

MODAPTO [101091996]: Modular Manufacturing and Distributed Control via Interoperable Digital Twins



10.1. MODAPTO Notification Center Manual

2025-08-11

Introduction

The notification system serves as a critical communication infrastructure that ensures all stakeholders receive relevant, role-based information precisely when needed, enabling rapid response to operational events and maintaining seamless coordination across distributed manufacturing modules. In today's complex manufacturing environments, where multiple production cells, operators, and systems must work in synchronized harmony, a sophisticated notification system transforms from a simple messaging tool into an essential operational enabler that drives efficiency, quality, and responsiveness.

The MODAPTO notification system goes beyond traditional alert mechanisms by implementing intelligent, role-based information distribution that adapts to the specific needs and responsibilities of each user within the manufacturing ecosystem. This sophisticated approach ensures that production operators receive immediate alerts about equipment status changes, maintenance teams are notified of predictive maintenance requirements, and managers obtain real-time updates on production milestones and exceptions. By leveraging Digital Twin technology and modular architecture principles, the notification system creates a responsive communication network that supports both immediate operational needs and strategic decision-making processes.

Purpose

The purpose of this Notification System training module is to equip users and trainers with comprehensive knowledge and practical skills needed to effectively utilize and teach the notification capabilities within the MODAPTO platform. This training addresses the critical need for structured, role-appropriate information management in modular manufacturing environments, where timely communication has a direct impact on operational efficiency, quality outcomes, and overall system performance. Understanding how to configure, manage, and respond to notifications is essential for maintaining the agility and responsiveness that characterize successful modular manufacturing implementations.

For administrators and trainers, this module provides the foundational knowledge required to configure notification mappings that align with organizational roles and responsibilities, ensuring that information flows efficiently to the right people at the right time. The training emphasizes practical implementation strategies that enable organizations to balance comprehensive monitoring with focused, actionable alerts, driving meaningful responses rather than creating information overload.

Target Audience

This training module serves multiple audience segments within manufacturing organizations:

Primary Users: System administrators responsible for configuring notification mappings and managing the overall notification infrastructure. These individuals need deep

understanding of role-based access control and information routing principles to ensure effective communication across the organization.

Production Team Members: Operators, supervisors, and managers who rely on notifications to stay informed about production events, task assignments, and system status changes. They require practical skills in viewing, managing, and responding to notifications within their daily workflows.

Maintenance and Quality Personnel: Technical staff who use notifications to coordinate maintenance activities, respond to quality alerts, and manage corrective actions across distributed production cells.

Training Instructors: Educators and corporate trainers who will use this material to onboard new users and maintain organizational competency in notification system usage.

Learning outcomes

After completing this module, participants will be able to:

- **Map system notifications to user roles as an administrator**, ensuring appropriate information distribution based on organizational responsibilities and access requirements
- **View and manage unread notifications efficiently**, maintaining awareness of important updates without becoming overwhelmed by information volume
- **Delete notifications that are no longer needed**, maintaining a clean and relevant notification workspace
- **Create new Tasks from system notifications**, transforming alerts into actionable work items with clear ownership and tracking
- **Update the status of Tasks linked to notifications**, maintaining real-time visibility into response actions and resolution progress
- **Add comments to Tasks directly from notifications**, facilitating collaborative problem-solving and knowledge sharing within the notification context

These capabilities enable users to transform the notification system from a passive information channel into an active collaboration and coordination platform that drives operational excellence within the MODAPTO framework. By mastering these skills, users contribute to creating a responsive, intelligent manufacturing environment where information flows seamlessly support both immediate operational needs and continuous improvement initiatives.

Requirements

There are no prior requirements needed to complete this training.

10.1 Notification Center Manual

The MODAPTO notification system helps users stay up to date with relevant information based on their role and pilot. When a new notification is available, it will appear as a pop-up in the interface. This ensures that users receive important updates at the right time, without needing to search for them.

10.1.1. Notification Mapping Page

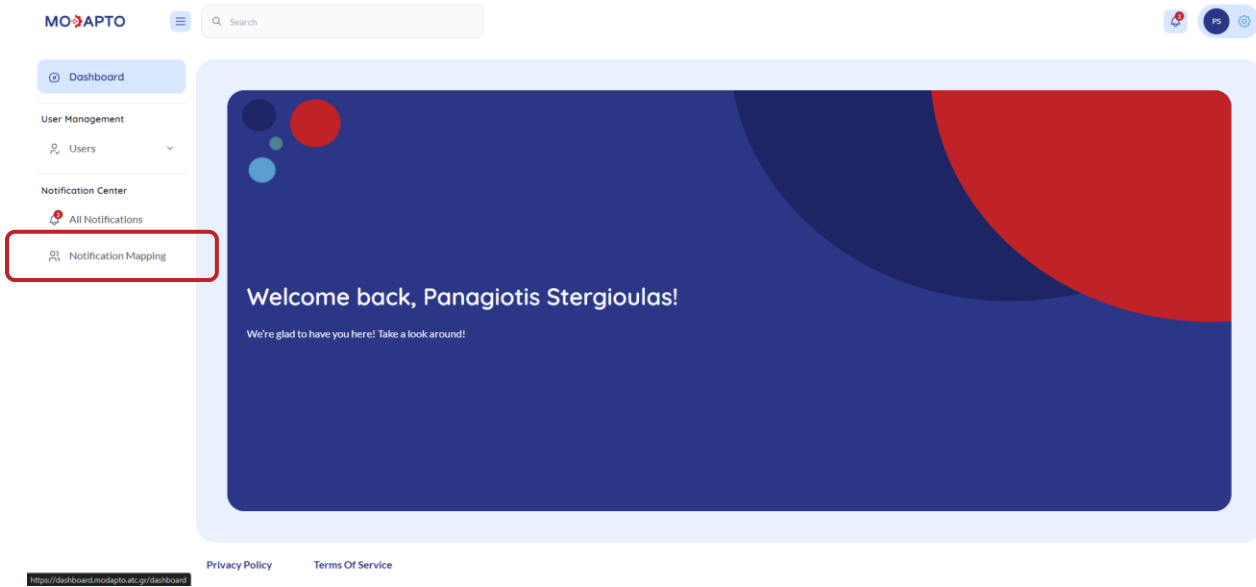


Figure 1

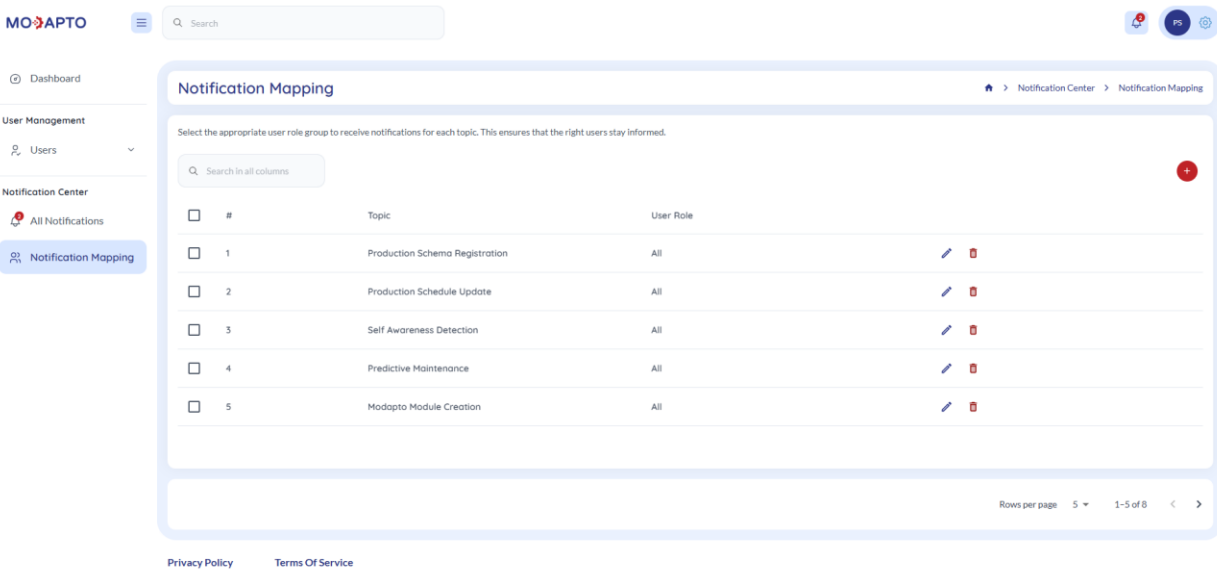


Figure 2

Users with administrative permission can access the **Notification Mapping** page by clicking the corresponding option in the sidebar (see Figure 1). This page allows administrators to manage how notification topics are associated with user roles (Figure 2).

On this page, the following actions are available:

- **Create a new notification mapping** by clicking the red **plus** icon in the top-right corner (see Figure 3). This allows the user to link a notification topic to a specific role.

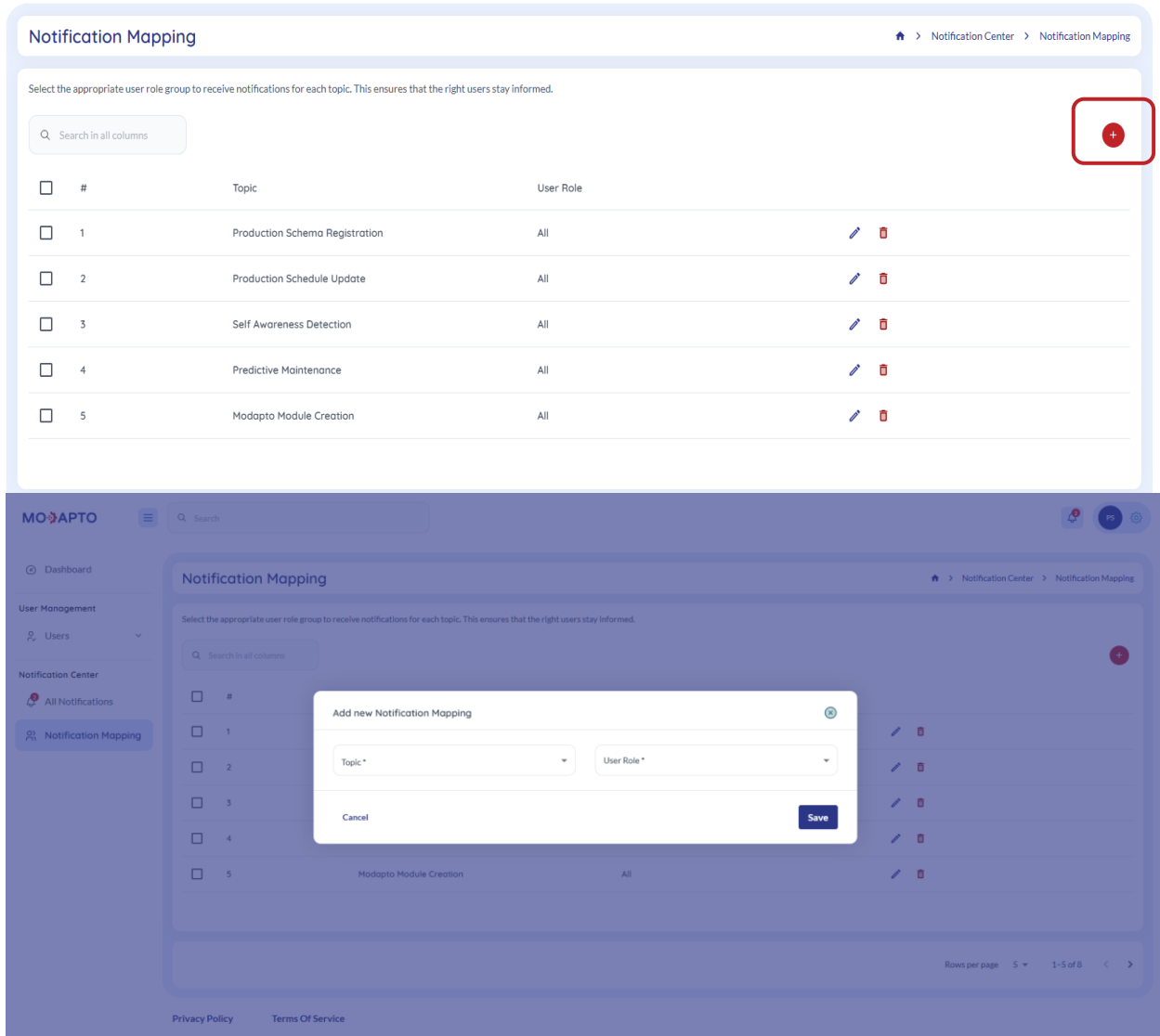


Figure 3

- **Edit an existing mapping** by clicking the **Edit** button next to the corresponding entry (see Figure 4).

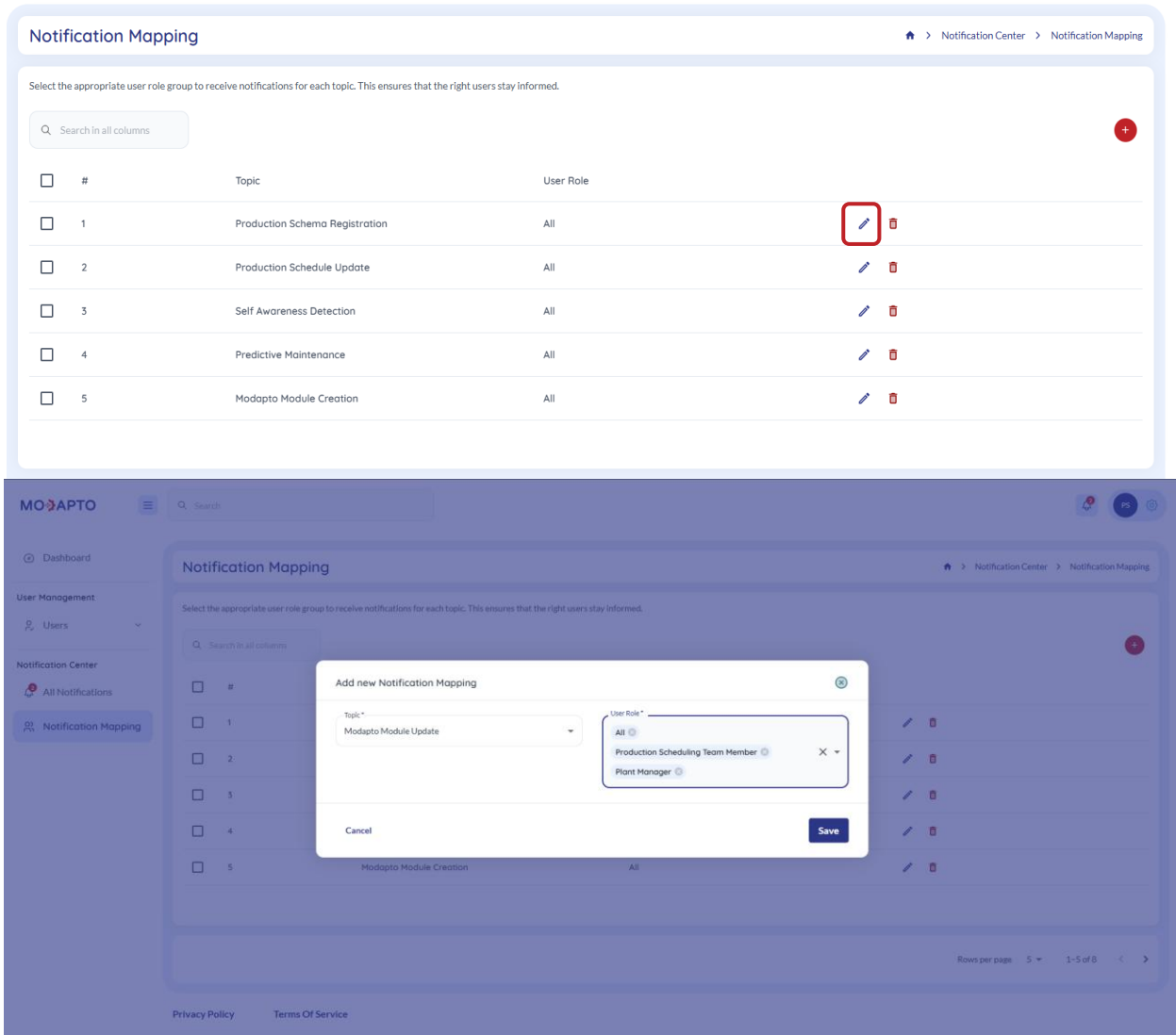


Figure 4

- Delete a mapping permanently by clicking the Delete button (see Figure 5).

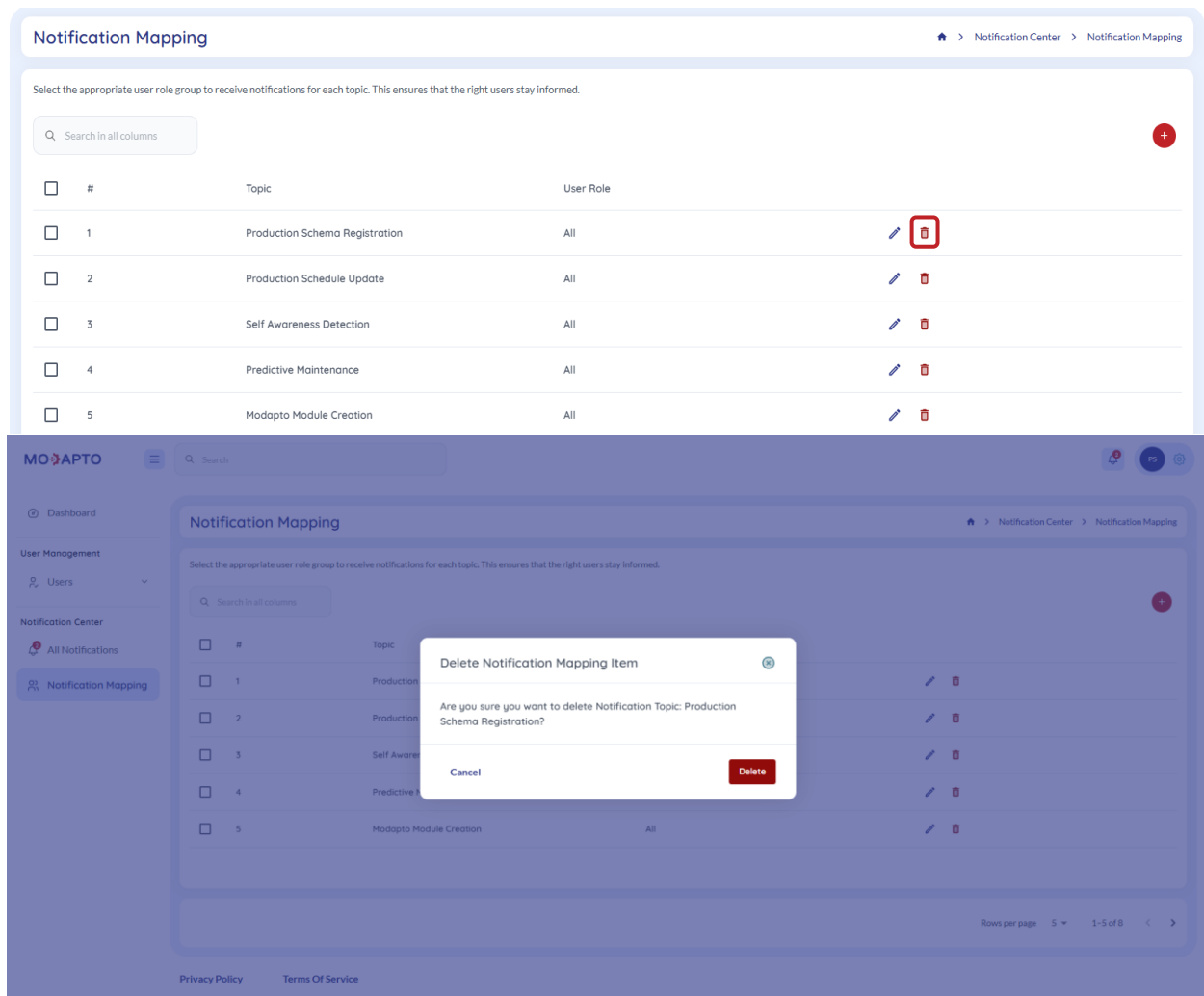


Figure 5

These tools help ensure that notifications are delivered to the appropriate users based on their roles within the platform.

10.1.2 New Notifications

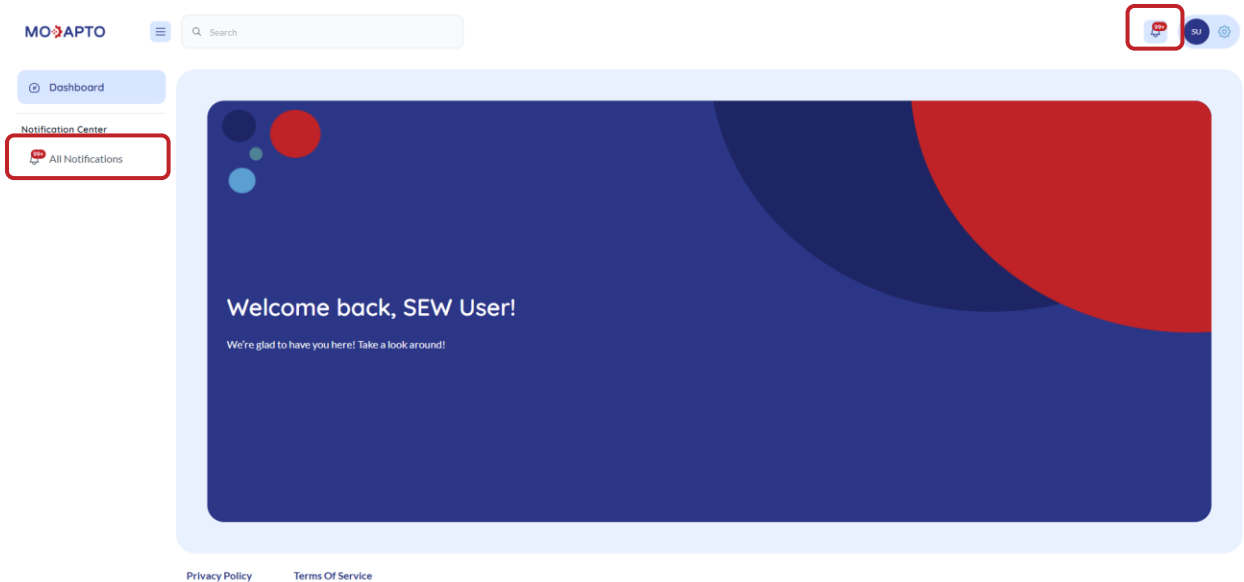


Figure 6

Upon logging into the application, the user can view the number of unread notifications in two locations:

- At the top-right corner of the page on the bell icon (Figure 6)
- In the sidebar on the left side of the page (Figure 6)

These indicators provide a clear overview of new notifications immediately upon accessing the platform.

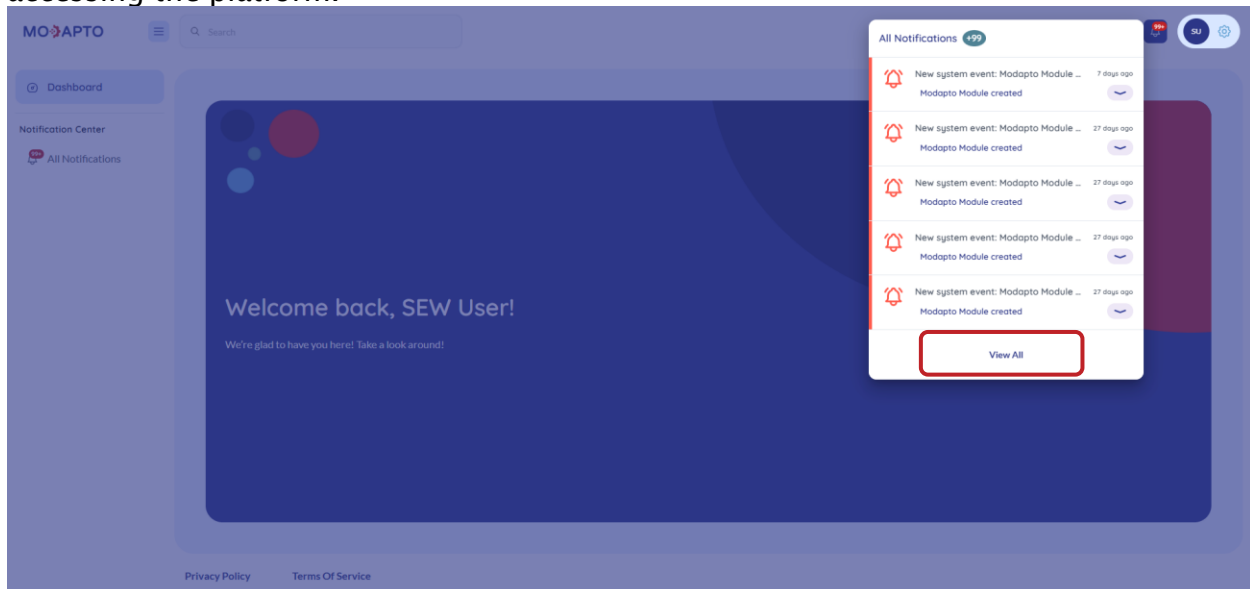


Figure 7

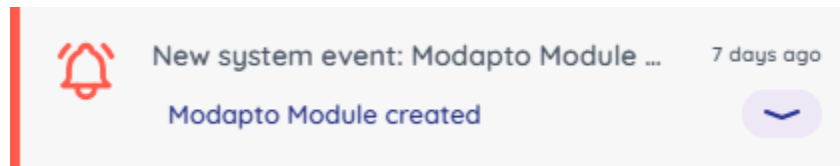


Figure 8

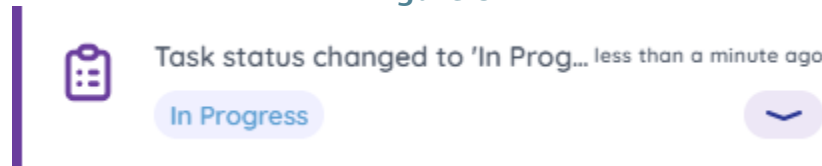


Figure 9

If the user clicks on the notification icon in the top-right corner, a pop-up will appear displaying the five most recent notifications (see Figure 7). These notifications provide a brief overview of each item. The user can identify whether a notification is an Event (see Figure 8) or a Task (see Figure 9) notification, along with the description, message status, priority, and the time the notification was created.

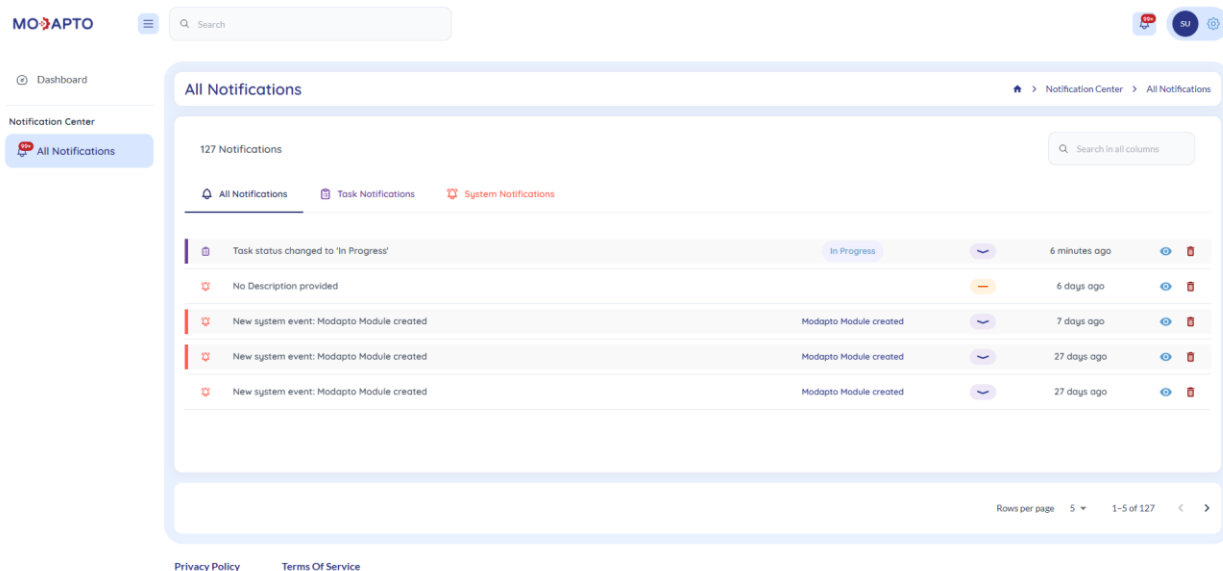


Figure 10

In the pop-up, the user can also see a **“View All”** button (see Figure 7). Clicking this button navigates the user to the Notification List page (see Figure 10), where all notifications can be viewed, searched, and deleted. Alternatively, the user can access the Notification List page by clicking the **“All Notifications”** button located in the sidebar (see Figure 11).

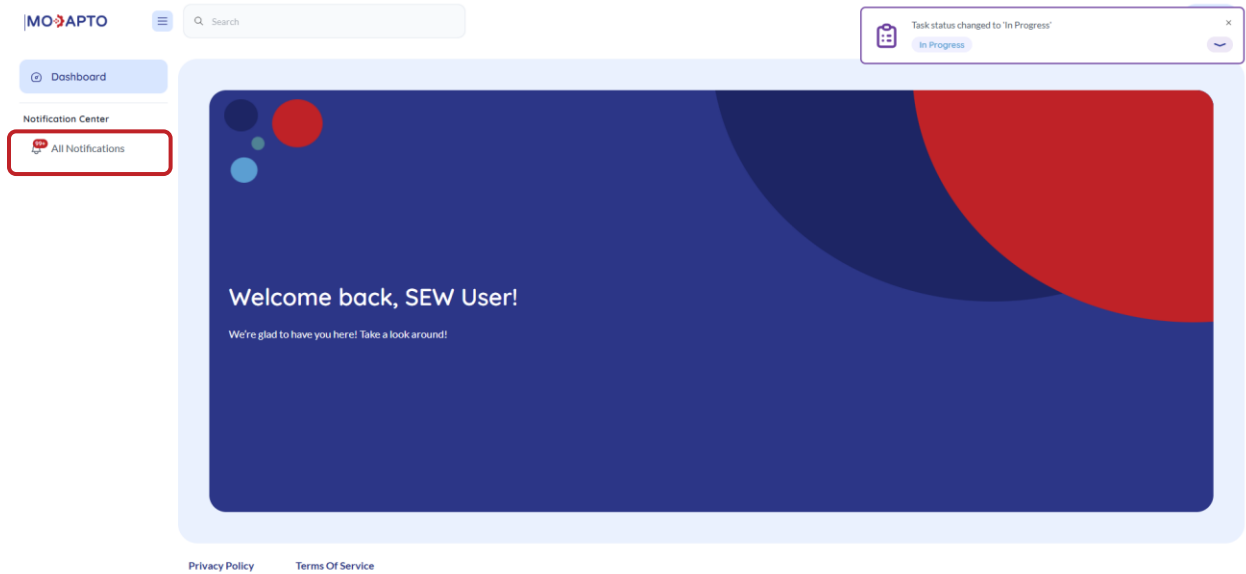


Figure 11

Whenever a new notification is created for the logged-in user, a pop-up is immediately displayed to the user (see Figure 11). This pop-up follows the same format as the items shown in Figure 7, providing a quick overview of the notification.

10.1.3 Notifications List

On this page, the user can view a data table containing all their notifications (see Figure 12).

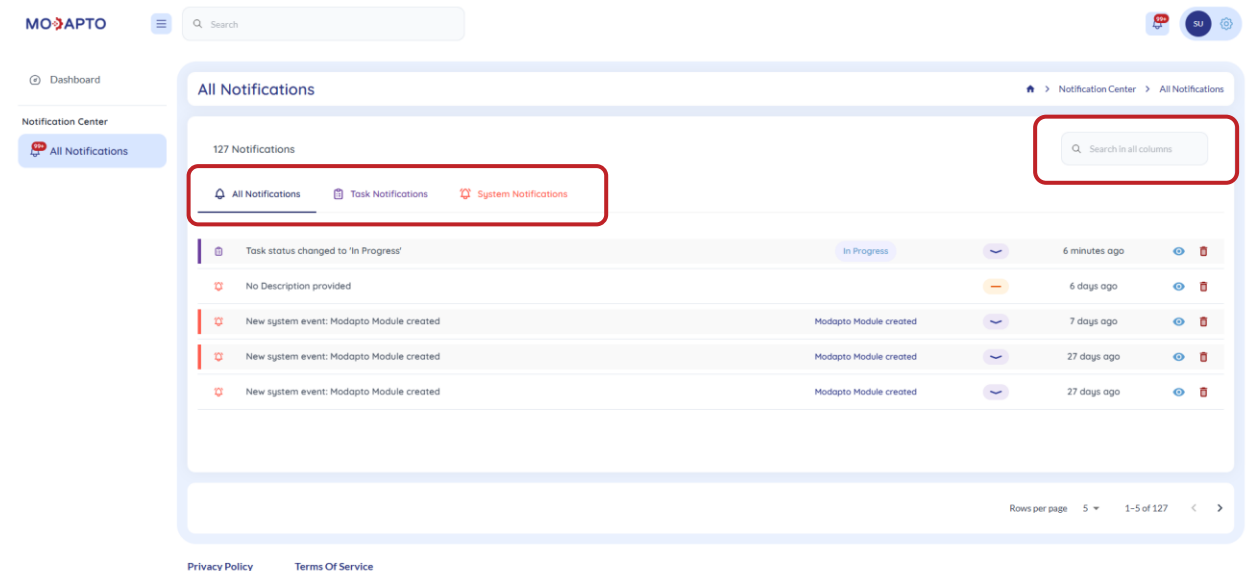


Figure 12

At the top of the table, there are three tabs that allow the user to filter the notifications by type:

- **All Notifications:** Displays every notification, regardless of type.
- **Task Notifications:** Shows only Task-related notifications.
- **System Notifications:** Shows only System-related notifications.

These tabs help the user quickly locate and focus on specific types of notifications as needed.

The user can also search for specific notifications by entering a keyword into the search field (see Figure 12). This allows for quick filtering based on the content of the notification, making it easier to locate relevant information.

10.1.4 Delete Notification

On the right side of the table, each notification includes a delete icon. When the user clicks this icon, a prompt appears asking for confirmation to delete the notification (see Figure 13). If the user confirms by clicking the **Delete** button, the notification will be permanently removed from the list.

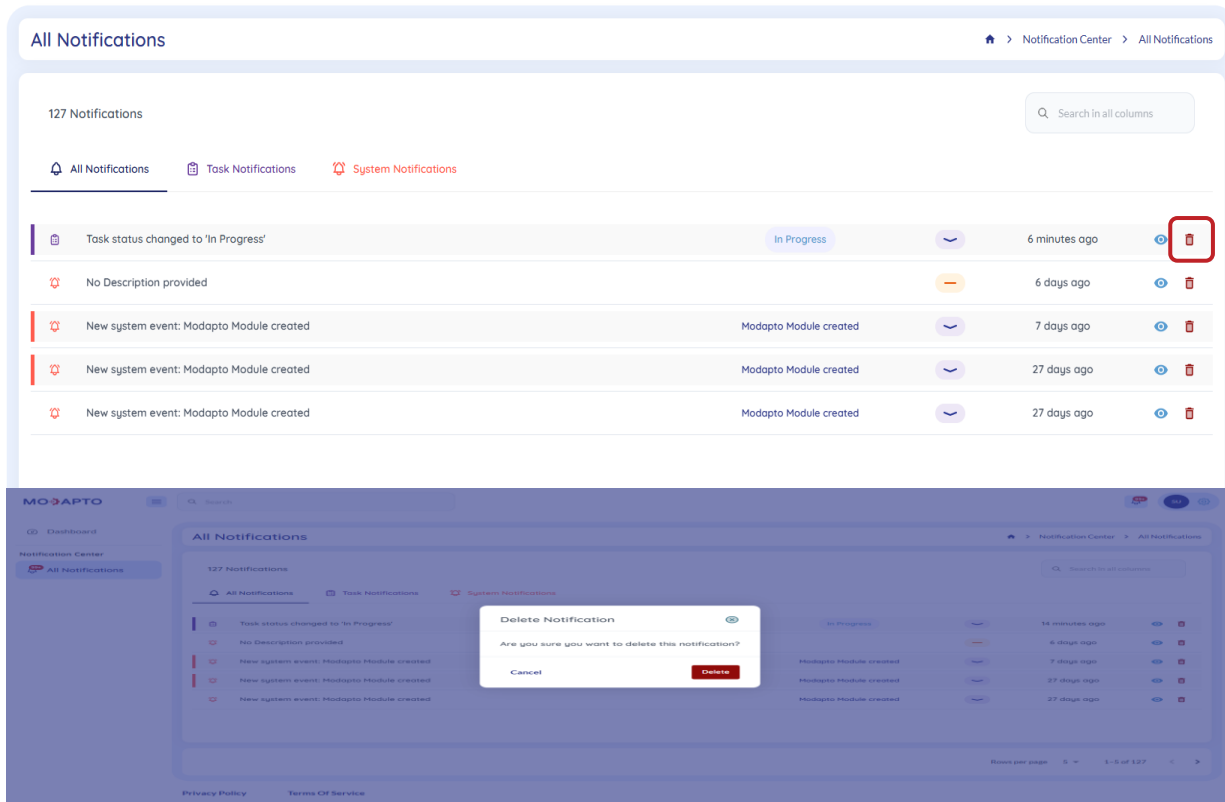


Figure 13

1 10.1.5 System Notification Details Page

On the right side of the table, each notification includes a **View** icon. Clicking this icon navigates the user to the **Notification Details** page, where more information about the

selected notification is displayed. The user can also access the Notification Details page by clicking on a pop-up notification when it appears or any of the 5 most recent notifications shown in Figure 7.

When the user navigates to a System Notification details page, all relevant information about the event is displayed (see Figure 14).

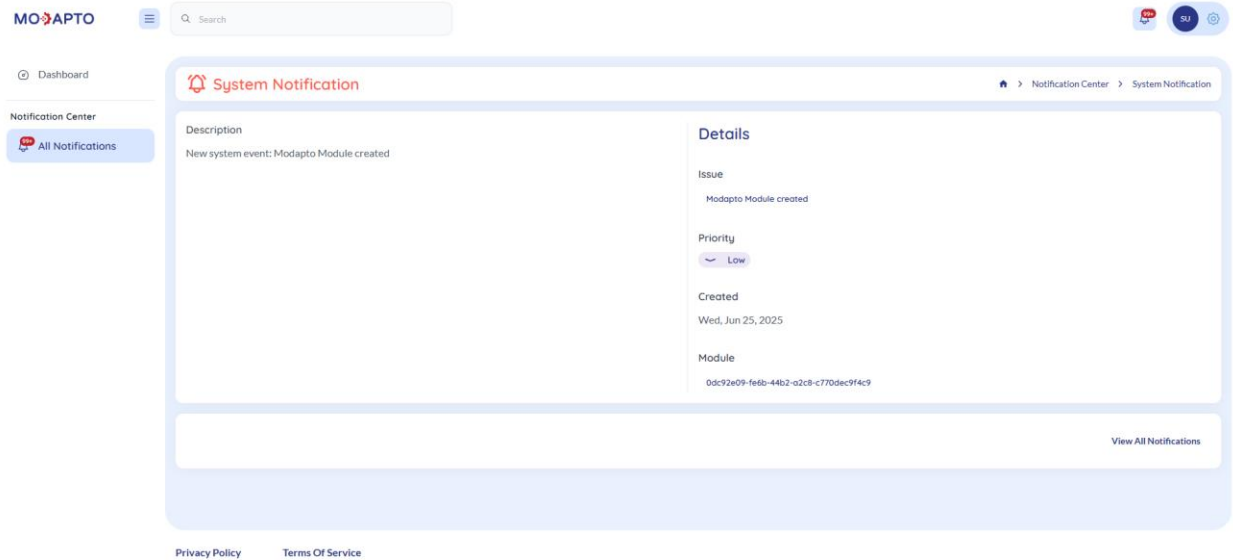


Figure 14

If the user has the appropriate permissions, they can also assign the issue to another user and provide a description (see Figure 15). This allows for clear delegation and documentation of the event.

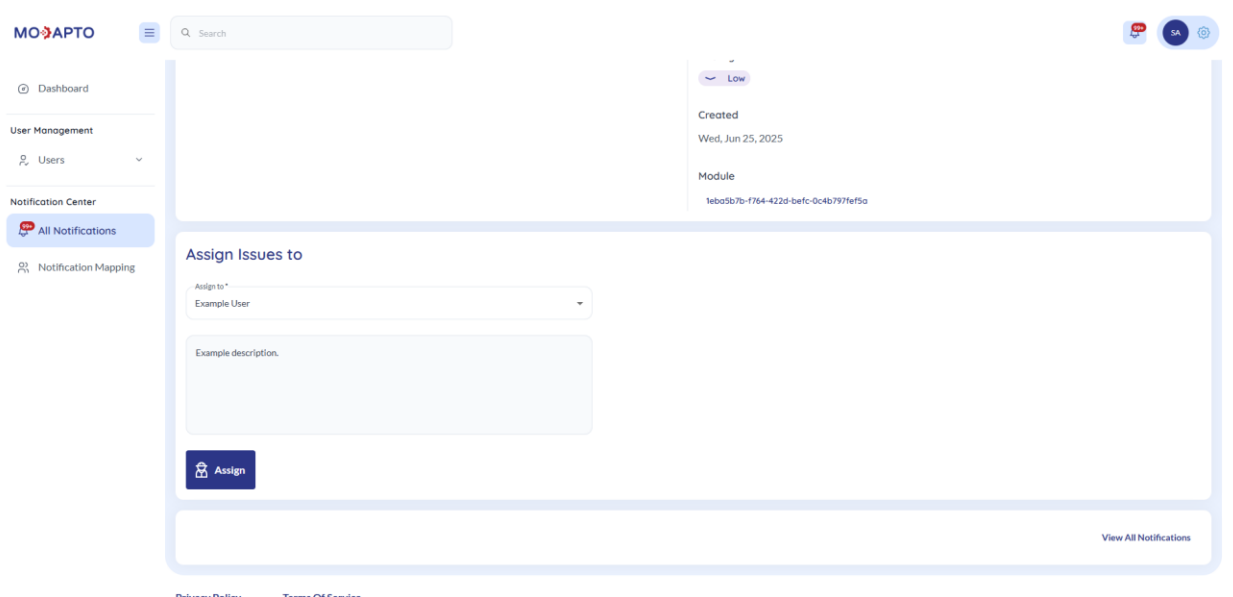


Figure 15

2 10.1.6 Task Notification Details Page

When the user navigates to a Task Notification details page, the full task information is displayed. The task details appear on the right side of the page, while the description and timeline are shown on the left side (see Figure 16).

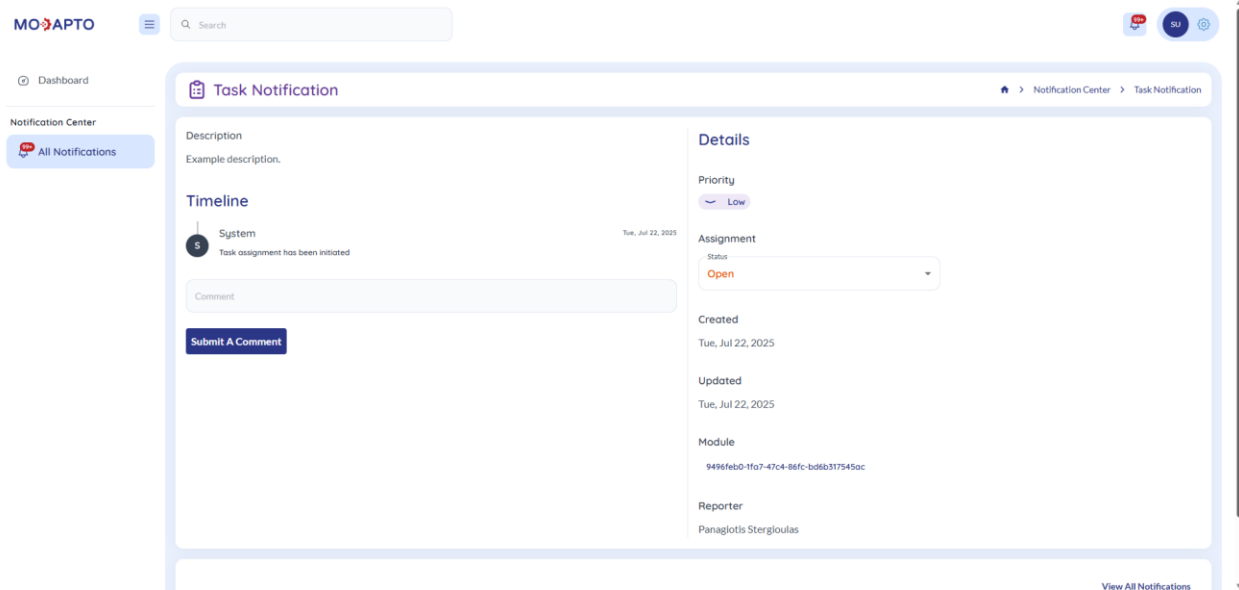


Figure 16

On this page, the user can update the status (see Figure 17) of the task and add comments using the comment section (see Figure 18). This allows for ongoing communication and tracking of progress directly within the task.

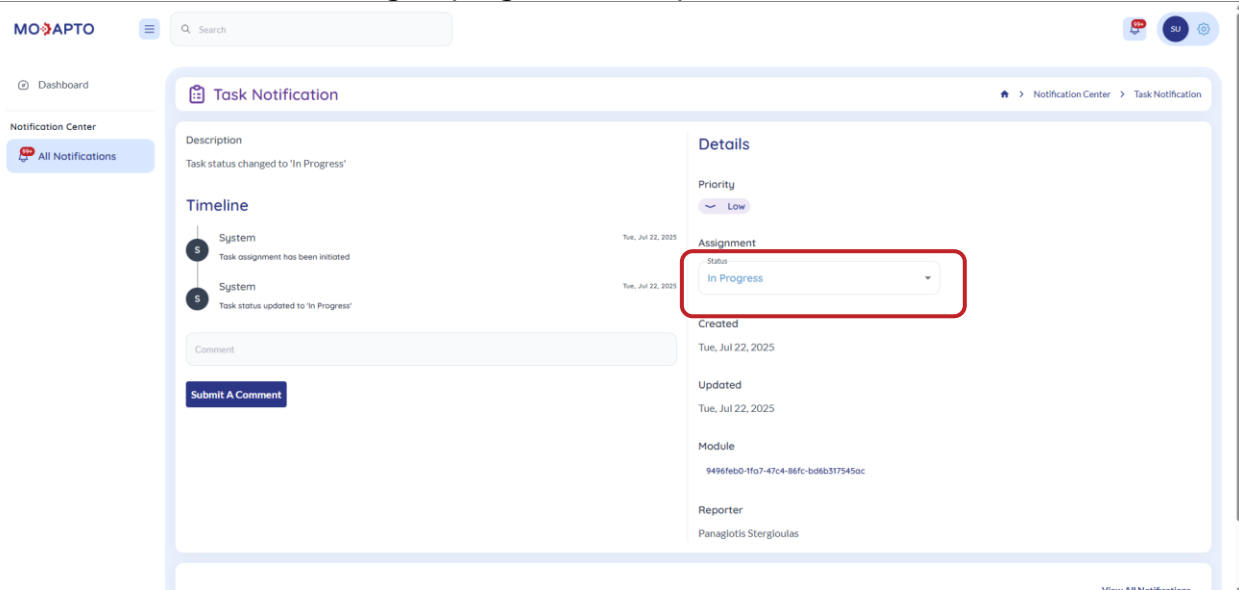


Figure 17

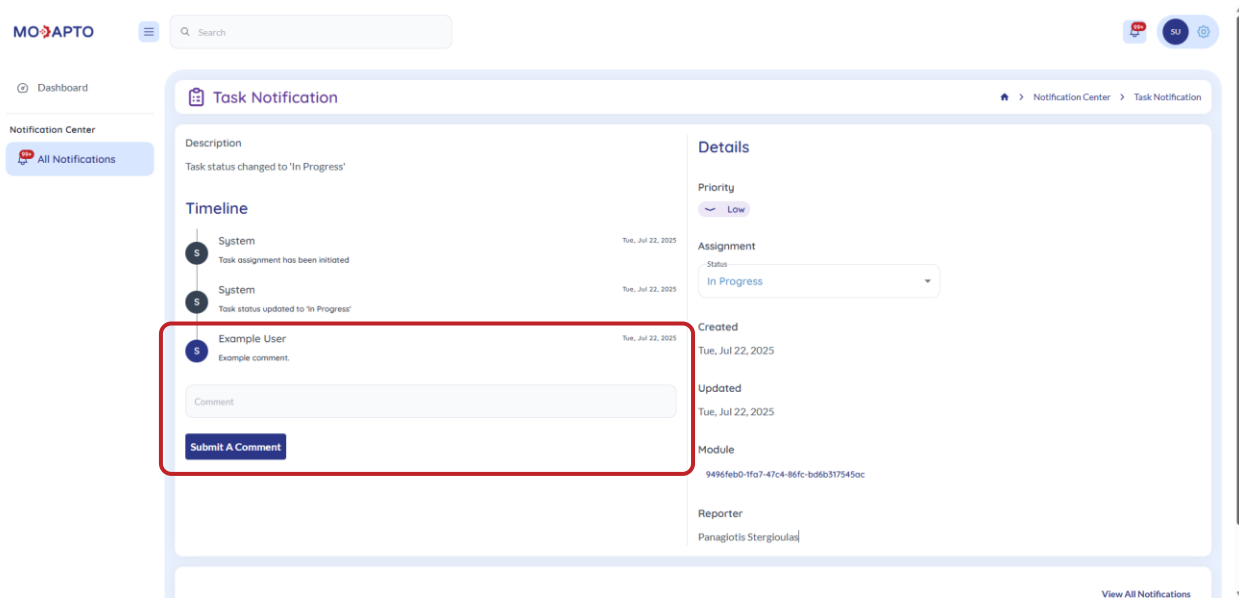


Figure 18

3 Quiz: Modapto Notification System

Question 1 (Multiple Choice)

Which of the following actions can administrators perform on the Notification Mapping page?

- A) Create new notification mappings
- B) Edit existing mappings
- C) Delete mappings permanently
- D) All of the above

Correct Answer: D

Question 2 (True/False)

Users can view their unread notifications count in two locations: the bell icon at the top-right corner and in the sidebar.

Correct Answer: True

Question 3 (Single Choice)

What are the three filter tabs available on the Notifications List page?

- A) Read, Unread, Archived
- B) All Notifications, Task Notifications, System Notifications
- C) High Priority, Medium Priority, Low Priority
- D) Today, This Week, This Month

Correct Answer: B

Question 4 (Fill in the Blanks)

When a user clicks on a notification's _____ icon, they navigate to the Notification Details page, while clicking the _____ icon permanently removes the notification.

Correct Answers: View, Delete

Question 5 (Multiple Choice)

On the Task Notification Details page, users can:

- A) Update the task status
- B) Add comments to the task
- C) View the task timeline
- D) All of the above

Correct Answer: D

Question 6 (True/False)

Only administrators can assign system notification issues to other users.

Correct Answer: False (Users with appropriate permissions can assign issues)

Question 7 (Single Choice)

How many recent notifications are displayed in the pop-up when clicking the bell icon?

- A) 3
- B) 5
- C) 10
- D) All unread notifications

Correct Answer: B

Question 8 (Fill in the Blanks)

The Notification Mapping page allows administrators to link notification _____ to specific user _____.

Correct Answers: topics, roles

4 Frequently Asked Questions (FAQs)

Q1: How do I know when I have new notifications?

A: New notifications appear in two ways: 1) As an immediate pop-up when created, and 2) As a numbered badge on both the bell icon (top-right) and the "All Notifications" option in the sidebar.

Q2: Can I recover a deleted notification?

A: No, once you confirm deletion by clicking the Delete button, the notification is permanently removed from the system and cannot be recovered.

Q3: What's the difference between System Notifications and Task Notifications?



A: System Notifications are event-based alerts about system activities (like module creation), while Task Notifications relate to specific assigned tasks with statuses that can be updated and commented on.

Q4: Do I need special permissions to access the Notification Mapping page?

A: Yes, only users with administrative permissions can access the Notification Mapping page to manage how notification topics are distributed to different user roles.

Q5: Can I search for specific notifications if I have many?

A: Yes, you can use the search field at the top of the Notifications List page to filter notifications by keywords, making it easier to find specific information.

Q6: What happens if I miss a notification pop-up?

A: Don't worry - all notifications remain accessible through the bell icon (showing the 5 most recent) or the full Notifications List page where you can view all past notifications until you delete them.

Q7: Can I change who receives certain types of notifications?

A: If you have administrative permissions, yes. You can modify notification mappings to change which user roles receive specific notification topics through the Notification Mapping page.

Q8: Is it possible to add comments to System Notifications like with Task Notifications?

A: No, System Notifications only allow viewing details and potentially assigning to users (with appropriate permissions). Only Task Notifications support adding comments and status updates.