruteraan Awam Order Material | Order Summary

Add Order Material

Material Type: PENDAWAIAAN | Material Variation:

Material Name:

Material Unit: Material Unit | Material Price: Material Price

Quantity: Quantity

Discount Type: Percentage | Discount Percentage (in %): 20

Figure 10.83: Edit Electric Order Material in Construction Order page

Save Material

Material Selected

Show 10 entries | Search:

Material ID	Material Type	Material Name	Material Variation	Material Unit	Unit Price	Total Price	Quantity	Discount Percentage	Discount Amount
B2	PAPAN AGIHAN, PEMUTUS LITAR DAN PERALATAN PERLINDUNGAN	Papan agihan terlitup logam jenis electrogalvanized steel sheet , kutub tunggal & neutral l/d pemutus litar kecil (MCB) berkadaran hingga 32 A dengan beban memutus 6 kA;	6 hala	1 (satu)	RM891.70	RM884	1	1.00%	RM8.84

Showing 1 to 1 of 1 entries | Previous 1 Next

< Back | Kadar Awam >

Figure 10.84: Edit Electric Order Material Selected in Construction Order page

AK MAJU

Dashboard

Customer Information

Advertisement

Materials

Orders

Construction

Materials

Orders

Rates

Signatures

Document Verification

Manage User

Construction Order Management

001 A8

Edit Kadar Awam

Order Details | Electric Order Material | **Kejuteraan Awam Order Material** | Order Summary

Kadar Upah Buruh

Tukang

Tukang Batu

Unit (day)

0

Kawasan

A - Pulau Pinang, Kedah dan Perlis

Harga (RM)

0

Save

Kadar Sewa Logi

Logi

Backhoe Excavator (bucket 0.77 m3)

Unit (day)

0

Figure 10.85: Edit Order Salary in Construction Order page

Manage User

Kadar Sewa Logi

Logi

Backhoe Excavator (bucket 0.77 m3)

Unit (day)

0

Kawasan

A - Pulau Pinang, Kedah dan Perlis

Harga (RM)

0

Save

Upah Buruh / Sewa Logi

Add Kadar Upah Buruh

Add Kadar Sewa Logi

Show 10 entries

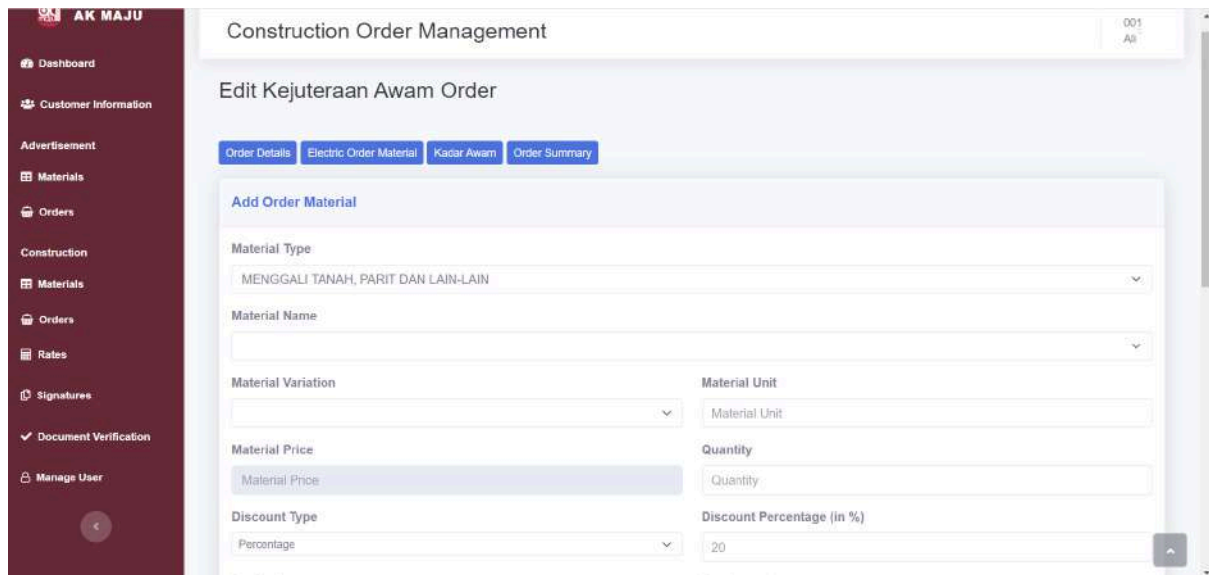
Search:

Tukang / Logi	Unit	Kawasan	Harga	Jumlah Harga
Tukang Batu-bata	1 Day	B	RM110.00	RM110

Showing 1 to 1 of 1 entries

Previous 1 Next

Figure 10.86: View and delete Order Salary in Construction Order page



Construction Order Management

Edit Kejuteraan Awam Order

Order Details | Electric Order Material | **Kadar Awam** | Order Summary

Add Order Material

Material Type: MENGKALI TANAH, PARIT DAN LAIN-LAIN

Material Name:

Material Variation:

Material Unit: Material Unit

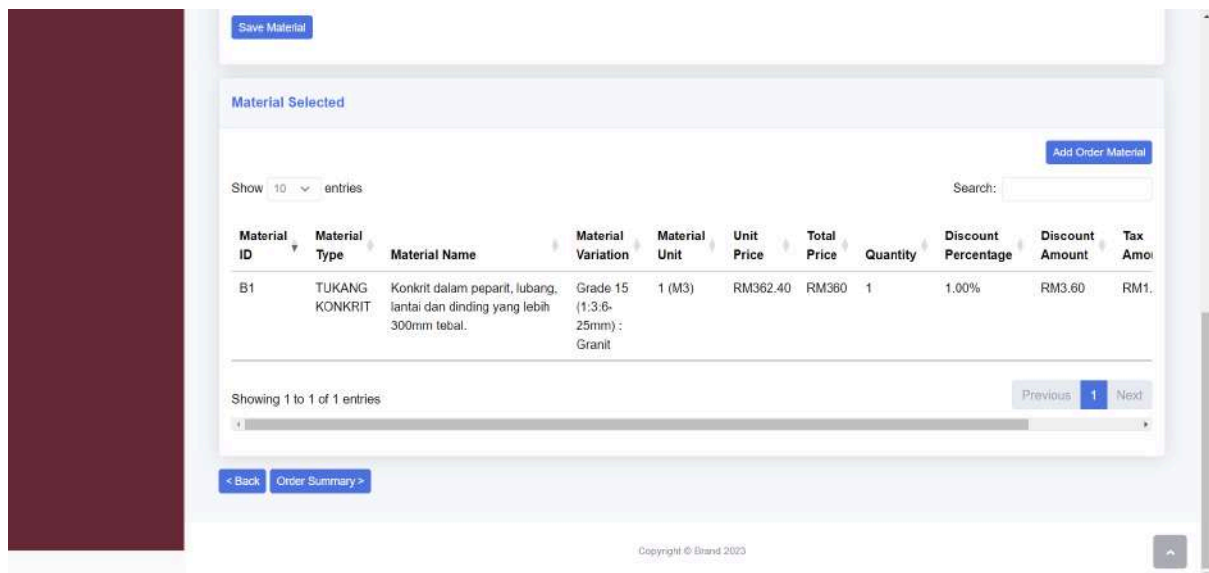
Material Price: Material Price

Quantity: Quantity

Discount Type: Percentage

Discount Percentage (in %): 20

Figure 10.87: Edit Civil Order Material in Construction Order page



Save Material

Material Selected

Show 10 entries

Search:

Add Order Material

Material ID	Material Type	Material Name	Material Variation	Material Unit	Unit Price	Total Price	Quantity	Discount Percentage	Discount Amount	Tax Amount
B1	TUKANG KONKRIT	Konkrit dalam peparit, lubang, lantai dan dinding yang lebih 300mm tebal.	Grade 15 (1:3.6+25mm); Granit	1 (M3)	RM362.40	RM360	1	1.00%	RM3.60	RM1.

Showing 1 to 1 of 1 entries

Previous 1 Next

< Back | Order Summary >

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Figure 10.88: Manage Civil Order Material Selected in Edit Construction Order page

AK MAJU

Dashboard

Customer Information

Advertisement

Materials

Orders

Construction

Materials

Orders

Rates

Signatures

Document Verification

Manage User

Construction Order Management

001 Ali

Edit Order

Order Details Electric Order Material Kadar Awam Kejuteraan Awam Order Material

Edit Order Material

Order Markup

5.00

Save Markup

Order Summary

Order ID	Order Date	Customer Name	Contact Number	Electric Total Cost	Kejuteraan Awam Total Cost	Total Cost	Total Price	Markup
C0003	2024-01-17	Aaron	0123456789	RM928.20	RM540.50	RM1468.70	RM1542.14	5.00%

Figure 10.89: Manage Construction Order Summary in Construction Order page 1

Construction

Materials

Orders

Rates

Signatures

Document Verification

Manage User

Order Markup

5.00

Save Markup

Order Summary

Order ID	Order Date	Customer Name	Contact Number	Electric Total Cost	Kejuteraan Awam Total Cost	Total Cost	Total Price	Markup
C0003	2024-01-17	Aaron	0123456789	RM928.20	RM540.50	RM1468.70	RM1542.14	5.00%

Quotation

ID	Remark	Issue Date	Due Date	Status	Prepared By	Approved By	Action
CQ28df62	Quotation v1	2024-01-16	2024-01-25	Approved	Ali	Ali	<div>Generate</div> <div> </div>

< Back

Figure 10.90: Manage Construction Order Summary in Construction Order page 2

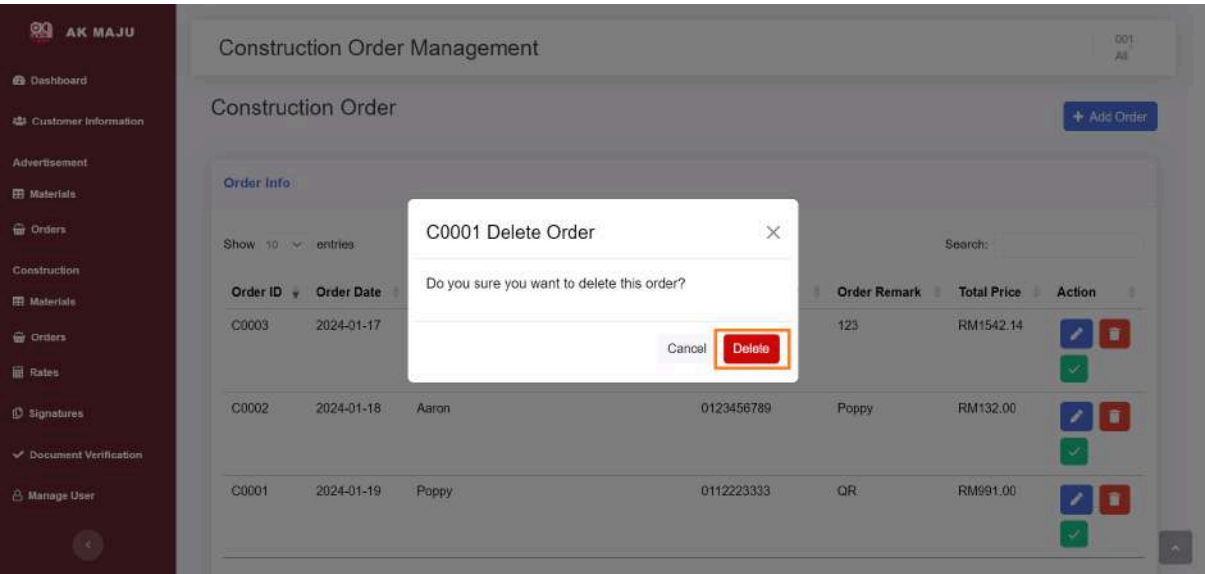


Figure 10.91: Confirm Cancel Order in Construction Order page

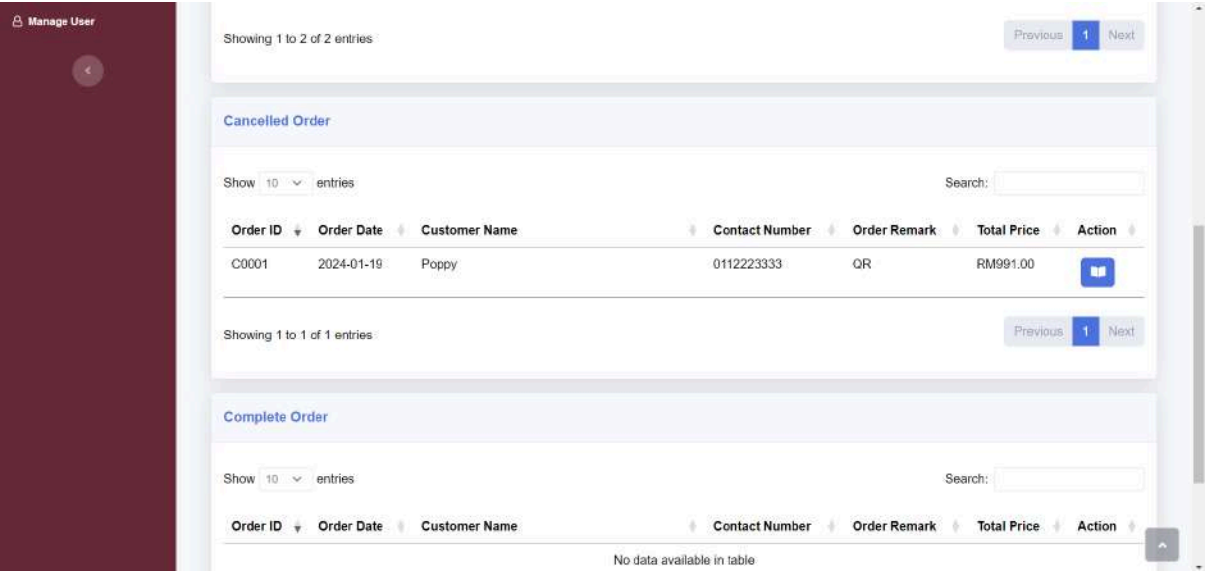


Figure 10.92: Cancelled Order Table in Construction Order page

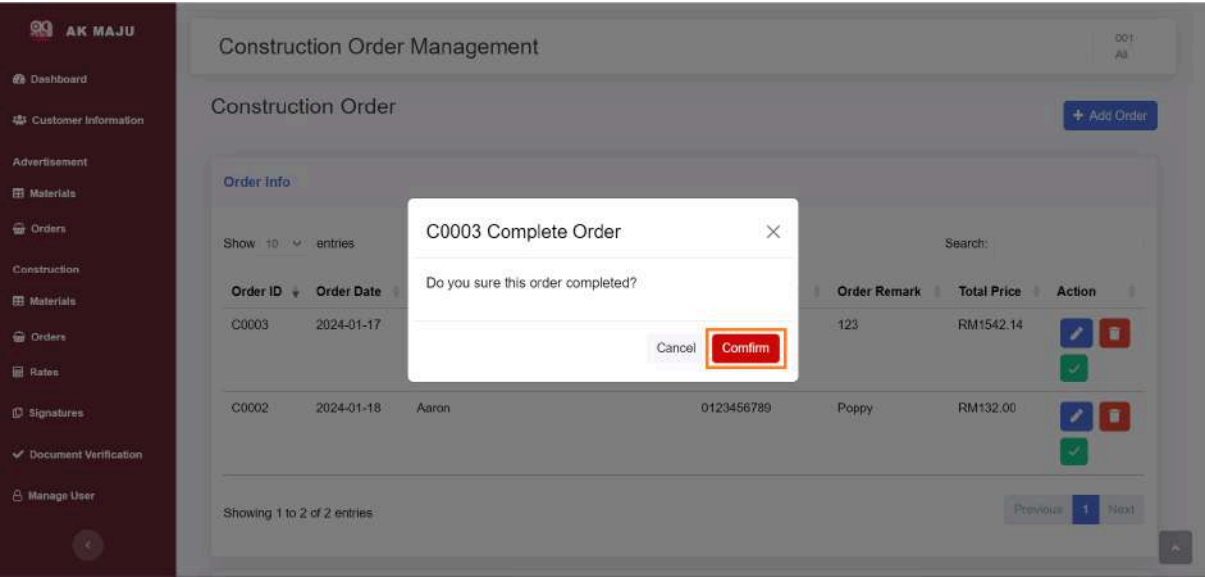


Figure 10.93: Confirm complete order in Construction Order page

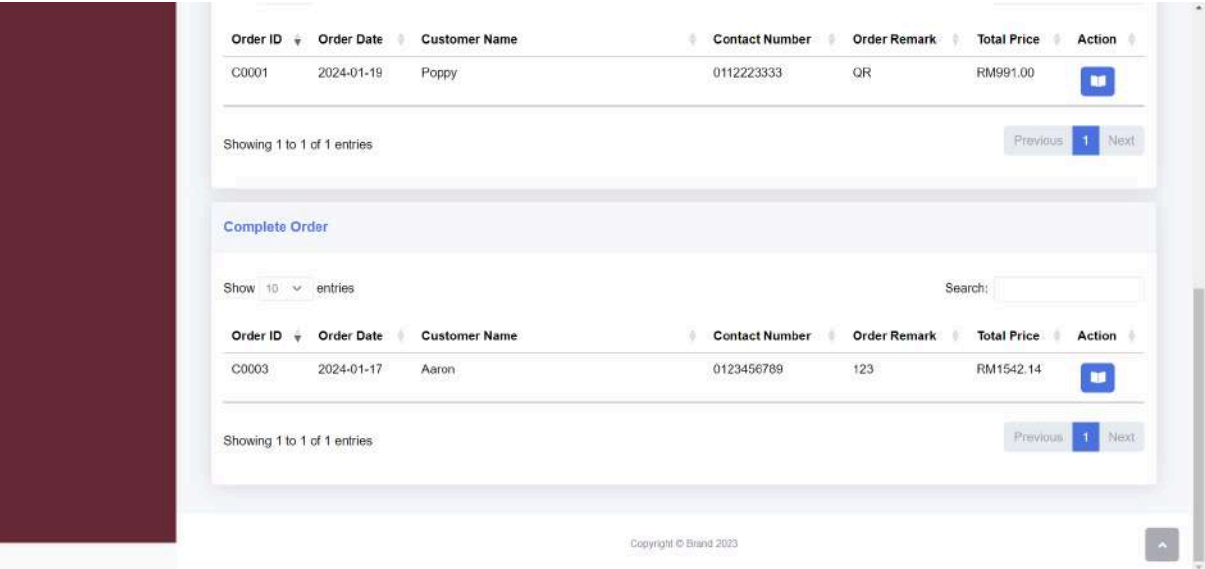


Figure 10.94: Completed Order Table in Construction Order page

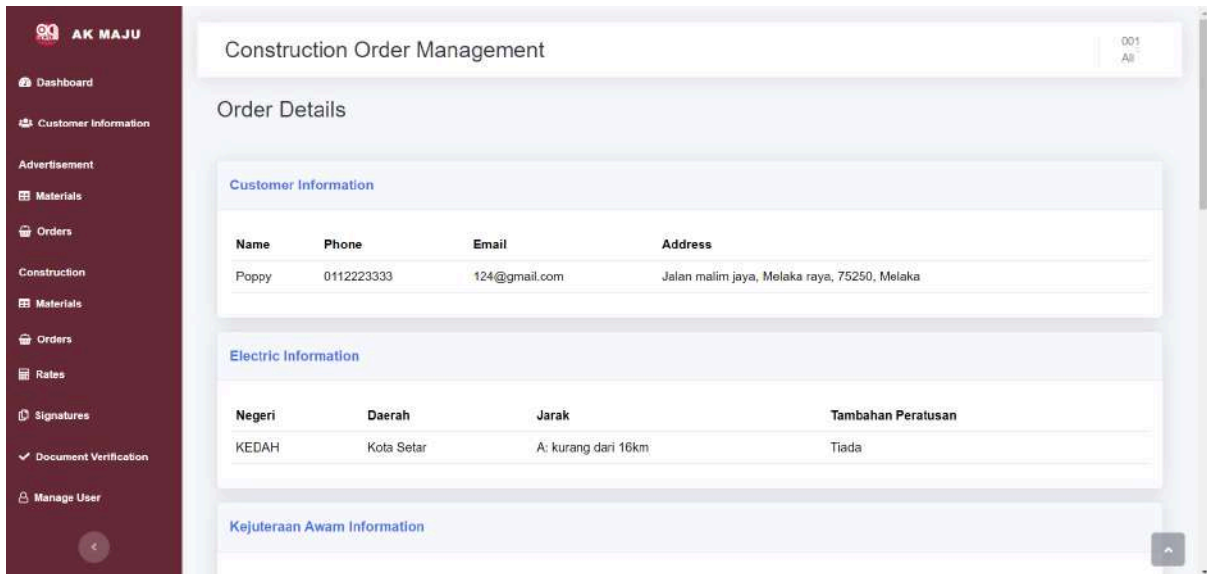


Figure 10.95: View Cancelled and Completed Order in Construction Order page

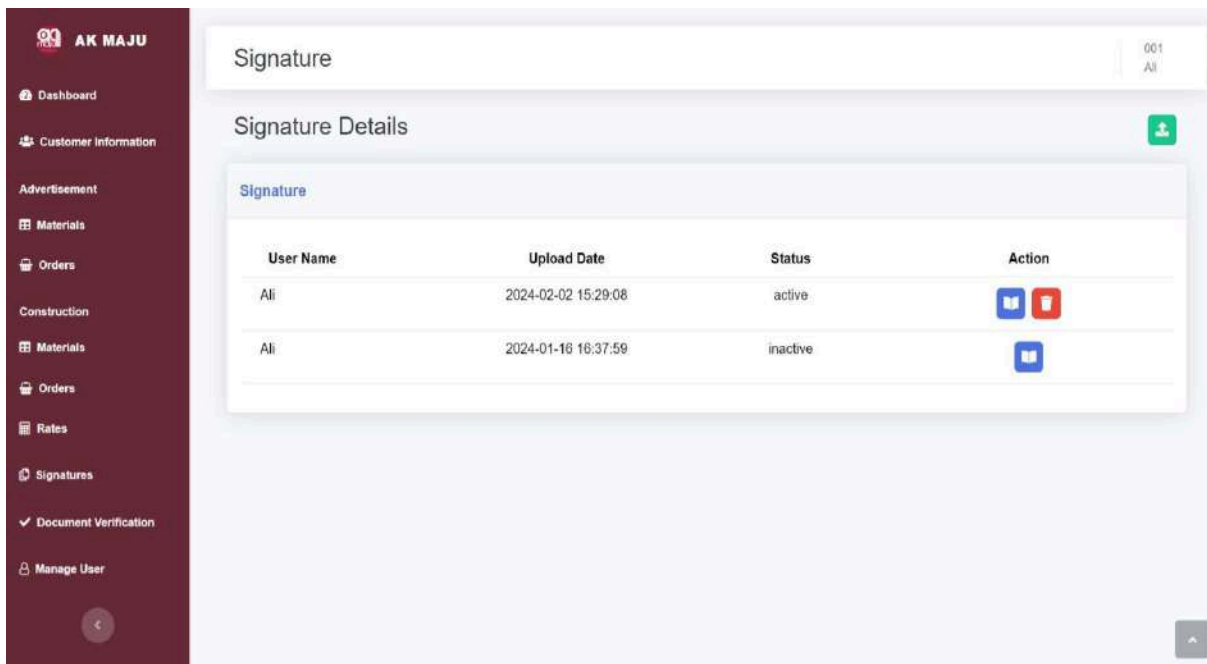


Figure 10.96: Admin and staff viewing uploaded signatures

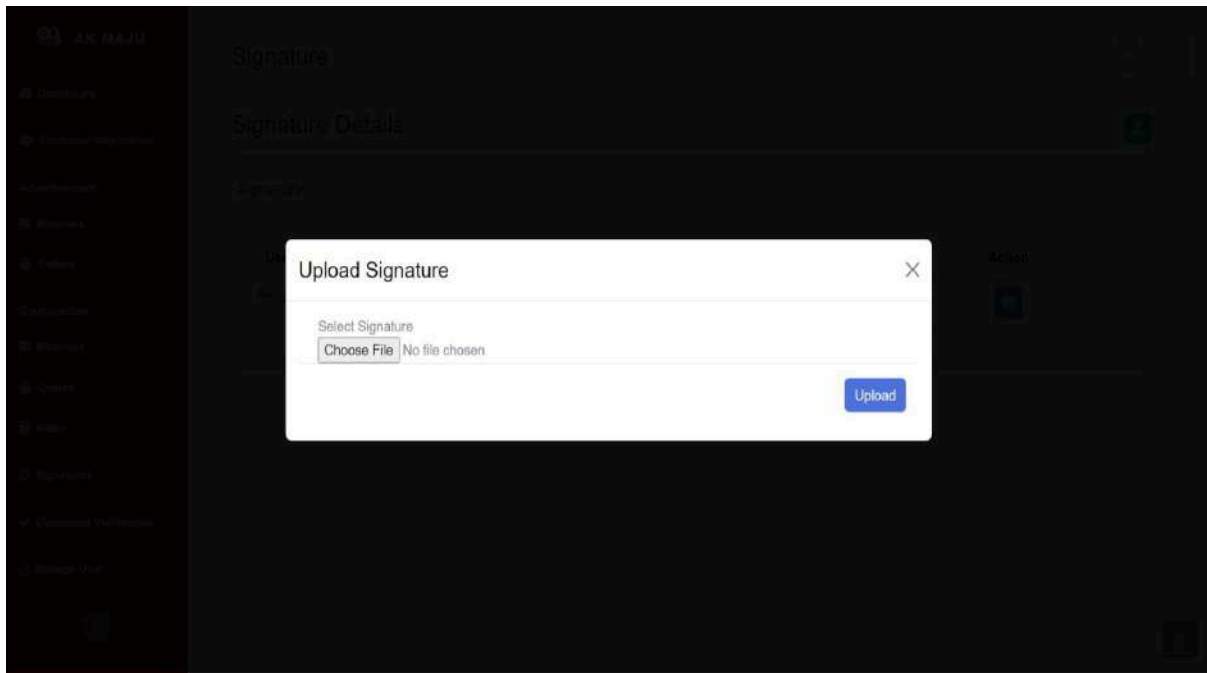


Figure 10.97: Admin and staff uploading signature

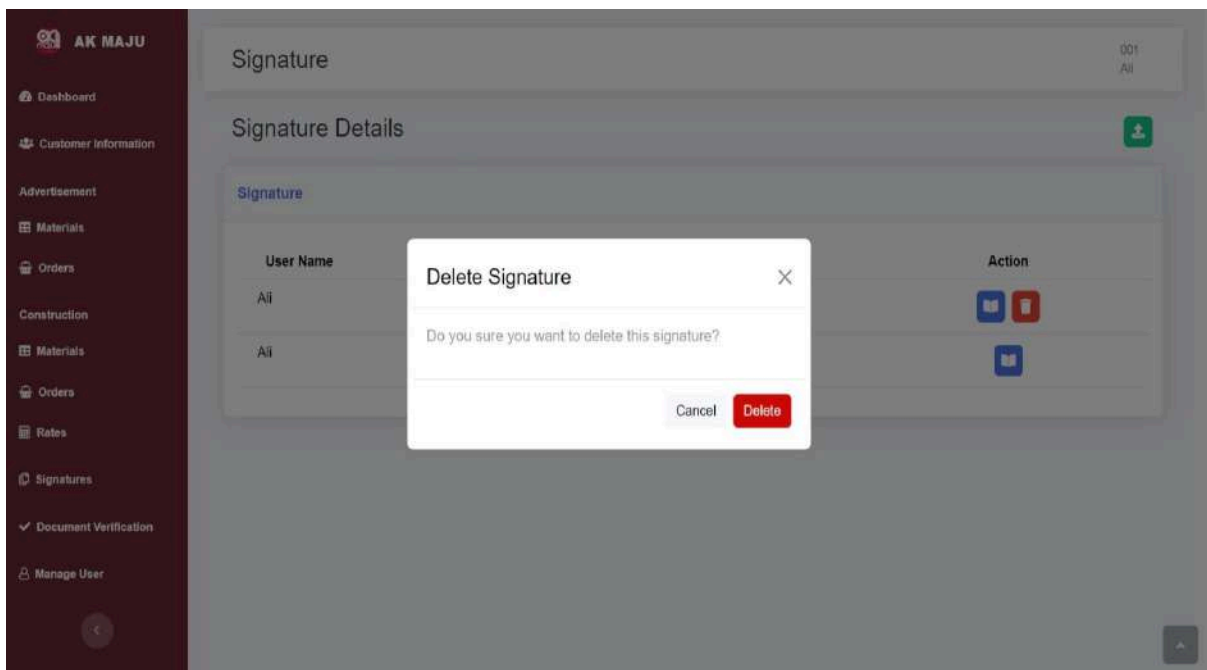


Figure 10.98: Admin and staff deleting signature

AK MAJU

Dashboard
Customer Information
Advertisement
Materials
Orders
Construction
Materials
Orders
Rates
Signatures
Document Verification
Manage User

Document Verification

001 Ali

Document Verification Details

[Advertisement Quotations](#) / [Construction Quotations](#) / [Invoices](#) / [Delivery Orders](#)

Advertisement Quotations Awaiting Approval

Show 5 entries
Search:

ID	Customer	Generation Date	Generated By	Status	Action
No data available in table					

Showing 0 to 0 of 0 entries

Previous Next

All Advertisement Quotations

Show 5 entries
Search:

ID	Customer	Generation Date	Generated By	Approved By	Status
AQde408c	Poppy	2024-01-29	Ali	Ali	Approved

Showing 1 to 1 of 1 entries

Previous 1 Next

Figure 10.99: Admin viewing generated advertisement quotations

AK MAJU

Dashboard
Customer Information
Advertisement
Materials
Orders
Construction
Materials
Orders
Rates
Signatures
Document Verification
Manage User

Document Verification

001 Ali

Document Verification Details

[Advertisement Quotations](#) / [Construction Quotations](#) / [Invoices](#) / [Delivery Orders](#)

Construction Quotations Awaiting Approval

Show 5 entries
Search:

ID	Customer	Generation Date	Generated By	Status	Action
CQ145207	Poppy	2024-02-02	Ali	Pending Approval	
CQca7fd9	Poppy	2024-01-16	Ali	Pending Approval	

Showing 1 to 2 of 2 entries

Previous 1 Next

All Construction Quotations

Show 5 entries
Search:

Figure 10.100: Admin viewing generated construction quotations

AK MAJU

- Dashboard
- Customer Information
- Advertisement
- Materials
- Orders
- Construction
- Materials
- Orders
- Rates
- Signatures
- Document Verification
- Manage User

Document Verification

001 Ali

Document Verification Details

[Advertisement Quotations](#) /
 [Construction Quotations](#) /
 [Invoices](#) /
 [Delivery Orders](#)

Invoices Awaiting Approval

Show 5 entries

Search:

ID	Customer	Generation Date	Generated By	Status	Action
No data available in table					

Showing 0 to 0 of 0 entries

Previous Next

All Invoice

Show 5 entries

Search:

ID	Customer	Generation Date	Generated By	Checked By	Approved By	Status
lc394e8	Poppy	2024-01-29	Ali	Ali	Ali	Checked and Approved

Figure 10.101: Admin viewing generated invoices

AK MAJU

- Dashboard
- Customer Information
- Advertisement
- Materials
- Orders
- Construction
- Materials
- Orders
- Rates
- Signatures
- Document Verification
- Manage User

Document Verification

001 Ali

Document Verification Details

[Advertisement Quotations](#) /
 [Construction Quotations](#) /
 [Invoices](#) /
 [Delivery Orders](#)

Delivery Orders Awaiting Approval

Show 5 entries

Search:

ID	Customer	Generation Date	Generated By	Status	Action
No data available in table					

Showing 0 to 0 of 0 entries

Previous Next

All Delivery Orders

Show 5 entries

Search:

ID	Customer	Generation Date	Generated By	Approved By	Status
No data available in table					

Showing 0 to 0 of 0 entries

Previous Next

Figure 10.102: Admin viewing generated delivery orders

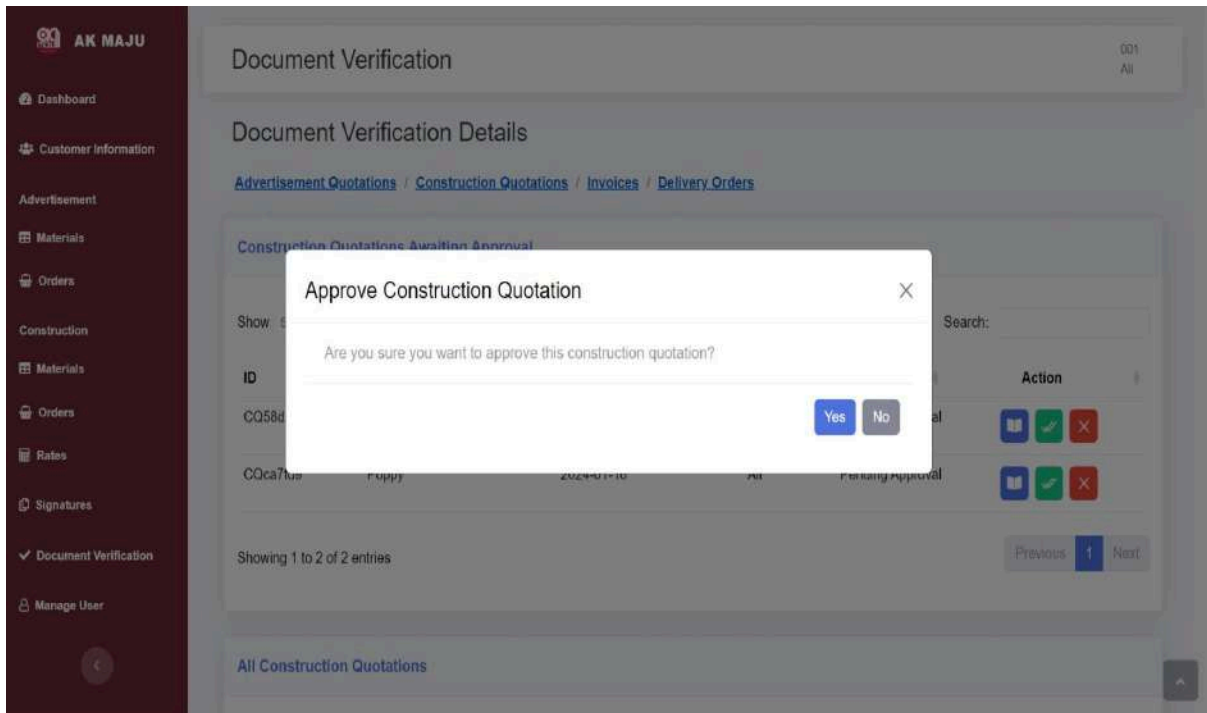


Figure 10.103: Admin approving document

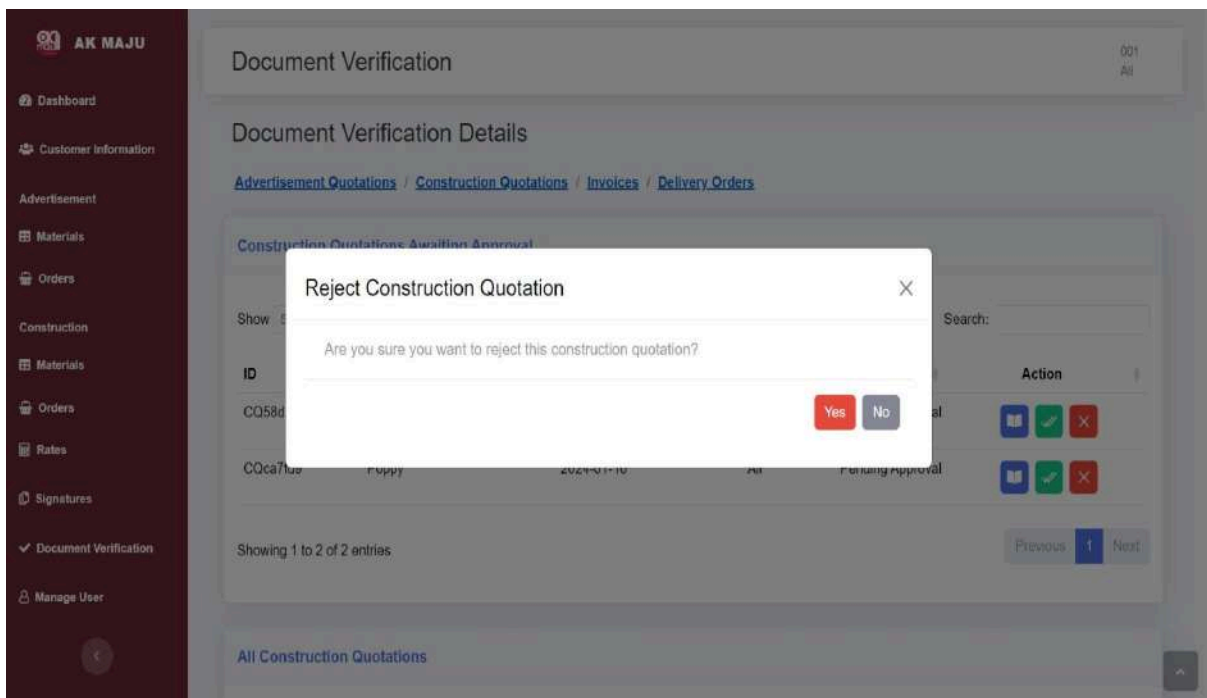


Figure 10.104: Admin rejecting document

AK MAJU

Dashboard

Customer Information

Advertisement

Materials

Orders

Construction

Materials

Orders

Rates

Signatures

Document Verification

Document Verification

002456

Document Verification Details

[Invoices](#) / [Advertisement Quotations](#) / [Construction Quotations](#) / [Delivery Orders](#)

Invoices Awaiting Approval

Show5entries

Search:

ID	Customer	Generation Date	Generated By	Status	Action
10c4228	Bernice	2024-02-02	456	Pending Review and Approval	<div><div></div><div></div><div></div></div>

Showing 1 to 1 of 1 entries

Previous

1

Next

All Invoice

Show5entries

Search:

ID	Customer	Generation Date	Generated By	Checked By	Approved By	Status
----	----------	-----------------	--------------	------------	-------------	--------

Figure 10.105: Staff viewing generated invoices

AK MAJU

Dashboard

Customer Information

Advertisement

Materials

Orders

Construction

Materials

Orders

Rates

Signatures

Document Verification

Document Verification

002456

Document Verification Details

[Invoices](#) / [Advertisement Quotations](#) / [Construction Quotations](#) / [Delivery Orders](#)

All Advertisement Quotations

Show5entries

Search:

ID	Customer	Generation Date	Generated By	Approved By	Status
AQde409c	Poppy	2024-01-29	Ali	Ali	Approved

Showing 1 to 1 of 1 entries

Previous

1

Next

Figure 10.106: Staff viewing all generated advertisement quotations

109

AK MAJU

Dashboard

Customer Information

Advertisement

Materials

Orders

Construction

Materials

Orders

Rates

Signatures

Document Verification

Document Verification

002456

Document Verification Details

[Invoices](#) / [Advertisement Quotations](#) / [Construction Quotations](#) / [Delivery Orders](#)

All Construction Quotations

Show 5 entries

Search:

ID	Customer	Generation Date	Generated By	Approved By	Status
CQ145207	Poppy	2024-02-02	Ali	-	Pending Approval
CQ28df82	Aaron	2024-01-16	Ali	Ali	Approved
CQ320035	Yan Qing	2024-01-17	Ali	Ali	Approved
CQ4767f1	Poppy	2024-01-30	Ali	-	Rejected
CQ7e2af0	Yan Qing	2024-01-17	Ali	-	Rejected

Showing 1 to 5 of 8 entries

Previous

1

2

Next

Figure 10.107: Staff viewing all generated construction quotations

AK MAJU

Dashboard

Customer Information

Advertisement

Materials

Orders

Construction

Materials

Orders

Rates

Signatures

Document Verification

Document Verification

002456

Document Verification Details

[Invoices](#) / [Advertisement Quotations](#) / [Construction Quotations](#) / [Delivery Orders](#)

All Delivery Orders

Show 5 entries

Search:

ID	Customer	Generation Date	Generated By	Approved By	Status
No data available in table					

Showing 0 to 0 of 0 entries

Previous

Next

Figure 10.108: Staff viewing all generated delivery orders

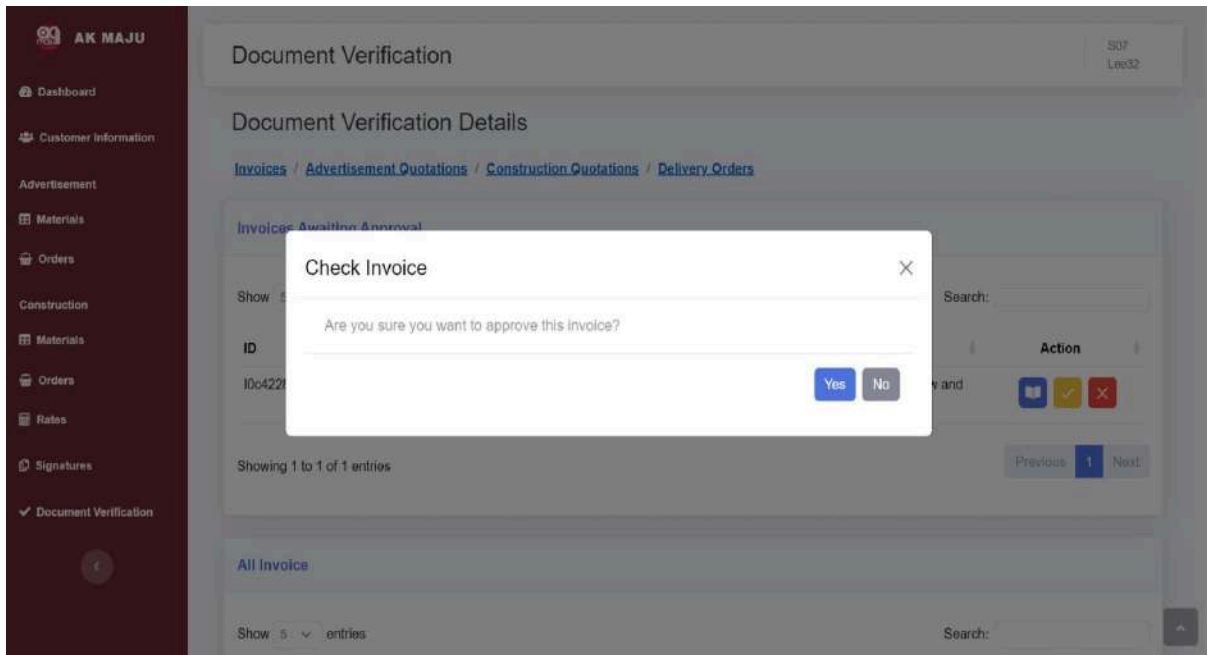


Figure 10.109: Staff checking invoice

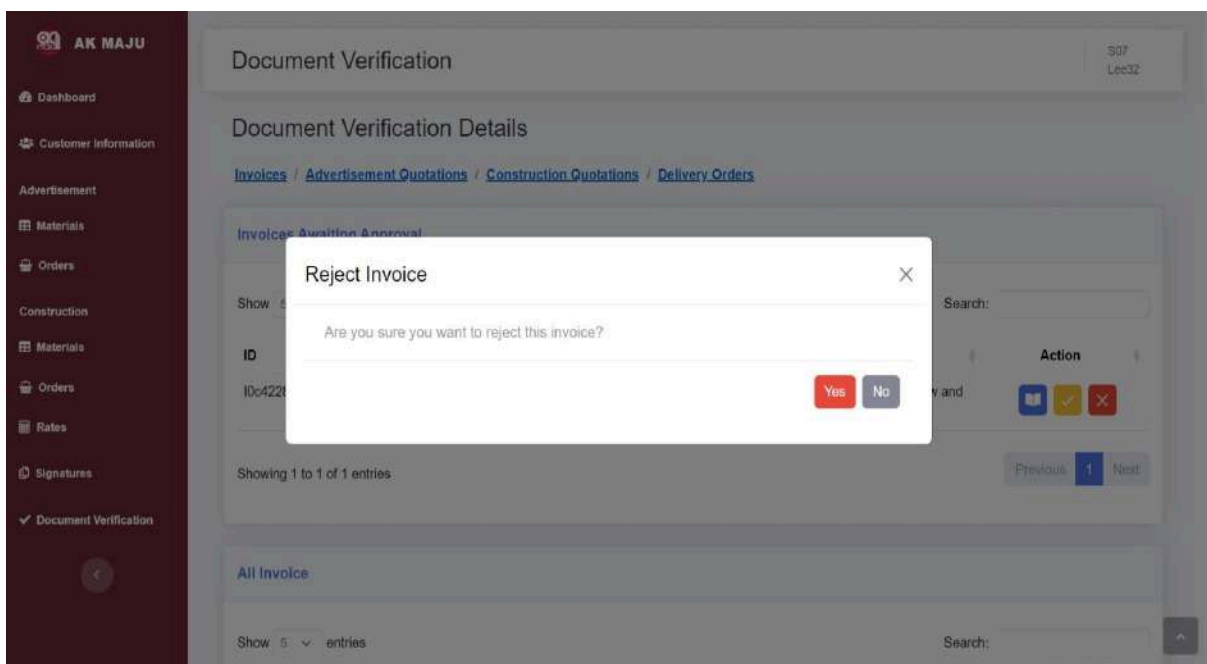


Figure 10.110: Staff rejecting invoice

2.11 Alpha and Beta Testing Reports

Alpha Testing Report

1=Very Poor

2=Poor

3=Moderate

4=Good

5=Very Good

(Insert 'X' in the relevant box)

Requirement	1	2	3	4	5
Login page can function					X
Reset password can function					X
Staff dashboard can view					X
Admin dashboard can view				X	
Monthly report can download and email					X
Low stock alert can function				X	
Customer information can view for staff					X
Customer information can view and export for admin					X
Manage user page can view					X
Add new user can function				X	
Edit user and delete user can function					X
Restore user can function					X
Manage advertisement material type can function				X	
Material advertisement material history can view					X
Add new advertisement material can function					X
Edit and delete advertisement material can function					X
Restore advertisement material can function					X
Manage construction material type can function				X	

Add new construction material can function					X
Edit and delete construction material can function					X
Restore construction material can function					X
Zone and Order rate can view					X
Zone and Order rate can import				X	
Advertisement Order main page can view			X		
Advertisement Order main page can function				X	
Add Advertisement Order can function				X	
Edit Advertisement Order can function					X
Delete and Complete Advertisement Order can function					X
Advertisement Order Details page can view (for Cancelled or Completed Order)					X
Generate advertisement documentation can function					X
Advertisement documentation can view and email					X
Construction Order main page can view			X		
Construction Order main page can function				X	
Add Construction Order can function					X
Edit Construction Order can function					X
Delete and Complete Construction Order can function					X
Construction Order Details page can view (for Cancelled or Completed Order)					X
Generate construction quotation can function					X
Construction quotation can view and email					X
Document in Document Verification page can be view				X	
Document in Document Verification page can be approve					X
Document in Document Verification page can be reject					X
Advertisement Invoice in Document Verification page can be check					X

Signature can be upload, view, delete and restore					X
---	--	--	--	--	---

I, hereby GOH JIALE, one of the members of group Algotechies confirm that the AK Maju Business Management System developed by our team has fulfilled the minimum requirements function of the system that was requested by the client which is Encik Azam (CEO AK Maju).

Signature,

Date



3/2/2024

(GOH JIALE)

2.12 UAT Reports

User Acceptance Test (UAT) Report

1=Very Poor

2=Poor

3=Moderate

4=Good

5=Very Good

(Insert 'X' in the relevant box)

User Requirement	1	2	3	4	5
Login page can function					X
Cost and price can be auto calculated in advertisement order page					X
Cost can be auto calculated in construction order page					X
Staff dashboard can view					X
Admin dashboard can view				X	
Monthly report can download and email					X
Low stock alert can function				X	
Customer information can view and export for admin					X
Manage user page can function					X
Manage advertisement material can function				X	
Material advertisement material history can view					X
Manage construction civil material can function					X
Manage construction electric material can function					X
Zone and Order rate can view					X
Zone and Order rate can import				X	
Advertisement Order main page can view all orders			X		
Add Advertisement Order can function				X	
Edit Advertisement Order can function					X

Delete and Complete Advertisement Order can function					X
Advertisement Order Details page can view (for Cancelled or Completed Order)					X
Can auto generate advertisement documentation					X
Advertisement documentation can view and email to others such as customer and manager					X
Construction Order main page can view all orders			X		
Add Construction Order can function				X	
Edit Construction Order can function					X
Delete and Complete Construction Order can function					X
Construction Order Details page can view (for Cancelled or Completed Order)					X
Can auto generate construction quotation					X
Construction quotation can view and email to others such as customer and manager					X
Can approve and reject document in Document Verification page				X	
Signature can be upload, view, delete and restore					X
Auto upload signature to documentation can function					X

I, hereby Tang Yan Qing, agree that the AK Maju Business Management System developed by our team has fulfilled the minimum requirements function of the system that was requested by the client which is Encik Azam (CEO AK Maju).

Signature,



(TANG YAN QING)

Date

3/2/2024

2.13 Gantt Chart

Algotechies

1. Goh Jiale
2. Ong Yi Yan
3. Tang Yan Qing

TASK	ASSIGNED TO	STATUS	START	END
1. Requirement Gathering and Analysis (1)				
1.1 Gather requirement	Goh, Ong, Tang	COMPLETED	18-Oct-2023	29-Oct-2023
1.1.1 Prepare interview questions	Goh, Ong, Tang	COMPLETED	18-Oct-2023	20-Oct-2023
1.1.2 Interview industry (day)	Goh, Ong, Tang	COMPLETED	24-Oct-2023	24-Oct-2023
1.2 Analyse requirements	Goh, Ong, Tang	COMPLETED	24-Oct-2023	29-Oct-2023
1.2.1 Discussion (Flowchart)	Goh, Ong, Tang	COMPLETED	24-Oct-2023	24-Oct-2023
1.2.2 Prepare flowchart (AS-IS system)	Goh	COMPLETED	24-Oct-2023	24-Oct-2023
1.2.3 Discussion (Use Case Diagram)	Goh, Ong, Tang	COMPLETED	27-Oct-2023	27-Oct-2023
1.2.4 Prepare use case diagram (AS-IS System)	Tang	COMPLETED	27-Oct-2023	29-Oct-2023
2. Project Planning				
2.1 Discussion (Proposal)	Goh, Ong, Tang	COMPLETED	29-Oct-2023	29-Oct-2023
2.1.1 Define project scopes and objectives	Goh, Ong, Tang	COMPLETED	29-Oct-2023	29-Oct-2023
2.1.2 Assign tasks	Goh	COMPLETED	29-Oct-2023	29-Oct-2023
2.2 Prepare proposal	Goh, Ong, Tang	COMPLETED	31-Oct-2023	7-Nov-2023
2.2.1 Methods for Information Gathering	Ong	COMPLETED	4-Nov-2023	7-Nov-2023
2.2.2 Introduction	Ong	COMPLETED	4-Nov-2023	7-Nov-2023
2.2.3 Organizational Background	Ong	COMPLETED	4-Nov-2023	7-Nov-2023
2.2.4 The Case Study	Ong	COMPLETED	4-Nov-2023	7-Nov-2023
2.2.5 Problem Statement	Tang	COMPLETED	2-Nov-2023	7-Nov-2023
2.2.6 Proposed Solution	Tang	COMPLETED	2-Nov-2023	7-Nov-2023
2.2.7 Objectives	Tang	COMPLETED	2-Nov-2023	7-Nov-2023
2.2.8 Scope of the Project	Tang	COMPLETED	2-Nov-2023	7-Nov-2023
2.2.9 Number Resources	Goh	COMPLETED	3-Nov-2023	7-Nov-2023
2.2.10 Work Breakdown Structure (WBS)	Goh	COMPLETED	4-Nov-2023	7-Nov-2023
2.2.11 PERT Chart	Goh	COMPLETED	4-Nov-2023	7-Nov-2023
2.2.12 Gantt Chart	Ong	COMPLETED	6-Nov-2023	7-Nov-2023
2.2.13 Conclusion	Goh	COMPLETED	6-Nov-2023	7-Nov-2023
2.2.14 References	Goh, Ong, Tang	COMPLETED	1-Nov-2023	7-Nov-2023
3. System Design				
3.1 Prepare use case diagram (To-be System)	Tang	COMPLETED	8-Nov-2023	10-Nov-2023
3.2 Prepare flowchart (To-be system)	Ong	COMPLETED	9-Nov-2023	11-Nov-2023
3.3 Assign modules	Goh	COMPLETED	17-Nov-2023	11-Nov-2023
3.4 Identify use cases	Goh, Ong, Tang	COMPLETED	12-Nov-2023	14-Nov-2023
3.5 Prepare SRS	Goh, Ong, Tang	COMPLETED	14-Nov-2023	24-Nov-2023
3.5.1 Authentication Module	Ong	COMPLETED	14-Nov-2023	24-Nov-2023
3.5.2 Dashboard Module	Tang	COMPLETED	14-Nov-2023	24-Nov-2023
3.5.3 Customer Management Module	Goh	COMPLETED	14-Nov-2023	24-Nov-2023
3.5.4 Material Management Module	Ong	COMPLETED	14-Nov-2023	24-Nov-2023
3.5.5 Order Module	Goh	COMPLETED	14-Nov-2023	24-Nov-2023
3.5.6 Documentation Module	Tang	COMPLETED	14-Nov-2023	24-Nov-2023
3.6 Prepare SDD	Goh, Ong, Tang	COMPLETED	20-Nov-2023	20-Dec-2023
3.6.1 System Architectural Design	Goh	COMPLETED	25-Nov-2023	18-Dec-2023
3.6.2 Architecture Diagram	Tang	COMPLETED	25-Nov-2023	18-Dec-2023
3.6.3 Complete Package Diagram	Goh	COMPLETED	25-Nov-2023	18-Dec-2023
3.6.4 Data Dictionary	Ong	COMPLETED	25-Nov-2023	18-Dec-2023
3.6.5 Data Dictionary	Ong	COMPLETED	25-Nov-2023	20-Dec-2023
4. System Development				
4.1 Authentication Module	Ong	COMPLETED	20-Dec-2023	11-Jan-2024
4.2 Dashboard	Tang	COMPLETED	20-Dec-2023	13-Jan-2024
4.3 Order Module	Ong	COMPLETED	20-Dec-2023	15-Jan-2024
4.4 Material Management Module	Goh	COMPLETED	20-Dec-2023	15-Jan-2024
4.5 Documentation Module	Tang	COMPLETED	20-Dec-2023	15-Jan-2024
4.7 Customer Management Module	Goh	COMPLETED	20-Dec-2023	15-Jan-2024
5. System Testing				
5.1 Prepare STD	Goh, Ong, Tang	COMPLETED	15-Jan-2024	15-Jan-2024
5.1.1 Requirement-based Testing	Goh, Ong, Tang	COMPLETED	15-Jan-2024	15-Jan-2024
5.1.2 Black box Testing	Goh, Ong, Tang	COMPLETED	14-Jan-2024	15-Jan-2024
5.1.3 White box Testing	Goh, Ong, Tang	COMPLETED	14-Jan-2024	15-Jan-2024
5.2 Website Hosting	Goh, Ong, Tang	COMPLETED	15-Jan-2023	15-Jan-2023
5.4 User Acceptance Testing	Goh, Ong, Tang	COMPLETED	17-Jan-2023	17-Jan-2023
7. Presentation				
7.1 Prepare Slide	Goh, Ong, Tang	COMPLETED	18-Jan-2023	17-Jan-2023
7.2 Industry Day	Goh, Ong, Tang	COMPLETED	18-Jan-2023	18-Jan-2023

Project start: Wed, 10/18/2023
Total week: 14

