

Name: Laurente, John Rhuel C.

Date: May 06, 2024

Application Name: Mabolo Dormitory System

## EVENTS DOCUMENTATION

### Sign In Form

Event Name	Control Owner	Control Event	Description
minimizeButton_Click	minimizeButton	Click	When the minimize button is clicked, minimizes the form to the taskbar.
closeButton_Click	closeButton	Click	When the close button is clicked, closes the form and releases resources.
emailTextBox_Enter	emailTextBox	Enter	Resets the text in emailTextBox and emailReview and changes the fore color, focus lined color and line color.
passwordTextBox_Enter	passwordTextBox	Enter	Resets the text in passwordTextBox and emailReview and changes the fore color, focus lined color and line color
logInButton_Click	logInButton	Click	Verify if all fields were not null and check if the account exists. If it exists, create a new main form and show it while hiding the SignIn form. Else, prompts the user that credentials are invalid.
viewBut_Click	viewBut	Click	Makes the new password characters visible in the input field. Then, hides the viewBut and make the hideViewBut visible.
hideViewBut_Click	hideViewBut	Click	Hides the new password characters behind masking characters. Then hides the hideViewBut and make the viewBut visible.
forgotPass_Click	forgotPass	Click	Validate if there is an email exists, if it is a valid email, and if it is the admin email. If valid, call the SendOtpCode function for process of resetting the password.

emailTextBox_TextChanged	emailTextBox	TextChanged	Check the email if it is valid. It checks every changed in text in the textbox.
--------------------------	--------------	-------------	---

## OTP Form

Event Name	Control Owner	Control Event	Description
closeViewButton_Click	closeViewButton	Click	Closes the OTP Form.
verifyViewButton_Click	verifyViewButton	Click	Retrieves the input OTP code of the users. Then validate if it is equal to the OTP code sent to the user email, if it is valid, creates a new ResetPassword form passing the user email, and set its location and show it.
UpdateForm_MouseDown	UpdateForm	MouseDown	Stores the mouse position when the user clicks on the form.
UpdateForm_MouseMove	UpdateForm	MouseMove	If the mouse is down, moves the form along with the mouse cursor.
UpdateForm_MouseUp	UpdateForm	MouseUp	Resets the mouse state when the user releases the mouse button.

## Reset Password Form

Event Name	Control Owner	Control Event	Description
updatePassButton_Click	updatePassButton	Click	Validates the new password, if it is valid and matches the confirmatory password, then it will be reset using the function AdminPassReset, and prompts the user with the result of the update.
closeViewButton_Click	closeViewButton	Click	Closes the ResetPassword Form.
passwordText_MouseClick	passwordText	MouseClick	Changes the passwordText line color.
confirmPassword_MouseClick	confirmPassword	MouseClick	Changes the confirmPassword line color.

UpdateForm_MouseDown	UpdateForm	MouseDown	Stores the mouse position when the user clicks on the form.
UpdateForm_MouseMove	UpdateForm	MouseMove	If the mouse is down, moves the form along with the mouse cursor.
UpdateForm_MouseUp	UpdateForm	MouseUp	Resets the mouse state when the user releases the mouse button.
passwordText_TextChanged	passwordText	TextChanged	Check the password to see if it is valid. It checks every changed in text in the textbox passwordText.
confirmPassword_TextChanged	confirmPassword	TextChanged	Check the password to see if it is valid. It checks every changed in text in the textbox confirmPassword.

## Main Form

Event Name	Control Owner	Control Event	Description
minimizeButton_Click	minimizeButton	Click	When the minimize button is clicked, minimizes the form to the taskbar.
closeButton_Click	closeButton	Click	When the close button is clicked, closes the form and releases resources.
dormerButton_Click	dormerButton	Click	When the dormers button is clicked, loads the dormers tab content.
dashboardButton_Click	dashboardButton	Click	When the dashboard button is clicked, loads the dashboard content and updates information.
roomButton_Click	roomButton	Click	When the room button is clicked, validates if there were dormers and then loads the room tab content.
logoutButton_Click	logoutButton	Click	When the logout button is clicked, creates a new sign-in form, shows it, hides the current form, and releases resources.
eventButton_Click	eventButton	Click	When the event button is clicked, validates if there were dormers and then loads the event tab content.

paymentButton_Click	paymentButton	Click	When the payment button is clicked, validates if there were dormers and then loads the payments tab content.
settingsButton_Click	settingsButton	Click	When the settings button is clicked, loads the settings tab content, passing the user's email address.

### Dormers Tab Usercon

Event Name	Control Owner	Control Event	Description
dormerTableView_EditingControlShowing	dormerTableView (DataGridView)	EditingControlShowing	<ul style="list-style-type: none"> <li>This event fires whenever the editing control (dropdown menu) for the "Action" column becomes visible in "dormerTableView".</li> <li>Manages events for the combo box column in each row, attaching/detaching event handlers to prevent memory leaks.</li> </ul>
ComboBoxAction_SelectedIndexChanged	ComboBoxAction (Within DataGridView)	SelectedIndexChanged	<ul style="list-style-type: none"> <li>This event triggers whenever the user selects an option ("<i>Update</i>", "<i>View</i>", or "<i>Delete</i>") from the "Action" dropdown menu.</li> <li>It retrieves the selected index of the current row and performs the chosen action: <ul style="list-style-type: none"> <li><b>Update:</b> Opens an UpdateForm to modify user information.</li> <li><b>View:</b> Opens a ViewForm to display user details.</li> <li><b>Delete:</b> Prompts for confirmation before deleting the user and refreshes the table afterward.</li> </ul> </li> </ul>

dormerTableView_CellContentClick	dormerTableView	CellContentClick	This event is used just to ensure that whenever a row is click, then the corresponding row will be selected accordingly, either <i>checked</i> or <i>unchecked</i> in <b>column1</b> .
refreshButtton_Click	refreshButton	Click	Resets the UI elements (dropdown selection, search bar text), and retrieves all users from database and refreshes the table with the updated users.
viewCountCB_SelectedIndexChanged	viewCountCB	SelectedIndexChanged	Resets the search bar text, updates pagination number of pages, and refreshes the data table with the appropriate number of users per page.
userTypeCB_SelectedIndexChanged	userTypeCB	SelectedIndexChanged	Resets the search bar text and view count text, and performs actions based on selected inde. <ul style="list-style-type: none"> <li>○ If “All” is selected, retrieves all users and refresh table.</li> <li>○ Else, filters the users based on selected user type and refresh table.</li> </ul>
searchBar_Enter	searchBar	Enter	Clears the search bar text.
searchBar_Click	searchBar	Click	Clears the search bar text.
searchButton_Click	searchButton	Click	<ul style="list-style-type: none"> <li>• It checks if the search bar is empty and prompts the user to enter a valid ID if necessary.</li> <li>• If a valid search term is provided, it filters the user list based on the search text (user ID) and refreshes the data table with the filtered users.</li> </ul>
addDormerButton_Click	addDormerButton	Click	Opens an AddDormerForm to create a new user entry

selectAllCheckBox_CheckedChanged	selectAllCheckBox	CheckedChanged	It iterates through all data table rows and sets the checkbox value in the "Column1" column (for selection) based on the checkbox state.
deleteButtoon_Click	deleteButtoon	Click	Iterates all row in table and delete the rows which were checked by the checkbox and refresh the table once deleted and confirmed.
moveNextPage_Click	moveNextPage	Click	Used for pagination, if there are rows available on the next page, it will move to the next group of rows. Else, notify that user is at the end of the page.
movePrevPage_Click	movePrevPage	Click	Used for pagination, if there are rows available on the previous page, it will move to the previous group of rows. Else, notify that user is at the first page.

### Add Dormer Form

Event Name	Control Owner	Control Event	Description
addDormerButton_Click	addDormerButton	Click	<ul style="list-style-type: none"> <li>Retrieves the Department ID corresponding to selected Department.</li> <li>Validate the fields of the textboxes.</li> <li>Creates a new user based on the fields and prompts confirmation before adding it to database. Then, refresh the table.</li> </ul>
departmentCB_SelectedIndexChanged	departmentCB	SelectedIndexChanged	Updates the College textbox in accordance with its department, whenever there is a department selected.
closeViewButton_Click	closeViewButton	Click	Closes the AddDormer form.

UpdateForm_MouseDown	UpdateForm	MouseDown	Stores the mouse position when the user clicks on the form.
UpdateForm_MouseMove	UpdateForm	MouseMove	If the mouse is down, moves the form along with the mouse cursor.
UpdateForm_MouseUp	UpdateForm	MouseUp	Resets the mouse state when the user releases the mouse button.

### Update Form

Event Name	Control Owner	Control Event	Description
updateDormerButton_Click	updateDormerButton	Click	<ul style="list-style-type: none"> <li>Retrieves the Department ID corresponding to selected Department.</li> <li>Validate the fields of the textboxes.</li> <li>Updates the user based on the fields and prompts confirmation before updating it to database.</li> </ul>
departmentCB_SelectedIndexChanged	departmentCB	SelectedIndexChanged	Updates the College textbox in accordance with its department, whenever there is a department selected.
closeUpdateButton_Click	closeUpdateButton	Click	Closes the Update form.
UpdateForm_MouseDown	UpdateForm	MouseDown	Stores the mouse position when the user clicks on the form.
UpdateForm_MouseMove	UpdateForm	MouseMove	If the mouse is down, moves the form along with the mouse cursor.
UpdateForm_MouseUp	UpdateForm	MouseUp	Resets the mouse state when the user releases the mouse button.

### View Form

Event Name	Control Owner	Control Event	Description
closeDormerInfoButton_Click	closeDormerInfoButton	Click	Closes the View form.
UpdateForm_MouseDown	UpdateForm	MouseDown	Stores the mouse position when the user clicks on the form.
UpdateForm_MouseMove	UpdateForm	MouseMove	If the mouse is down, moves the form along with the mouse cursor.
UpdateForm_MouseUp	UpdateForm	MouseUp	Resets the mouse state when the user releases the mouse button.

### Room Tab Usercon

Event Name	Control Owner	Control Event	Description
roomUserView_EditingControlShowing	roomUserView (DataGridView)	EditingControlShowing	Manages events for the combo box column in each row, attaching/detaching event handlers to prevent memory leaks.



ComboBox_ SelectedIndexChanged	ComboBox (within DataGridView)	SelectedIndexChanged	<ul style="list-style-type: none"> <li>• This event triggers whenever the user selects an option ("<i>Update</i>", "<i>View</i>", or "<i>Delete</i>") from the "<i>Action</i>" dropdown menu.</li> <li>• It retrieves the selected index of the current row and performs the chosen action: <ul style="list-style-type: none"> <li>○ <b>Update:</b> Opens an UpdateForm to modify user information.</li> <li>○ <b>View:</b> Opens a ViewForm to display user details.</li> </ul> </li> </ul>
dormerTableView_ CellContentClick	roomUserView (DataGridView)	CellContentClick	This event is used just to ensure that whenever a row is click, then the corresponding row will be selected accordingly, either <i>checked</i> or <i>unchecked</i> in <b>column1</b> .
refreshButtton_Click	refreshButton	Click	Refetches user data from the database and updates the roomUserView with the current information.
roomChooseCB_ SelectedIndexChanged	roomChooseCB (ComboBox)	SelectedIndexChanged	Retrieves the selected room number, fetches corresponding users from the database, and populates the roomUserView with the updated data.
addRoomAlloc_Click	addRoomAlloc	Click	Opens the AddRoomAllocation form for adding a new user to the selected room, ensuring room capacity is not exceeded.
searchBar_Click	searchBar	Click	Clears the search bar text.
delBut_Click	delBut	Click	Deletes selected users from the database and removes their rows from the roomUserView, with confirmation prompts.

editButton_Click	editButton	Click	Opens the RoomReallocation form to manage user reallocation within the selected room, ensuring both room and user selection.
selectAllCB_CheckedChanged	selectAllCB (Checkbox)	CheckedChanged	It iterates through all data table rows and sets the checkbox value in the "Column1" column (for selection) based on the checkbox state, given that there are users in a room.

### Room Reallocation Form

Event Name	Control Owner	Control Event	Description
updateReallocButton_Click	updateReallocButton	Click	Validate all fields, then moves the room allocation of the selected user from the current room to the selected new room.
closeReallocButton_Click	closeReallocButton	Click	Closes the RoomReallocation form.
UpdateForm_MouseDown	UpdateForm	MouseDown	Stores the mouse position when the user clicks on the form.
UpdateForm_MouseMove	UpdateForm	MouseMove	If the mouse is down, moves the form along with the mouse cursor.
UpdateForm_MouseUp	UpdateForm	MouseUp	Resets the mouse state when the user releases the mouse button.

### Add Room Allocation Form

Event Name	Control Owner	Control Event	Description
------------	---------------	---------------	-------------

addRoomAllocationBut_Click	addRoomAllocationBut	Click	Validate all fields, then select a user without a room depending on the selected user type, then add it to the room if all conditions were met (capacity, number of big brods).
closeReallocButton_Click	closeReallocButton	Click	Closes the RoomReallocation form.
userTypeCB_SelectedIndexChanged	userTypeCB	SelectedIndexChanged	Retrieves the users in accordance to the selected item in userTypeCB and loads the corresponding user type to the chooseCB (ComboBox for uers).
UpdateForm_MouseDown	UpdateForm	MouseDown	Stores the mouse position when the user clicks on the form.
UpdateForm_MouseMove	UpdateForm	MouseMove	If the mouse is down, moves the form along with the mouse cursor.
UpdateForm_MouseUp	UpdateForm	MouseUp	Resets the mouse state when the user releases the mouse button.

### Event Tab Usercon

Event Name	Control Owner	Control Event	Description
eventBut_Click	eventBut	Click	Retrieves the event ID of the panel of the event that is clicked and pass it as a parameter together with the Usercon to the viewForm and create and show it.

addEvent_Click	addEvent	Click	Creates and shows the addEvent form and passes the Event Tab Usercon as a parameter.
delBut_Click	delBut	Click	Creates and shows the deleteForm and passes the Event Tab Usercon as a parameter.
refreshBut_Click	refreshBut	Click	Reset the search bar text and call the SetUpEvents to reload the event up to date.
searchBar_Click	searchBar	Click	Clears the search bar text.
searchBar_Enter	searchBar	Enter	Clears the search bar text.
searchBut_Click	searchBut	Click	Validates the text in search bar, then if valid, find any event title which contains the search bar text. If there were event(s) find, reload by calling SetUpEvents, else, prompt that no event was found.
editButton_Click	editButton	Click	Retrieves the ID of the event and pass it as a parameter to EditEvent form together with the Usercon and create and show it.

### View Event Form

Event Name	Control Owner	Control Event	Description
dormerTableView_CellContentClick	roomUserView (DataGridView)	CellContentClick	This event is used just to ensure that whenever a row is click, then the corresponding row will be selected accordingly, either <i>checked</i> or <i>unchecked</i> in <b>Attendance</b> column.

updateEventButton_Click	updateEventButton	Click	Traverse every row in the data grid view, if checked, then record the attendance as present, else, record the attendance as absent.
selectAllCB_CheckedChanged	selectAllCB (Checkbox)	CheckedChanged	It iterates through all data table rows and sets the checkbox value in the "Attendance" column (for selection) based on the checkbox state, given that there are users in a room.
closeEventButton_Click	closeEventButton	Click	Closes the View Event Form.
UpdateForm_MouseDown	UpdateForm	MouseDown	Stores the mouse position when the user clicks on the form.
UpdateForm_MouseMove	UpdateForm	MouseMove	If the mouse is down, moves the form along with the mouse cursor.
UpdateForm_MouseUp	UpdateForm	MouseUp	Resets the mouse state when the user releases the mouse button.

### Edit Event Form

Event Name	Control Owner	Control Event	Description
updateEditEventBut_Click	updateEditEventBut	Click	Validates all the textboxes, if valid, create the event and pass it to UpdateEvent and dispose the form, else, prompt user for error update of the event.
closeEditEventBut_Click	closeEditEventBut	Click	Closes the Edit Event Form.
UpdateForm_MouseDown	UpdateForm	MouseDown	Stores the mouse position when the user clicks on the form.
UpdateForm_MouseMove	UpdateForm	MouseMove	If the mouse is down, moves the form along with the mouse cursor.
UpdateForm_MouseUp	UpdateForm	MouseUp	Resets the mouse state when the user releases the mouse button.

### Delete Event Form

Event Name	Control Owner	Control Event	Description
deleteEventButton_Click	deleteEventButton	Click	Validates if the user chooses an event to delete. If valid, prompts the user for confirmation, if agreed, the delete event will be deleted by passing the retrieved ID of the event as the parameter, then trigger the refresh button of the eventTab Usercon.
cancelDeleteEventButton_Click	cancelDeleteEventButton	Click	Closes the Delete Event Form.
UpdateForm_MouseDown	UpdateForm	MouseDown	Stores the mouse position when the user clicks on the form.
UpdateForm_MouseMove	UpdateForm	MouseMove	If the mouse is down, moves the form along with the mouse cursor.
UpdateForm_MouseUp	UpdateForm	MouseUp	Resets the mouse state when the user releases the mouse button.

### Add Event Form

Event Name	Control Owner	Control Event	Description
addEventButton_Click	addEventButton	Click	Validates all the data fields on textboxes, then create new event based on the data and pass it as a parameter to AddEvent function, and prompt whether it was successfully added or not.
closeEventButton_Click	closeEventButton	Click	Closes the Add Event Form.
UpdateForm_MouseDown	UpdateForm	MouseDown	Stores the mouse position when the user clicks on the form.
UpdateForm_MouseMove	UpdateForm	MouseMove	If the mouse is down, moves the form along with the mouse cursor.

UpdateForm_MouseUp	UpdateForm	MouseUp	Resets the mouse state when the user releases the mouse button.
--------------------	------------	---------	---

## Payments Tab Usercon

Event Name	Control Owner	Control Event	Description
dormerTableView_EditingControlShowing	dormerTableView (DataGridView)	EditingControlShowing	Manages events for the combo box column in each row, attaching/detaching event handlers to prevent memory leaks.
ComboBox_SelectedIndexChanged	ComboBox (within DataGridView)	SelectedIndexChanged	<ul style="list-style-type: none"> <li>This event triggers whenever the user selects an option ("<i>Add Payment</i>", or "<i>View Payments</i>") from the "<i>Action</i>" dropdown menu.</li> <li>It retrieves the selected index of the current row and performs the chosen action: <ul style="list-style-type: none"> <li><b>Add Payment:</b> Opens a PaymentTransaction form to add payment.</li> <li><b>View Payments:</b> Opens a ViewPayment form to display user payments.</li> </ul> </li> </ul>
refreshButttton_Click	refreshButton	Click	Refetches user data from the database and updates the roomUserView with the current information.
statusCB_SelectedIndexChanged	statusCB (ComboBox)	SelectedIndexChanged	Retrieves the users in accordance with the selected payment status of the users and refreshes the data grid view through the SetupTable function.
itemCB_SelectedIndexChanged	itemCB	SelectedIndexChanged	Resets the search bar text, retrieves the user in accordance to selected user payment status and updates pagination number of pages, and

			refreshes the data table with the appropriate number of users per page.
refreshBut_Click	refreshBut	Click	Resets the texts in search bar, statusCB, and itemCB. It clears the current list of users, and retrieves the updates users from the database and populate it to the table.
searchBar_Click	searchBar	Click	Clears the search bar text.
searchBar_Enter	searchBar	Enter	Clears the search bar text.
searchBut_Click	searchBut	Click	<ul style="list-style-type: none"> <li>• It checks if the search bar is empty and prompts the user to enter a valid User ID if necessary.</li> <li>• If a valid search term is provided, it filters the user list based on the search text (user ID) and refreshes the data table with the filtered users.</li> </ul>
nextPage_Click	nextPage	Click	Used for pagination, if there are rows available on the next page, it will move to the next group of rows. Else, notify that user is at the end of the page.
prevPage_Click	prevPage	Click	Used for pagination, if there are rows available on the previous page, it will move to the previous group of rows. Else, notify that user is at the first page.
paymentsSummary_Click	paymentsSummary	Click	Creates an instance of PaymentSummary form and show it to view the summary of payment.
regularPayablesBut_Click	regularPayablesBut	Click	Creates an instance of RegularPayableForm form and show it to view the regular payables.



### Payments Summary

Event Name	Control Owner	Control Event	Description
closeViewButton_Click	closeViewButton	Click	Closes the Payments Summary Form.
UpdateForm_MouseDown	UpdateForm	MouseDown	Stores the mouse position when the user clicks on the form.
UpdateForm_MouseMove	UpdateForm	MouseMove	If the mouse is down, moves the form along with the mouse cursor.
UpdateForm_MouseUp	UpdateForm	MouseUp	Resets the mouse state when the user releases the mouse button.

### Payments Transaction

Event Name	Control Owner	Control Event	Description
closeViewButton_Click	closeViewButton	Click	Closes the PaymentsTransaction Form.
addPaymentButton_Click	addPaymentButton	Click	Validate all fields. If valid, create a new payment and call the AddPayment function to add the new transaction payment, and refreshes the PaymentsTab usercon.
UpdateForm_MouseDown	UpdateForm	MouseDown	Stores the mouse position when the user clicks on the form.
UpdateForm_MouseMove	UpdateForm	MouseMove	If the mouse is down, moves the form along with the mouse cursor.
UpdateForm_MouseUp	UpdateForm	MouseUp	Resets the mouse state when the user releases the mouse button.

### Regular Payable Form

Event Name	Control Owner	Control Event	Description
------------	---------------	---------------	-------------

closeViewButton_Click	closeViewButton	Click	Closes the RegularPayable Form and refreshes the data in data grid view.
editPayable_Click	editPayable	Click	Prompts the user that editing a regular payable is not available, because it can only be accessed every beginning of the semester.
addRegularPayable_Click	addRegularPayable	Click	Prompts the user that adding a regular payable is not available, because it can only be accessed every beginning of the semester.
deleteButton_Click	deleteButton	Click	Prompts the user that deleting a regular payable is not available, because it can only be accessed every beginning of the semester.
UpdateForm_MouseDown	UpdateForm	MouseDown	Stores the mouse position when the user clicks on the form.
UpdateForm_MouseMove	UpdateForm	MouseMove	If the mouse is down, moves the form along with the mouse cursor.
UpdateForm_MouseUp	UpdateForm	MouseUp	Resets the mouse state when the user releases the mouse button.

### View Payment Form

Event Name	Control Owner	Control Event	Description
closeViewButton_Click	closeViewButton	Click	Closes the ViewPayments Form.
UpdateForm_MouseDown	UpdateForm	MouseDown	Stores the mouse position when the user clicks on the form.
UpdateForm_MouseMove	UpdateForm	MouseMove	If the mouse is down, moves the form along with the mouse cursor.
UpdateForm_MouseUp	UpdateForm	MouseUp	Resets the mouse state when the user releases the mouse button.

## Settings Tab Usercon

Event Name	Control Owner	Control Event	Description
changePicButton_Click	changePicButton	Click	Opens the OpenFileDialog and allows the user to select an image. Once selected and confirmed, it checks if it is within the limit size then its image byte data will be fetched and stored to the database, if successfully stored, update the pictureUser image and refresh the picture and the main dashboard.
updateInfoBut_Click	updateInfoBut	Click	Validates if there is a retrieved user and the fields of textboxes. If valid, the account will be updated based on the text inputted in the textboxes and prompts the user with regards to the update result.
resetButton_Click	resetButton	Click	Validates the fields for resetting the password. If all valid, then the account will be updates with the new password, and the user will be prompt regarding the update result.
viewNewPassBut_Click	viewNewPassBut	Click	Makes the new password characters visible in the input field. Then, hides the hideNewPassBut and make the vieceNewPassBut visible.
hideNewPassBut_Click	hideNewPassBut	Click	Hides the new password characters behind masking characters. Then hides the vieceNewPassBut and make the hideNewPassBut visible.
viewConfirmPassBut_Click	viewConfirmPassBut	Click	Makes the confirm password characters visible in the input field. Then, hides the hideConfirmPassBut and make the viewConfirmPassBut visible.
hideConfirmPassBut_Click	hideConfirmPassBut	Click	Hides the confirm password characters behind masking characters. Then, hides the

			viewConfirmPassBut and make the hideConfirmPassBut visible.
newPass_TextChanged	newPass	TextChanged	Check the password to see if it is valid. It checks every changed in text in the textbox newPass.
confirmPass_TextChanged	confirmPass	TextChanged	Check the password to see if it is valid. It checks every changed in text in the textbox confirmPass.