



## **EQUIPMENT RENTAL SYSTEM FOR STUDENTS IN INSTRUMENTAL GROUPS**

A Human-Computer Interaction Project

presented to the Faculty of the

College of Computer Studies

In Partial Fulfillment

of the Requirements in CCS 8 - A

**Submitted by:**

RYNZ A. DAVAL

LANZ P. GABOR

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## Introduction

The project is a desktop application that utilizes a rental system. Its design allows users to specifically rent musical instruments. The application hosts an overall user-friendly and minimalistic interface that helps a user smoothly navigate through categories of instruments which would be intricately organized by the inventory staff of a musical organization. The application also features an accounts system that can track the rental history and current rentals for each user. Further, the application can inventory dozens of different instruments from different instrumental families while showcasing relevant information that will aid a user in selecting the equipment that will best suit their needs. Additionally, the assigned staff, through a manager account, are given add, edit, and remove permissions for the inventory.

This project was crafted to slowly provide solutions to the current inefficient borrowing/rental system of instrumental groups from Silliman University. These groups, namely the Silliman University Band (SU Band) and the Silliman University String Ensemble (SUSE), currently possess no digital application that could aid their officers in organizing transactions and records from students that will borrow or rent instruments. To further support the claim, one of the group members, namely Lanz Gabor, is a current officer of the Silliman University String Ensemble. He formulated the idea through several first-hand experiences on listing and revising the information of his group's instrumental inventory, wherein each session would take a lot of time, effort, and memory recalling due to inconsistencies in the inventory.



To achieve the data and information needed for this application, careful and intensive research was implemented in order to fill the gaps of the application's variables. The daily rental prices, declared values, and reservation fees of the instruments were webbed together from average rates from multiple online music stores. Some data was also collected from second-hand websites such as eBay and Reverb to further justify the rates needed for the instruments. Lastly, information was gathered from the members of the instrumental groups to piece together affordable rates adjusted to the local economy of the scope.

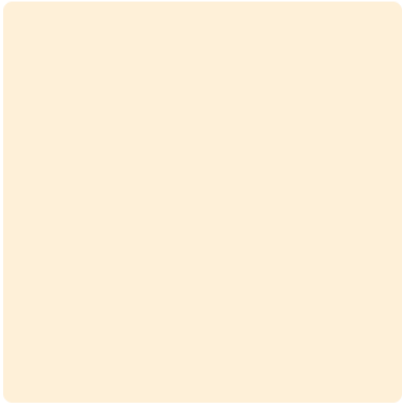
## Design Specifications

### Color Scheme

The monochromatic color scheme was used all throughout the user interface of the desktop application. The palette was inspired from the color of concert halls from all around the world. The color palette used is shown in the table below.

Table 1. Color Palette

Hex Code	Image Reference
HEX: #B78B48  RGB: 197, 162, 109  CMYK: 0, 18, 45, 23	
HEX: #C5A26D  RGB: 183, 139, 72  CMYK: 0, 24, 61, 28	

<p>HEX: #FEF0D8</p> <p>RGB: 254, 240, 216</p> <p>CMYK: 0, 6, 15, 0</p>	
<p>HEX: #FFFFFF</p> <p>RGB: 255, 255, 255</p> <p>CMYK: 0, 0, 0, 0</p>	

## Exact Organization Schemes

In the application, exact organization schemes such as alphabetical, chronological, or geographical, weren't implemented.

## Ambiguous Organizational Schemes

The desktop application implemented the task-oriented ambiguous organizational scheme. Stemming from its definition which is to focus on grouping information and features based on specific tasks or actions that users need to perform, the buttons in the application that let the user rent, cancel, or choose which category of instruments indicate actions or tasks that users can perform within the system.

In the application, the “Rent” button suggests the action of renting an instrument, while the “Cancel” button implies the task of canceling a rental. The “Categories” button allows users to browse or search for instruments based on their instrumental families.

## **Organization Structures**

The desktop application implemented the sequential organization structure. Stemming from its definition which is that it organizes information or actions in a linear or sequential manner, where one step or action follows another, the buttons for “Rent,” “Cancel,” and “Categories” imply a linear progression of actions, or a sequential flow.

In the application, a user typically starts by selecting a category of instruments, indicating a step in the sequence. After clicking on a category, the application then displays the available instruments, representing the next step in the sequence. After choosing an instrument, the application brings the user to the rental process form, which indicates the last step of the sequence.

## **Navigation Systems**

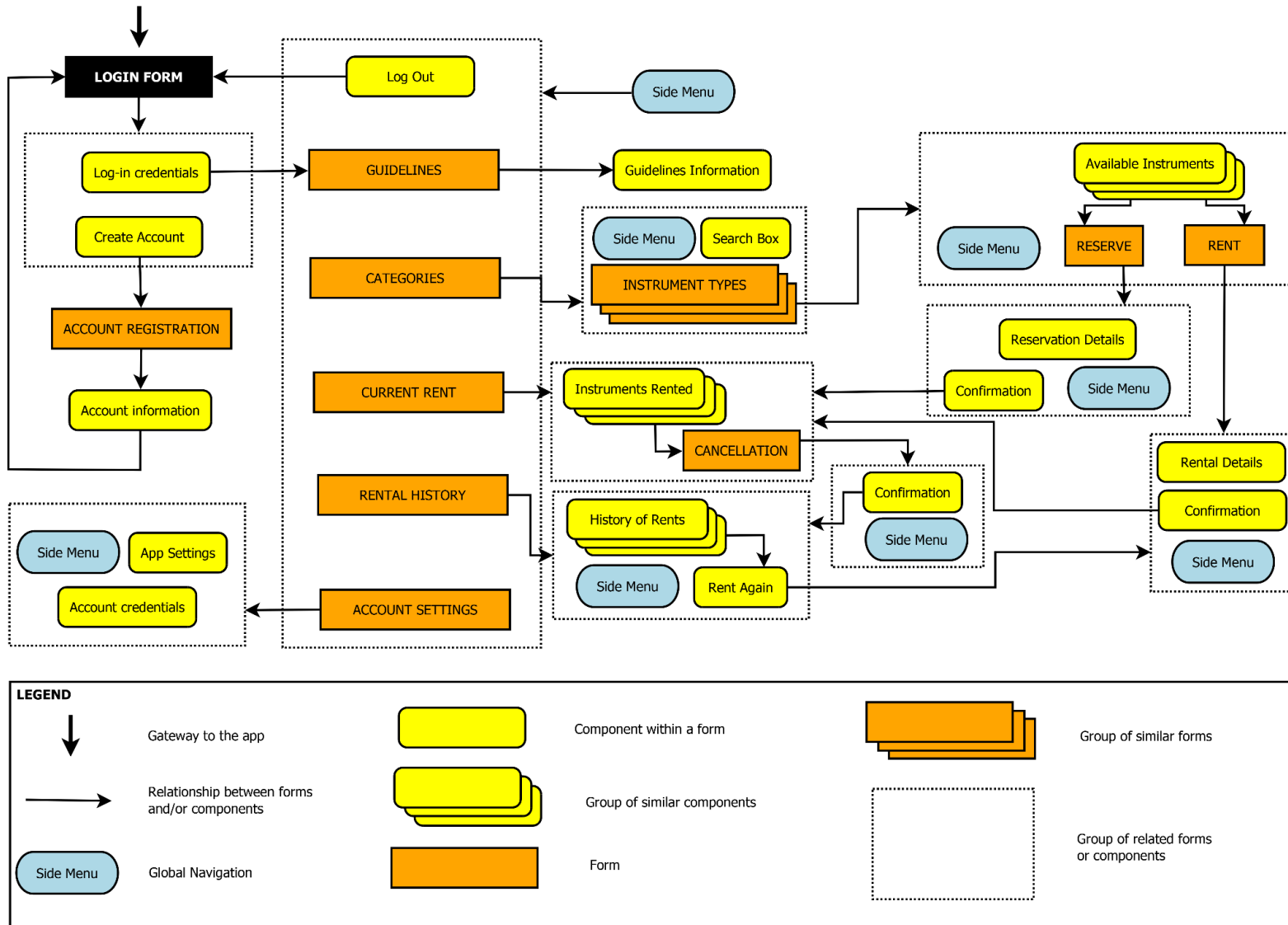
The desktop application implemented both the global and local navigation systems. Stemming from the definition of a global navigation system: referring to the primary navigation elements that are consistent and accessible throughout the entire system or website, the buttons for “Categories,” “Account Settings,” “Log Out User,” “Guidelines,” “Rental History,” and “Current Rent” can be considered as global navigation elements. In the application, a user can navigate back to those pages/forms regardless of the sequence.

On the other hand, a local navigation system pertains to navigation elements that are specific to a particular section or context within the system and it is evident on the “Categories,” “Register,” “Log In,” “Rent,” and “Cancel” buttons which suggests the presence of local navigation.



# Blueprint

Figure 1. Blueprint of the Desktop Application



## Wireframe and Actual Screen Shots

Figure 2a. Description of the Wireframe (Form 1 - Account Log In)

The image shows a wireframe of a web form titled "Account Log In" centered within a browser window. The browser window's title bar reads "Equipment Rental System - Account Log In". The form itself is a rectangular box containing the following elements: a subtitle "Account Log In" at the top; two input fields, "Username" and "Password", each preceded by a square icon placeholder with an 'X' and followed by a circular help icon with a question mark; a toggle switch to the right of the "Password" field; a blue underlined link "Register" at the bottom left; and a rectangular button labeled "Log In" at the bottom right.

Figure 2a shows the wireframe for the first form entitled “Account Log In.” It consists of two (2) icon placeholders, two (2) text boxes for input, two (2) help signifiers, two (2) buttons, one (1) subtitle, one (1) panel, and one (1) on/off switch.

Figure 2b. Description of the Actual Screen Shot (Form 1 - Account Log In)

The screenshot shows a web browser window titled "Equipment Rental System - Account Log In". The main content area has a solid orange background. Centered on this background is a white rectangular panel with a thin grey border. Inside the panel, the title "Account Log In" is displayed in bold black text. Below the title are two input fields. The first field is labeled "Enter Username" and is preceded by a user icon (a person inside a circle) and followed by a help icon (a question mark inside a circle). The second field is labeled "Enter Password" and is preceded by a lock icon (a padlock inside a circle) and followed by a help icon. To the right of the password input field is a small, empty square checkbox. At the bottom of the panel are two buttons: "Register" and "Log In".

Figure 2b shows the actual screen shot for the first form entitled “Account Log In.” It consists of two (2) colors, two (2) icons, two (2) text boxes for input, two (2) help signifiers, two (2) buttons, one (1) subtitle, one (1) panel, and one (1) on/off switch.

Form 1 is the first form that will be displayed upon launch. The form will ask for login credentials. From here, you could also proceed to account creation via “Register.” The password input box also features a show/hide button to censor the password. Help signifiers are also present beside the text input boxes for starters.

Figure 3a. Description of the Wireframe (Form 2 - Account Registration)

The wireframe shows a web browser window titled "Equipment Rental System - Account Registration". Inside the window is a central panel titled "Registration". This panel contains three input fields, each preceded by a square icon placeholder with an 'X' and followed by a help icon (a circle with a question mark). The first field is labeled "Username". The second field is labeled "Password" and includes a toggle switch to its right. The third field is labeled "Confirm PW" and also includes a toggle switch to its right. Below these fields is a blue, underlined link that says "Create Account".

Figure 3a shows the wireframe for the second form entitled “Account Registration.” It consists of two (3) icon placeholders, three (3) text boxes for input, three (3) help signifiers, two (2) on/off switches, one (1) button, one (1) subtitle, and one (1) panel.

Figure 3b. Description of the Actual Screenshot (Form 2 - Account Registration)

The screenshot shows a web browser window titled "Equipment Rental System - Account Registration". The main content is a registration form with a light orange background. The form is titled "Registration" in bold black text. It contains three input fields: "Enter Username", "Enter Password", and "Confirm Password". Each input field has a user icon to its left and a question mark icon to its right. The "Enter Password" and "Confirm Password" fields also have a small square checkbox to their right. Below the input fields is a "Create Account" button. The browser window has standard OS controls (minimize, maximize, close) in the top right corner.

Figure 3b shows the actual screen shot for the second form entitled “Account Registration.” It consists of three (3) icons, three (3) text boxes for input, three (3) help signifiers, two (2) colors, two (2) on/off switches, one (1) button, one (1) subtitle, and one (1) panel.

Form 2 is the form that will be displayed once “Register” is pressed. The form will ask for user credentials. After the creation, the user will be redirected back to the “Log In” form. The password input boxes also feature show/hide buttons to censor the password. Help signifiers are also present beside the text input boxes for starters.

Figure 4a. Description of the Wireframe (Form 3 - Guidelines)

Equipment Rental System - Guidelines

☐ User's Full Name  
☐ Type: Member/Admin  
☐ Log Out User

☐ Guidelines  
☐ Categories  
☐ Current Rent  
☐ Rental History  
☐ Account Settings

## Guidelines

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

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Figure 4a shows the wireframe for the third form entitled “Guidelines.” It consists of eight (8) icon placeholders, six (6) buttons, four (4) text boxes, two (2) panels, one (1) vertical scroll bar, one (1) progress bar, and one (1) block of text.

Figure 4b. Description of the Actual Screen Shot (Form 3 - Guidelines)

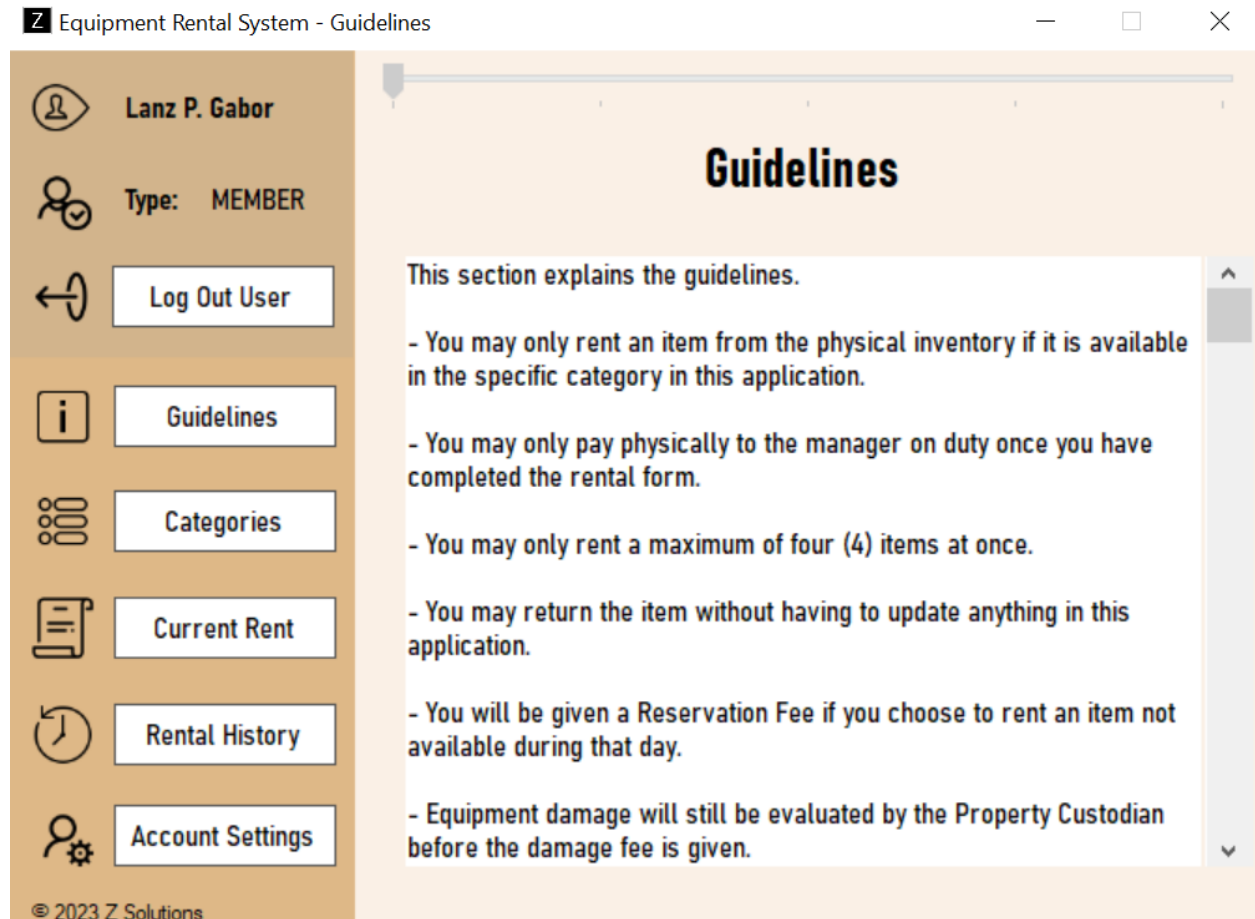


Figure 4b shows the actual screen shot for the third form entitled “Guidelines.” It consists of eight (8) icons, six (6) buttons, five (5) text boxes, three (3) panels, one (1) vertical scroll bar, one (1) progress bar, and one (1) block of text.

Form 3 is the “main” form that will feature all the buttons from the side menu bar. This form displays the guidelines in using the application. Each button in the side menu bar will redirect the user to another form.

Figure 5a. Description of the Wireframe (Form 4 - Categories)

The wireframe shows a web application window titled "Equipment Rental System - Categories". On the left is a sidebar with a list of navigation links, each preceded by a checkbox icon. The links are: "User's Full Name", "Type: Member/Admin", "Log Out User", "Guidelines", "Categories" (highlighted in blue), "Current Rent", "Rental History", and "Account Settings". The main content area is titled "Categories" and features a search bar with a magnifying glass icon and a dropdown arrow. Below the search bar is a 2x3 grid of category buttons. Each button is represented by a square icon with an 'X' inside, and a text label below it. The categories are: Brass, Keyboards, Percussions, Strings, Woodwinds, and Miscellaneous. A progress bar is located at the top of the main content area.

Figure 5a shows the wireframe for the fourth form entitled “Categories.” It consists of fourteen (14) icon placeholders, twelve (12) buttons, four (4) text boxes, two (2) panels, one (1) progress bar, and one (1) search bar.



Figure 5b. Description of the Actual Screen Shot (Form 4 - Categories)

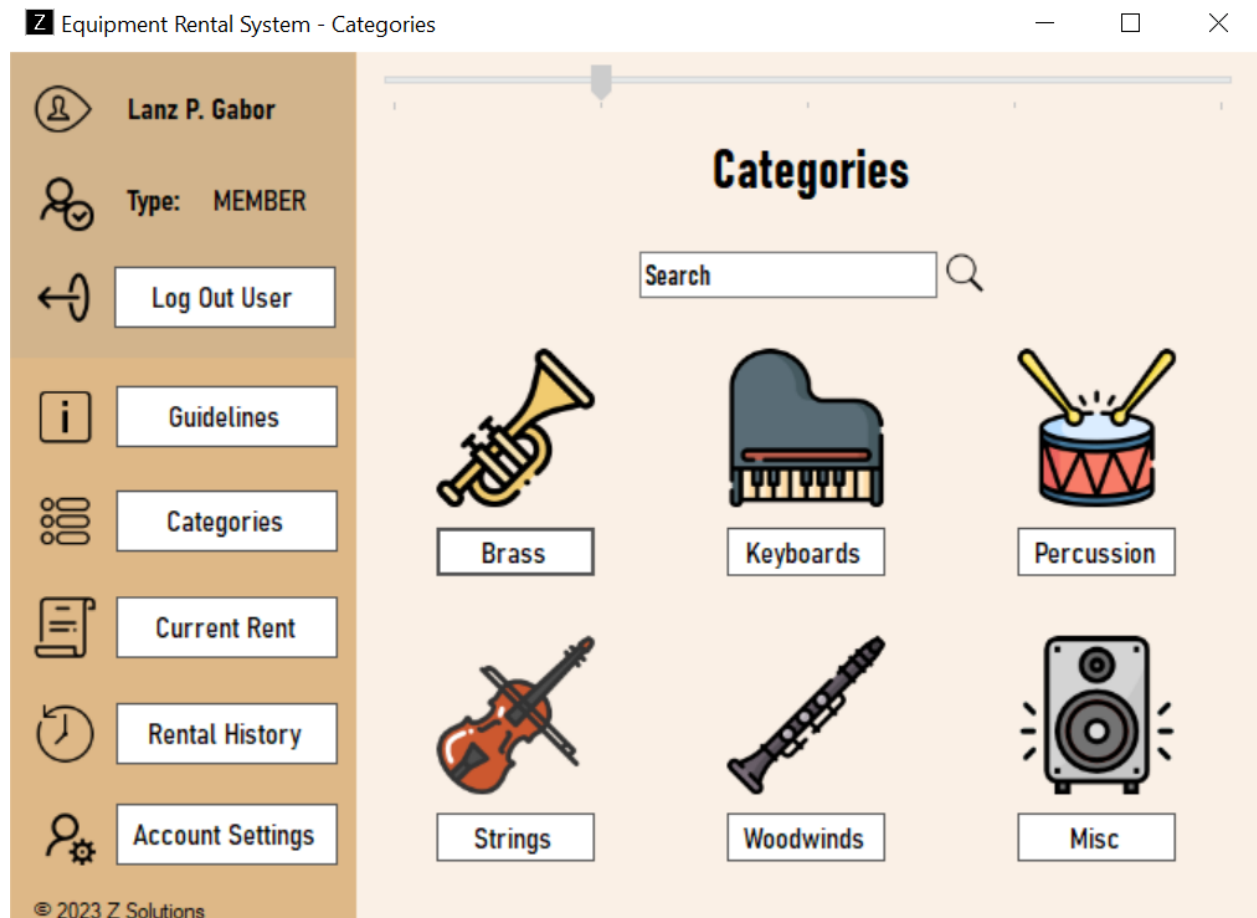


Figure 5b shows the actual screen shot for the fourth form entitled “Categories.” It consists of fifteen (15) icons, thirteen (13) buttons, five (5) text boxes, two (2) panels, one (1) vertical scroll bar, one (1) progress bar, one (1) text box for input, and one (1) block of text.

Form 4 features all the instrument family categories as icons and buttons. Each button in the side menu bar will redirect the user to another form. Further, each button in the center will also redirect the user to another form. This form is used to redirect the user to the instrument family of their choice. Additionally, a search bar is included for convenience.

Figure 6a. Description of the Wireframe (Form 5 - Current Rent)

Equipment Rental System - Current Rent

Current Rent

☒ User's Full Name  
☒ Type: Member/Admin  
☒ Log Out User  
☒ Guidelines  
☒ Categories  
☒ Current Rent  
☒ Rental History  
☒ Account Settings

Cancel

Cancel

Figure 6a shows the wireframe for the fifth form entitled “Current Rent.” It consists of eight (8) icon placeholders, eight (8) buttons, four (4) text boxes, four (4) panels, two (2) image placeholders, two (2) blocks of text, and one (1) progress bar.

Figure 6b. Description of the Actual Screen Shot (Form 5 - Current Rent)

**Equipment Rental System - Current Rent**

**Lanz P. Gabor**  
Type: MEMBER  
Log Out User  
Guidelines  
Categories  
Current Rent  
Rental History  
Account Settings  
© 2023 Z Solutions

## Current Rent



	<b>Item Name:</b> Violin <b>Start Date:</b> 05/10/2023 <b>Declared Value:</b> Php 25000 <b>Reservation Fee:</b> Php 0	<b>Item Number:</b> 000001 <b>End Date:</b> 05/12/2023 <b>Daily Rate:</b> Php 250 <b>Total:</b> Php 750 <a href="#">Cancel</a>
	<b>Item Name:</b> Piano <b>Start Date:</b> 05/10/2023 <b>Declared Value:</b> Php 30000 <b>Reservation Fee:</b> Php 50	<b>Item Number:</b> 000009 <b>End Date:</b> 05/12/2023 <b>Daily Rate:</b> Php 500 <b>Total:</b> Php 1500 <a href="#">Cancel</a>

Figure 6b shows the actual screen shot for the fifth form entitled “Current Rent.” It consists of eight (8) icons, eight (8) buttons, five (5) text boxes, four (4) blocks of text, four (4) panels, two (2) images, one (1) vertical scroll bar, and one (1) progress bar.

Form 5 features all the current rent that the user has transacted. Each button in the side menu bar will redirect the user to another form. Further, each “Cancel” button in the center will also redirect the user to the “Cancellation Process” form. This form is used to display the information of all of the current rent of the user, while they could also cancel their current rent.

Figure 7a. Description of the Wireframe (Form 6 - Rental History)

Equipment Rental System - Rental History

☐ User's Full Name  
☐ Type: Member/Admin  
☐ Log Out User  
☐ Guidelines  
☐ Categories  
☐ Current Rent  
☒ Rental History  
☐ Account Settings

## Rental History

Available
 ☐

Rent Again

Available on MM/DD/YYYY
 ☐

Rent Again

Figure 7a shows the wireframe for the sixth form entitled “Rental History.” It consists of ten (10) icon placeholders, eight (8) buttons, six (6) text boxes, four (4) panels, two (2) image placeholders, two (2) blocks of text, one (1) vertical scroll bar, and one (1) progress bar.

Figure 7b. Description of the Actual Screen Shot (Form 6 - Rental History)

**Equipment Rental System - Rental History**

**Lanz P. Gabor**  
Type: MEMBER  
Log Out User  
Guidelines  
Categories  
Current Rent  
Rental History  
Account Settings  
© 2023 Z Solutions

## Rental History



	<b>Item Name:</b> Violin <b>Start Date:</b> 04/10/2023 <b>Declared Value:</b> Php 25000 <b>Reservation Fee:</b> Php 0 <b>Available</b>	<b>Item Number:</b> 000001 <b>End Date:</b> 04/12/2023 <b>Daily Rate:</b> Php 250 <b>Total:</b> Php 750 <b>Rent Again</b>
	<b>Item Name:</b> Piano <b>Start Date:</b> 04/10/2023 <b>Declared Value:</b> Php 30000 <b>Reservation Fee:</b> Php 50 <b>Available on 06/10/2023</b>	<b>Item Number:</b> 000009 <b>End Date:</b> 04/12/2023 <b>Daily Rate:</b> Php 500 <b>Total:</b> Php 1500 <b>Rent Again</b>

Figure 7b shows the actual screen shot for the sixth form entitled “Rental History.” It consists of ten (10) icons, eight (8) buttons, seven (7) text boxes, four (4) blocks of text, four (4) panels, two (2) images, one (1) vertical scroll bar, and one (1) progress bar.

Form 6 features all the rental history that the user has transacted. Each button in the side menu bar will redirect the user to another form. Further, each “Rent Again” button in the center will also redirect the user to the “Categories” form. This form is used to display the information of all of the rent the user has transacted. The user can also opt to rent the instrument again at their convenience.

Figure 8a. Description of the Wireframe (Form 7 - Account Settings)

The wireframe shows a window titled "Equipment Rental System - Account Settings". On the left is a sidebar with a vertical list of menu items, each preceded by an icon placeholder (a square with an 'X'). The items are: "User's Full Name", "Type: Member/Admin", "Log Out User", "Guidelines", "Categories", "Current Rent", "Rental History", and "Account Settings" (which is highlighted in blue). The main content area is titled "Account Settings" and contains three settings sections, each with an icon placeholder, a label, an input field, a help icon (a circle with a question mark), and a "Confirm" button. The sections are: "Change username:" with a text input field containing "Username"; "Change password:" with a text input field containing "Password"; and "Change language:" with a dropdown menu showing "English (United States)". A horizontal progress bar is located at the top of the main content area, and a vertical scrollbar is on the right side.

Figure 8a shows the wireframe for the seventh form entitled “Account Settings.” It consists of eleven (11) icon placeholders, nine (9) buttons, seven (7) text boxes, three (3) panels, three (3) help signifiers, two (2) text boxes for input, one (1) vertical scroll bar, and one (1) progress bar, and one (1) combo box.

Figure 8b. Description of the Actual Screen Shot (Form 7 - Account Settings)

The screenshot shows a web application window titled "Equipment Rental System - Account Settings". The interface has a light orange background. On the left is a vertical sidebar with a dark orange header area containing the user's name "Lanz P. Gabor" and type "MEMBER". Below this are several buttons: "Log Out User", "Guidelines", "Categories", "Current Rent", "Rental History", and "Account Settings" (which is highlighted). At the bottom of the sidebar is the copyright notice "© 2023 Z Solutions". The main content area is titled "Account Settings" and contains three settings sections, each with an icon, a label, an input field, a help icon (question mark), and a "Confirm" button. The sections are: "Change username:" with a text input field containing "Username"; "Change password:" with a text input field containing "Enter Password"; and "Change language:" with a dropdown menu showing "English (United State)".

Figure 8b shows the actual screen shot for the seventh form entitled “Account Settings.” It consists of eleven (11) icons, nine (9) buttons, eight (8) text boxes, three (3) panels, three (3) help signifiers, two (2) text boxes for input, one (1) combo box, and one (1) progress bar.

Form 7 features the account settings. Each button in the side menu bar will redirect the user to another form. The user can change their username, password, and language by confirming them through the “Confirm” button.

Figure 9a. Description of the Wireframe (Form 8 - Rental Process)

Equipment Rental System - Rental Process

☒ User's Full Name

☒ Type: Member/Admin

☒ Log Out User

☒ Guidelines

☒ Categories

☒ Current Rent

☒ Rental History

☒ Account Settings

## Rental Process

Item Name:  Item Number:

Start Date:   End Date:

Declared Value:  Daily Rate:

Reservation Fee:  Total:

I have read and understood each clause of the guidelines and shall accept the necessary consequences from mishandling the equipment.

☐ Yes ☐ No

**RENT**

Figure 9a shows the wireframe for the eighth form entitled “Rental Process.” It consists of nineteen (19) text boxes, ten (10) icon placeholders, nine (9) buttons, four (4) panels, two (2) text boxes for input, two (2) check boxes, one (1) vertical scroll bar, one (1) progress bar, and one (1) block of text.



Figure 9b. Description of the Actual Screen Shot (Form 8 - Rental Process)

The screenshot shows a web application window titled "Equipment Rental System - Rental Process". On the left is a vertical sidebar with a user profile for "Lanz P. Gabor" (Type: MEMBER) and buttons for "Log Out User", "Guidelines", "Categories", "Current Rent", "Rental History", and "Account Settings". The main content area is titled "Rental Process" and displays rental details for a "Violin" (Item Number: 000001). The details include a "Start Date" of 05/10/2023, an "End Date" of 05/12/2023, a "Declared Value" of Php 25000, a "Daily Rate" of Php 250, a "Reservation Fee" of Php 0, and a "Total" of Php 750. Below these details is a text box with the statement: "I have read and understood each clause of the guidelines and shall accept the necessary consequences from mishandling the equipment." This is followed by two checkboxes labeled "Yes" and "No". At the bottom center is a large "RENT" button. The footer of the sidebar indicates "© 2023 Z Solutions".

Item Name:	Item Number:
Violin	000001

Start Date:	End Date:
05/10/2023	05/12/2023

Declared Value:	Daily Rate:
Php 25000	Php 250

Reservation Fee:	Total:
Php 0	Php 750

I have read and understood each clause of the guidelines and shall accept the necessary consequences from mishandling the equipment.

☐ Yes ☐ No

**RENT**

Figure 9b shows the actual screen shot for the eighth form entitled “Rental Process.” It consists of twenty (20) text boxes, ten (10) icons, nine (9) buttons, four (4) panels, two (2) text boxes for input, two (2) check boxes, one (1) progress bar, and one (1) block of text.

Form 8 features the form for the rental process. Each button in the side menu bar will redirect the user to another form. In this form, the user can review the details of the instrument that they will be renting through details such as the item name, item number, declared value, daily rate, reservation fee (for reserving), and the total. The user can also choose the starting and ending date of their rent. If the user opted for reservation instead because the availability is still at a later date, the starting date will be disabled and will be filled with the availability date.

Figure 10a. Description of the Wireframe (Form 9 - Cancellation Process)

The wireframe shows a window titled "Equipment Rental System - Cancellation Process". On the left is a sidebar with a list of items, each preceded by an "X" icon placeholder. The items are: "User's Full Name", "Type: Member/Admin", "Log Out User", "Guidelines", "Categories", "Current Rent", "Rental History", and "Account Settings". The main area of the window has a title bar at the top. Below the title bar is a progress bar. The main heading is "Cancellation Process". Below this are two input fields: "Item Name: Name" and "Item Number: 000000". Below these is a "Reason: Enter text" input field. Below the reason field is a question "Do you wish to cancel?" followed by two checkboxes, "Yes" and "No". At the bottom center is a "CANCEL" button.

Equipment Rental System - Cancellation Process

X User's Full Name

X Type: Member/Admin

X Log Out User

X Guidelines

X Categories

X Current Rent

X Rental History

X Account Settings

Cancellation Process

Item Name: Name Item Number: 000000

Reason: Enter text

Do you wish to cancel? ☐ Yes ☐ No

CANCEL

Figure 10a shows the wireframe for the ninth form entitled "Cancellation Process." It consists of twelve (12) text boxes, eight (8) icon placeholders, seven (7) buttons, four (4) panels, one (1) text box for input, two (2) check boxes, and one (1) progress bar.

Figure 10b. Description of the Actual Screen Shot (Form 9 - Cancellation Process)

Equipment Rental System - Cancellation Process

**Lanz P. Gabor**

Type: MEMBER

Log Out User

Guidelines

Categories

Current Rent

Rental History

Account Settings

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## Cancellation Process

Item Name: Violin      Item Number: 000001

Reason:

Do you wish to cancel? ☐ Yes ☐ No

CANCEL

Figure 10b shows the actual screen shot for the ninth form entitled “Cancellation Process.” It consists of thirteen (13) text boxes, eight (8) icon placeholders, seven (7) buttons, four (4) panels, one (1) text box for input, two (2) check boxes, and one (1) progress bar.

Form 9 features the form for the cancellation process. Each button in the side menu bar will redirect the user to another form. In this form, the user can review the details of the instrument that they will be cancelling through details such as the item name and item number. The reason for cancellation should also be stated. The user must then confirm their cancellation through checkboxes before proceeding with the “Cancel” button.

Figure 11a. Description of the Wireframe (Form 10 - Brass)

Equipment Rental System - Brass

Brass

Available

Rent

Available on MM/DD/YYYY

Rent

Figure 11a shows the wireframe for the tenth form entitled “Brass.” It consists of ten (10) icon placeholders, eight (8) buttons, seven (7) text boxes, four (4) panels, two (2) image placeholders, two (2) blocks of text, one (1) vertical scroll bar, and one (1) progress bar.

Figure 11b. Description of the Actual Screen Shot (Form 10 - Brass)

**Equipment Rental System - Brass**

**Lanz P. Gabor**

Type: MEMBER

Log Out User

Guidelines

Categories

Current Rent

Rental History

Account Settings

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## Brass

Item Name: Trumpet  
 Start Date: 04/10/2023  
 Declared Value: Php 50000  
 Reservation Fee: Php 0  
 Item Number: 000001  
 End Date: 04/12/2023  
 Daily Rate: Php 250  
 Total: Php 750  
 Available  
 Rent

Item Name: Saxophone  
 Start Date: 04/10/2023  
 Declared Value: Php 50000  
 Reservation Fee: Php 50  
 Item Number: 000009  
 End Date: 04/12/2023  
 Daily Rate: Php 250  
 Total: Php 750  
 Available on 06/10/2023  
 Rent

Figure 11b shows the actual screen shot for the tenth form entitled “Brass.” It consists of fourteen (14) icons, twelve (12) buttons, eight (8) text boxes, four (4) panels, four (4) text boxes for input, four (4) blocks of text two (2) images, one (1) vertical scroll bar, and one (1) progress bar.

Form 10 features the category for the brass family of instruments that can be rented. Each button in the side menu bar will redirect the user to another form. In this form, the user can review the details of the instrument that they will be renting through details such as the item name, item number, declared value, daily rate, reservation fee (for reserving), and the total. The user can also choose the starting and ending date of their rent. If the user opted for reservation instead because the availability is still at a later date, the starting date will be disabled and will be filled with the availability date.

Figure 12a. Description of the Wireframe (Form 11 - Keyboards)

Equipment Rental System - Keyboards

Keyboards

User's Full Name

Type: Member/Admin

Log Out User

Guidelines

Categories

Current Rent

Rental History

Account Settings

Available

Rent

Available on MM/DD/YYYY

Rent

Figure 12a shows the wireframe for the eleventh form entitled “Keyboards.” It consists of ten (10) icon placeholders, eight (8) buttons, seven (7) text boxes, four (4) panels, two (2) image placeholders, two (2) blocks of text, one (1) vertical scroll bar, and one (1) progress bar.

Figure 12b. Description of the Actual Screen Shot (Form 11 - Keyboards)

**Equipment Rental System - Keyboards**

**User Information:** Lanz P. Gabor, Type: MEMBER

**Navigation:** Log Out User, Guidelines, Categories, Current Rent, Rental History, Account Settings

**Keyboards**

Item Name	Item Number	Start Date	End Date	Declared Value	Daily Rate	Reservation Fee	Total	Status	Action
Piano	000001	04/10/2023	04/12/2023	Php 50000	Php 500	Php 0	Php 1500	Available	Rent
Keyboard	000009	04/10/2023	04/12/2023	Php 30000	Php 500	Php 50	Php 1500	Available on 06/10/2023	Rent

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Figure 12b shows the actual screen shot for the eleventh form entitled “Keyboards.” It consists of fourteen (14) icons, twelve (12) buttons, eight (8) text boxes, four (4) panels, four (4) text boxes for input, four (4) blocks of text two (2) images, one (1) vertical scroll bar, and one (1) progress bar.

Form 11 features the category for the keyboard family of instruments that can be rented. Each button in the side menu bar will redirect the user to another form. In this form, the user can review the details of the instrument that they will be renting through details such as the item name, item number, declared value, daily rate, reservation fee (for reserving), and the total. The user can also choose the starting and ending date of their rent. If the user opted for reservation instead because the availability is still at a later date, the starting date will be disabled and will be filled with the availability date.

Figure 13a. Description of the Wireframe (Form 12 - Percussions)

The wireframe shows a web application window titled "Equipment Rental System - Percussions". On the left is a sidebar with a list of navigation items, each preceded by a checkbox icon: "User's Full Name", "Type: Member/Admin", "Log Out User", "Guidelines", "Categories", "Current Rent", "Rental History", and "Account Settings". The main content area is titled "Percussions" and features a progress bar at the top. Below the title, there are two rows of equipment listings. Each listing consists of a square placeholder with an 'X' inside, a status indicator (a circle followed by the text "Available" or "Available on MM/DD/YYYY"), and a "Rent" button. The first listing has a white circle and the text "Available", while the second listing has a grey circle and the text "Available on MM/DD/YYYY".

Figure 13a shows the wireframe for the twelfth form entitled “Percussions.” It consists of ten (10) icon placeholders, eight (8) buttons, seven (7) text boxes, four (4) panels, two (2) image placeholders, two (2) blocks of text, one (1) vertical scroll bar, and one (1) progress bar.



Figure 13b. Description of the Actual Screen Shot (Form 12 - Percussions)

**Equipment Rental System - Percussions**

**Lanz P. Gabor**  
 Type: MEMBER  
 Log Out User  
 Guidelines  
 Categories  
 Current Rent  
 Rental History  
 Account Settings  
 © 2023 Z Solutions

## Percussions

Item Name: Drum Kit	Item Number: 000001
Start Date: 04/10/2023	End Date: 04/12/2023
Declared Value: Php 80000	Daily Rate: Php 1000
Reservation Fee: Php 0	Total: Php 3000

Available Rent

Item Name: Timpani	Item Number: 000009
Start Date: 04/10/2023	End Date: 04/12/2023
Declared Value: Php 50000	Daily Rate: Php 1000
Reservation Fee: Php 50	Total: Php 3000

Available on 06/10/2023 Rent

Figure 13b shows the actual screen shot for the twelfth form entitled “Percussions.” It consists of fourteen (14) icons, twelve (12) buttons, eight (8) text boxes, four (4) panels, four (4) text boxes for input, four (4) blocks of text two (2) images, one (1) vertical scroll bar, and one (1) progress bar.

Form 12 features the category for the percussive family of instruments that can be rented. Each button in the side menu bar will redirect the user to another form. In this form, the user can review the details of the instrument that they will be renting through details such as the item name, item number, declared value, daily rate, reservation fee (for reserving), and the total. The user can also choose the starting and ending date of their rent. If the user opted for reservation instead because the availability is still at a later date, the starting date will be disabled and will be filled with the availability date.

Figure 14a. Description of the Wireframe (Form 13 - Strings)

The wireframe shows a web application window titled "Equipment Rental System - Strings". On the left is a sidebar with a vertical list of links, each preceded by a square icon with an 'X'. The links are: "User's Full Name", "Type: Member/Admin", "Log Out User", "Guidelines", "Categories", "Current Rent", "Rental History", and "Account Settings". The main content area is titled "Strings" and contains three identical sections. Each section features a square placeholder with an 'X', a block of placeholder text, a radio button labeled "Available", and a "Rent" button. The first section has a white radio button, while the second and third have greyed-out radio buttons. The window includes standard OS controls (minimize, maximize, close) in the top right corner and a vertical scrollbar on the right side.

Figure 14a shows the wireframe for the thirteenth form entitled “Strings.” It consists of ten (10) icon placeholders, eight (8) buttons, seven (7) text boxes, four (4) panels, two (2) image placeholders, two (2) blocks of text, one (1) vertical scroll bar, and one (1) progress bar.

Figure 14b. Description of the Actual Screen Shot (Form 13 - Strings)

**Equipment Rental System - Strings**

**Lanz P. Gabor**  
**Type: MEMBER**  
 Log Out User  
 Guidelines  
 Categories  
 Current Rent  
 Rental History  
 Account Settings  
 © 2023 Z Solutions

## Strings

	<b>Item Name:</b> Violin <b>Start Date:</b> 04/10/2023 <b>Declared Value:</b> Php 25000 <b>Reservation Fee:</b> Php 0 <b>Available</b>	<b>Item Number:</b> 000001 <b>End Date:</b> 04/12/2023 <b>Daily Rate:</b> Php 250 <b>Total:</b> Php 750 <b>Rent</b>
	<b>Item Name:</b> Cello <b>Start Date:</b> 04/10/2023 <b>Declared Value:</b> Php 30000 <b>Reservation Fee:</b> Php 50 <b>Available on 06/10/2023</b>	<b>Item Number:</b> 000009 <b>End Date:</b> 04/12/2023 <b>Daily Rate:</b> Php 500 <b>Total:</b> Php 1500 <b>Rent</b>

Figure 14b shows the actual screen shot for the thirteenth form entitled “Percussions.” It consists of fourteen (14) icons, twelve (12) buttons, eight (8) text boxes, four (4) panels, four (4) text boxes for input, four (4) blocks of text two (2) images, one (1) vertical scroll bar, and one (1) progress bar.

Form 13 features the category for string family of instruments that can be rented. Each button in the side menu bar will redirect the user to another form. In this form, the user can review the details of the instrument that they will be renting through details such as the item name, item number, declared value, daily rate, reservation fee (for reserving), and the total. The user can also choose the starting and ending date of their rent. If the user opted for reservation instead because the availability is still at a later date, the starting date will be disabled and will be filled with the availability date.

Figure 15a. Description of the Wireframe (Form 14 - Woodwinds)

Equipment Rental System - Woodwinds

☐ User's Full Name  
☐ Type: Member/Admin  
☐ Log Out User

☐ Guidelines  
☐ Categories  
☐ Current Rent  
☐ Rental History  
☐ Account Settings

## Woodwinds

Available

Available on MM/DD/YYYY

Figure 15a shows the wireframe for the fourteenth form entitled “Woodwinds.” It consists of ten (10) icon placeholders, eight (8) buttons, seven (7) text boxes, four (4) panels, two (2) image placeholders, two (2) blocks of text, one (1) vertical scroll bar, and one (1) progress bar.

Figure 15b. Description of the Actual Screen Shot (Form 14 - Woodwinds)

**Equipment Rental System - Woodwinds**

**Woodwinds**

**User Information:**  
 Lanz P. Gabor  
 Type: MEMBER  
 Log Out User  
 Guidelines  
 Categories  
 Current Rent  
 Rental History  
 Account Settings  
 © 2023 Z Solutions

Instrument	Item Name	Item Number	Start Date	End Date	Declared Value	Daily Rate	Reservation Fee	Total	Status	Action
	Clarinet	000001	04/10/2023	04/12/2023	Php 25000	Php 250	Php 0	Php 750	Available	Rent
	Flute	000009	04/10/2023	04/12/2023	Php 30000	Php 250	Php 50	Php 750	Available on 06/10/2023	Rent

Figure 15b shows the actual screen shot for the thirteenth form entitled “Woodwinds.” It consists of fourteen (14) icons, twelve (12) buttons, eight (8) text boxes, four (4) panels, four (4) text boxes for input, four (4) blocks of text two (2) images, one (1) vertical scroll bar, and one (1) progress bar.

Form 14 features the category for woodwind family of instruments that can be rented. Each button in the side menu bar will redirect the user to another form. In this form, the user can review the details of the instrument that they will be renting through details such as the item name, item number, declared value, daily rate, reservation fee (for reserving), and the total. The user can also choose the starting and ending date of their rent. If the user opted for reservation instead because the availability is still at a later date, the starting date will be disabled and will be filled with the availability date.

Figure 16a. Description of the Wireframe (Form 14 - Miscellaneous)

The wireframe shows a web application window titled "Equipment Rental System - Miscellaneous". On the left is a sidebar with a list of navigation items, each preceded by a square icon placeholder with an 'X'. The items are: "User's Full Name", "Type: Member/Admin", "Log Out User", "Guidelines", "Categories", "Current Rent", "Rental History", and "Account Settings". The main content area is titled "Miscellaneous" and features a progress bar at the top. Below the title, there are two identical placeholder blocks. Each block contains a square image placeholder with an 'X', a block of text (represented by multiple lines of small text), a radio button, and a "Rent" button. The first block has the text "Available" next to the radio button, and the second block has the text "Available on MM/DD/YYYY" next to the radio button. A vertical scrollbar is located on the right side of the main content area.

Figure 16a shows the wireframe for the fifteenth form entitled “Miscellaneous.” It consists of ten (10) icon placeholders, eight (8) buttons, seven (7) text boxes, four (4) panels, two (2) image placeholders, two (2) blocks of text, one (1) vertical scroll bar, and one (1) progress bar.

Figure 16b. Description of the Actual Screen Shot (Form 15 - Miscellaneous)

The screenshot displays the 'Miscellaneous' form within the 'Equipment Rental System'. The interface includes a sidebar on the left with user information and navigation options, and a main content area with two item listings.

**Left Sidebar:**

- User: Lanz P. Gabor
- Type: MEMBER
- Log Out User
- Guidelines
- Categories
- Current Rent
- Rental History
- Account Settings
- © 2023 Z Solutions

**Main Content Area:**

### Miscellaneous

Item Image	Item Name	Start Date	End Date	Declared Value	Reservation Fee	Daily Rate	Total	Status	Action
	Speakers	04/10/2023	04/12/2023	Php 7500	Php 0	Php 500	Php 1500	Available	Rent
	Amplifier	04/10/2023	04/12/2023	Php 25000	Php 50	Php 500	Php 1500	Available on 06/10/2023	Rent

Figure 16b shows the actual screen shot for the fifteenth form entitled “Miscellaneous.” It consists of fourteen (14) icons, twelve (12) buttons, eight (8) text boxes, four (4) panels, four (4) text boxes for input, four (4) blocks of text two (2) images, one (1) vertical scroll bar, and one (1) progress bar.

Form 15 features the category for miscellaneous items that can be rented. Each button in the side menu bar will redirect the user to another form. In this form, the user can review the details of the instrument that they will be renting through details such as the item name, item number, declared value, daily rate, reservation fee (for reserving), and the total. The user can also choose the starting and ending date of their rent. If the user opted for reservation instead because the availability is still at a later date, the starting date will be disabled and will be filled with the availability date.