


Project – External Documentation	
COMP7094 COMP7094001 Multimedia Programming Foundation	
Even Semester Year <2023/2024>	

- **Project Title**

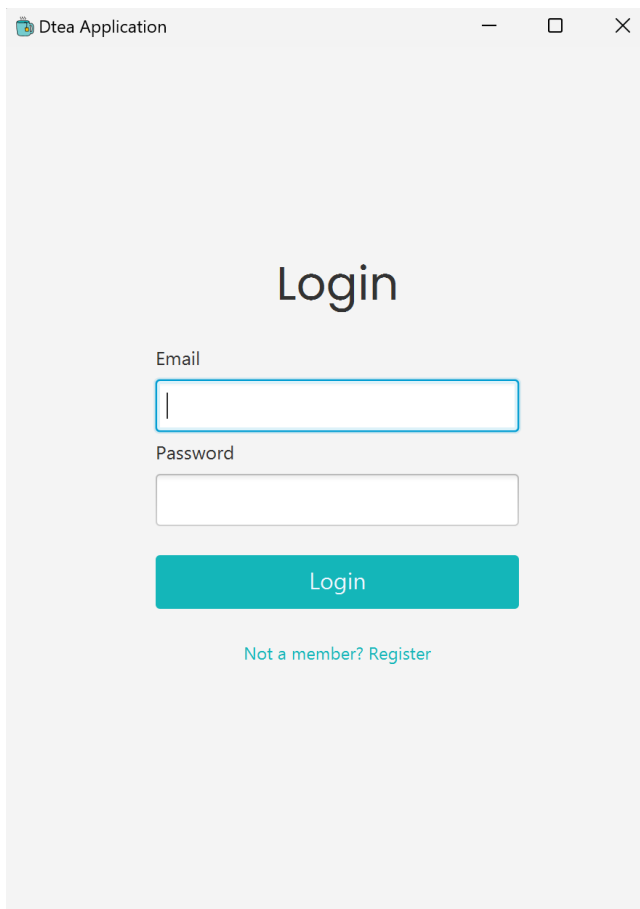
DTea

- **Introduction**

DTea is a comfy place to enjoy many kinds of tea in a calm and chill setting, making it the perfect spot to unwind and sip on your favorite brews. DTea is a newly opened coffee shop so they only sell **five kinds of tea**

- **Report / Documentation**

1. **Login Window**

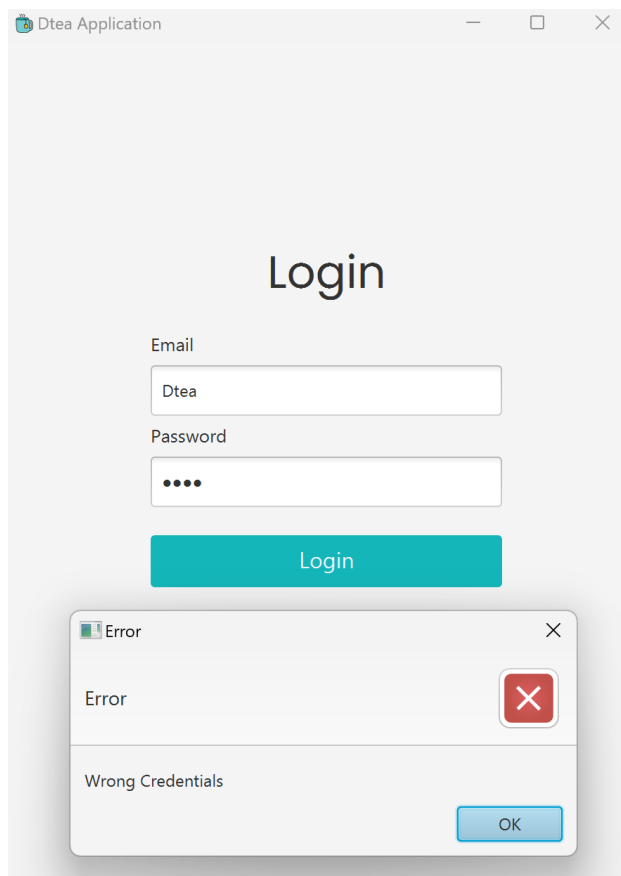


The screenshot shows a window titled "Dtea Application" with standard Windows window controls (minimize, maximize, close). The window content is a login form with the following elements:

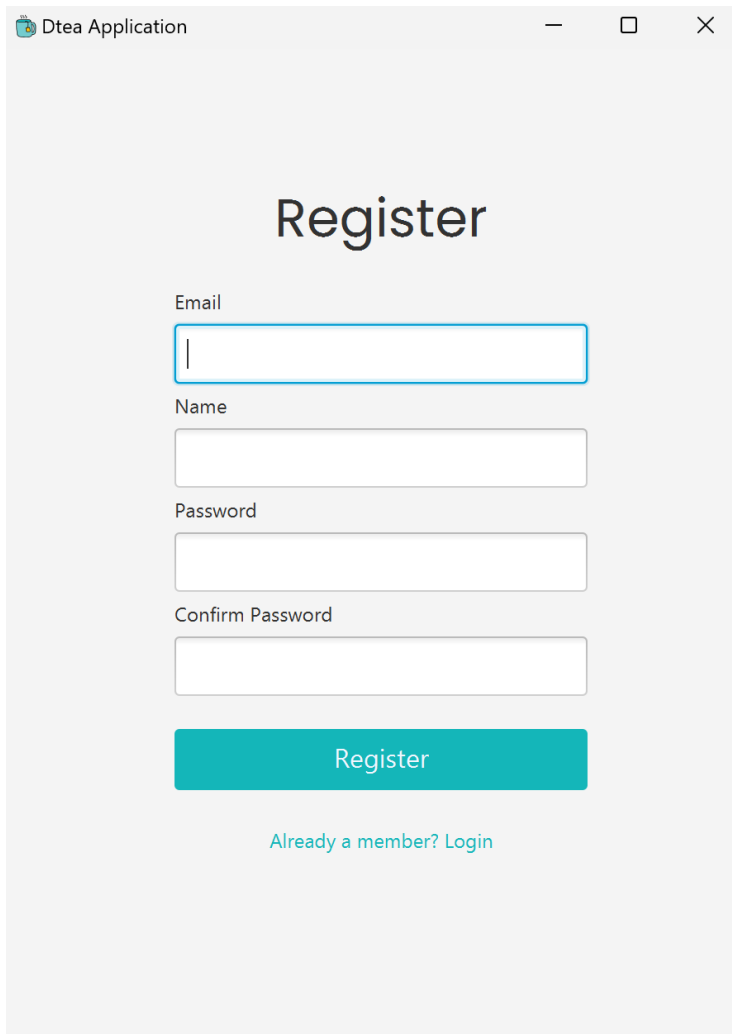
- A large "Login" heading in the center.
- An "Email" label above a text input field.
- A "Password" label above a text input field.
- A teal "Login" button.
- A link "Not a member? Register" below the login button.

The application will **display** a **Login Window** with the following **components**:

- **Label** for the title, email and password.
- **TextField** to input the email.
- **PasswordField** to input the password.
- **Button** for the login button and register button.
 - **Login button.** The application will **validate** the form based on following requirements:
 - Validate **email** must be **filled**.
 - Validate **password** must be **filled**.
 - Validate **credential** (email & password) that user input is **valid**.
 - If the user input “**admin**” for the email and “**admin123**” for the password, the user will be logged in as admin. The application will **close the Login Window** and **open Admin Window**.
 - Other than that, the user will be logged in as **customer**. The application will **close the Login Window** and **open Welcome Customer Window**.
 - **Register button.** The application will **open the Register Window**.
- **Alert** for every invalid validation as shown below:



2. Register Window

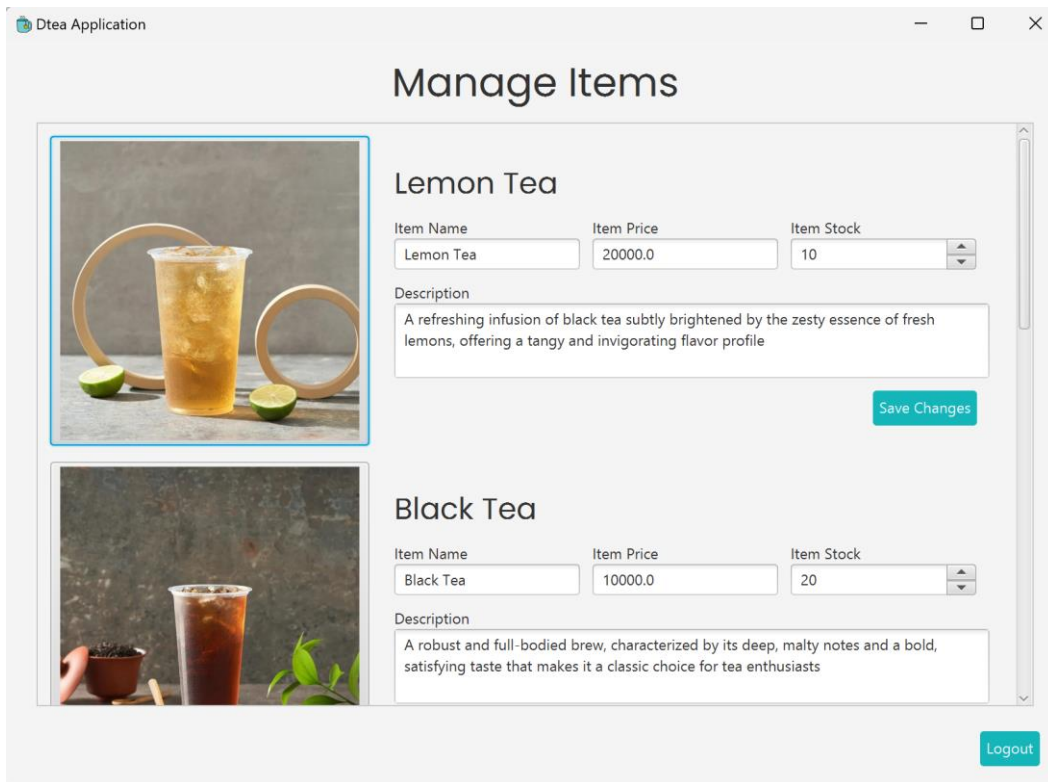


The application will **display a Register Window** for register new user data with the following **components**:

- Label for the title, email, name, password, and confirm password.
- TextField to input the email and name.
- PasswordField to input the password and confirm password.
- Button for login button, and register button.
 - Login button. The application will open the Login Window
 - Register button. The application will validate the form based on following requirements:
 - Validate email must be filled.
 - Validate email must only have one '@'.
 - Validate email must end with '.com'.
 - Validate email must be unique, have not been used for any registration before.
 - Validate name must be filled.

- Validate password must be filled.
 - Validate confirm password must be filled.
 - Validate confirm password must be matched with the password.
 - After all validation succeed, the application will save the data in the system and open the Login Window.
- **Alert** for every invalid validation.

3. Admin Window





The screenshot shows the 'Dtea Application' window with the title 'Manage Items'. It contains two item management sections:

Item Name	Item Price	Item Stock	Description
Lemon Tea	20000.0	10	A refreshing infusion of black tea subtly brightened by the zesty essence of fresh lemons, offering a tangy and invigorating flavor profile
Black Tea	10000.0	20	A robust and full-bodied brew, characterized by its deep, malty notes and a bold, satisfying taste that makes it a classic choice for tea enthusiasts

Each item section includes a photo of the tea, a 'Save Changes' button, and a 'Logout' button at the bottom right.

Dtea Application

Manage Items

Apple Tea

Item Name

Item Price

Item Stock

Apple Tea

25000.0

20

Description

A delightful infusion blending the sweetness of ripe apples with the comforting warmth of tea, creating a fruity and aromatic beverage that evokes the essence of a crisp autumn day

Save Changes

Item Name

Item Price

Item Stock

Honey Tea

30000.0



20

Description

A soothing concoction that combines the natural sweetness of honey with the mellow tones of tea, resulting in a comforting and mildly sweetened drink that is perfect for relaxation

Logout

Dtea Application

Manage Items

Item Name

Item Price

Item Stock

Honey Tea

30000.0

20

Description

A soothing concoction that combines the natural sweetness of honey with the mellow tones of tea, resulting in a comforting and mildly sweetened drink that is perfect for relaxation

Save Changes

Item Name

Item Price

Item Stock

Milk Tea

35000.0

0

Description

A rich and creamy fusion of tea and milk, offering a harmonious balance of bold tea flavors and the velvety smoothness of milk, creating a comforting and indulgent beverage enjoyed worldwide

Save Changes

Logout

The application will **display** the **Admin Window** for the admin to update the item's name, item's price, item's stock, and item's description. The list of **component** are listed below:

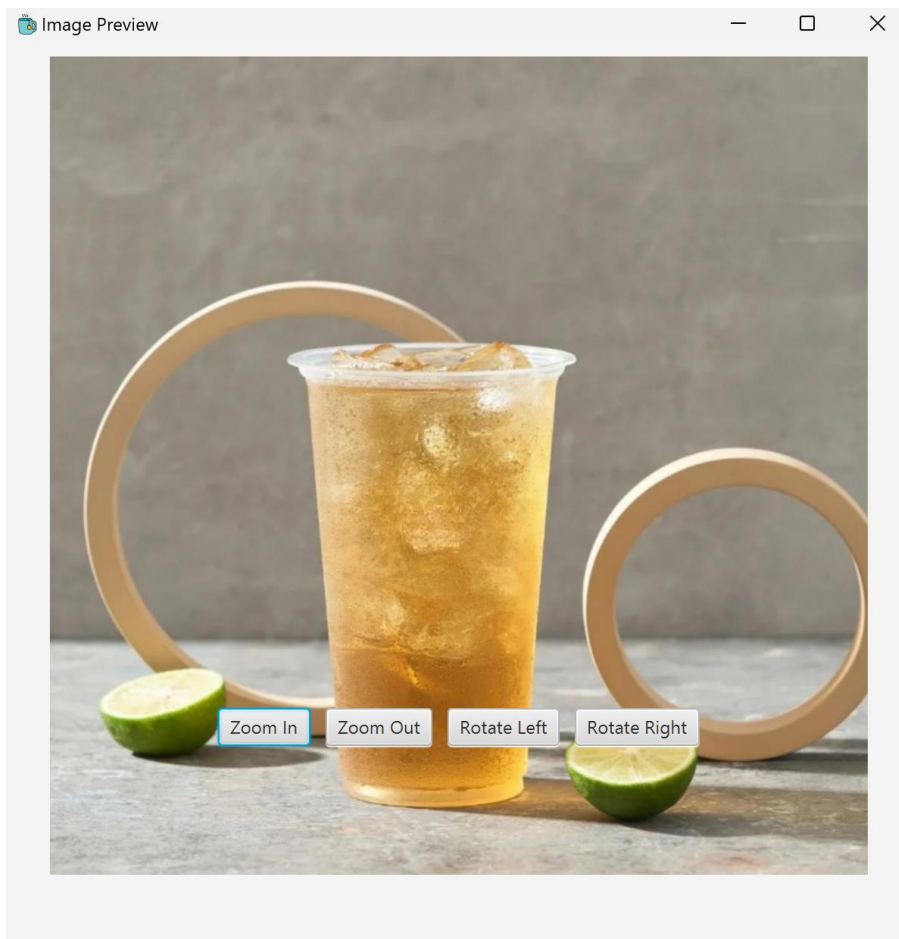
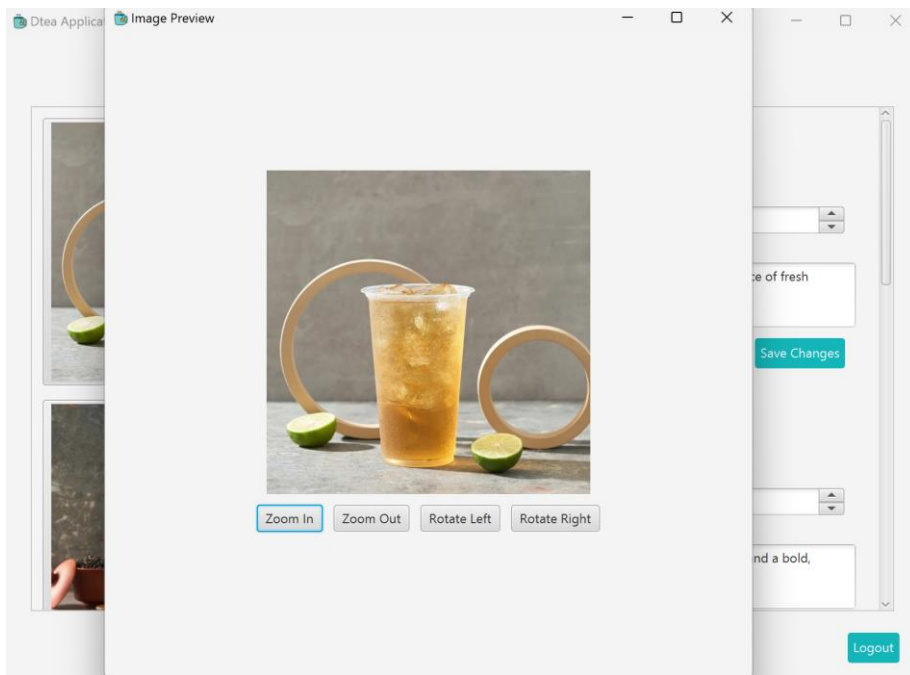
- **Label** for the title, item name, item price, item stock, and item description.
- **ImageView** to display item's image.

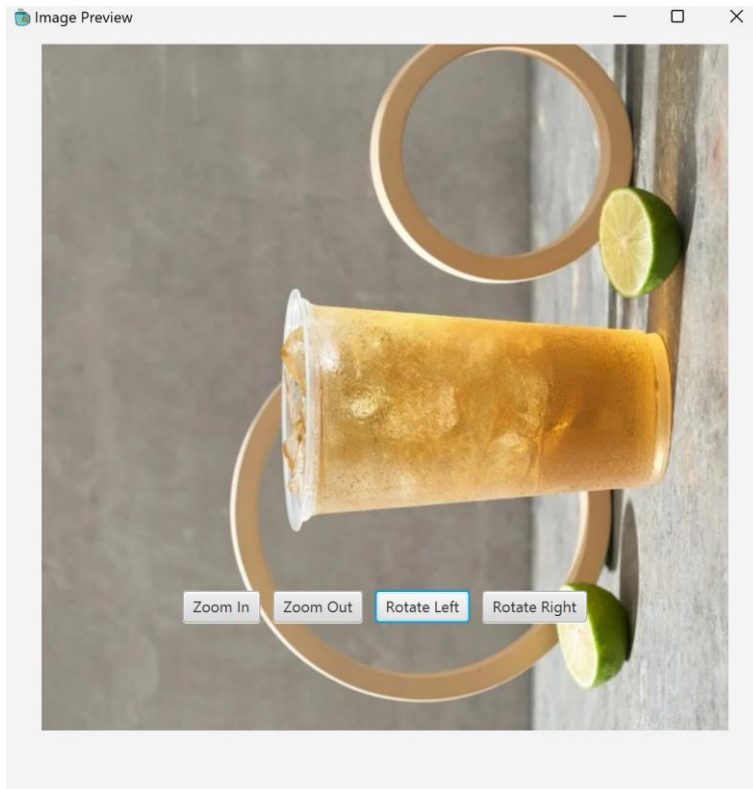
- **TextField** to input item's name and item's price.
- **TextArea** to input item's description.
- **Spinner** to input item stock.
- **Button** for logout button and save changes button.

The **descriptions** for this window are listed below:

- **Display** the **images** for each item using **Image View**.
- **Display** all of the **current item's name, item's price, item's stock, and item's description** when the **Admin Window** is opened.
- Set the **Spinner** for each **item's stock** with **minimum** value is **0**, **maximum** value is **1000**, and the **step** is **1**.
- If the user **clicks** the **save changes button**, the application will:
 - Validate **item's name** must **be filled**.
 - Validate **item's price** must **be numeric (int or float)**.
 - Validate **item's price** must **be at least 10000**.
 - Validate **item's stock** must **be at least 1**.
 - Validate **item's description** must **be at least 10 characters**.
 - After all validation **succeed**, the application will **update** the item data.
- **Alert** for every invalid validation.
- If the user **clicks** the **item's image**, the application will **open** the **View Image Window** to show the selected item image.
- If the user **clicks** the **logout button**, the application will close the Admin Window and **open** the **Login Window**.

4. View Image Window





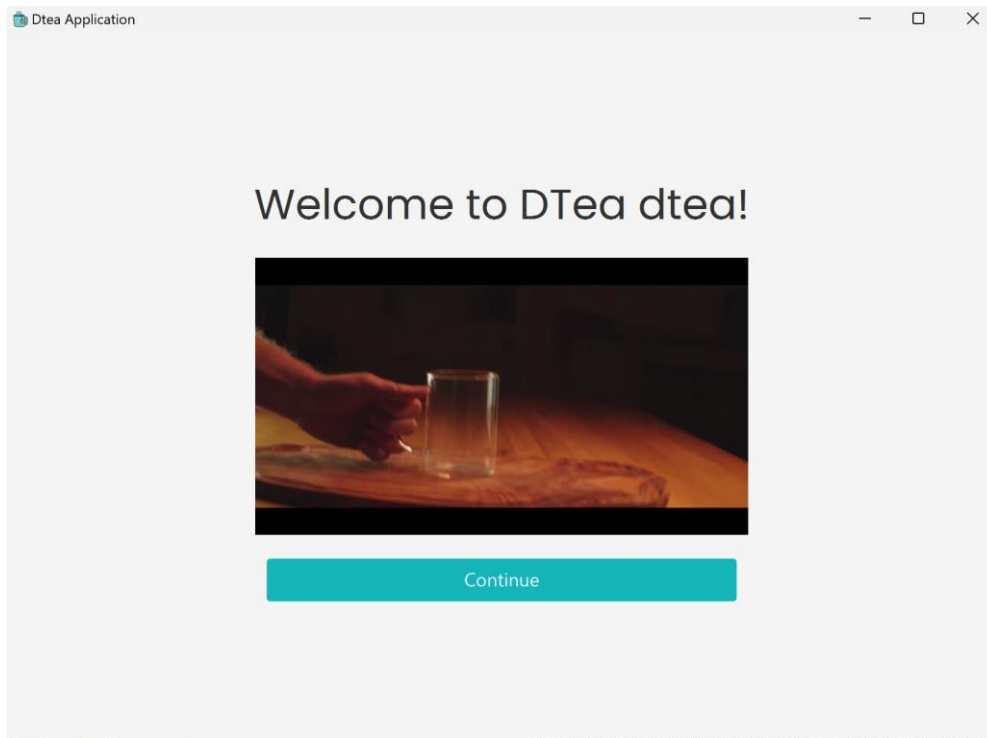
The application will **display** the **View Image Window** when admin clicked view image button from Master Window. The list of **component** are listed below:

- **Button** for zoom in button, zoom out button, rotate left button, and rotate right button.

The **description** for this window are listed below:

- **Display** the **image** of the item depends on what button clicked from Master Window.
- If the user **clicks** the **zoom in button**, the image will be **zoomed in** to **1.2 times larger** from its original scale.
- If the user **clicks** the **zoom out button**, the image will be **zoomed out** to **0.8 times smaller** than its original scale.
- If the user **clicks** the **rotate left button**, the image will be **rotated left** to **-90 degrees**.
- If the user **clicks** the **rotate right button**, the image will be **rotated right** to **90 degrees**.

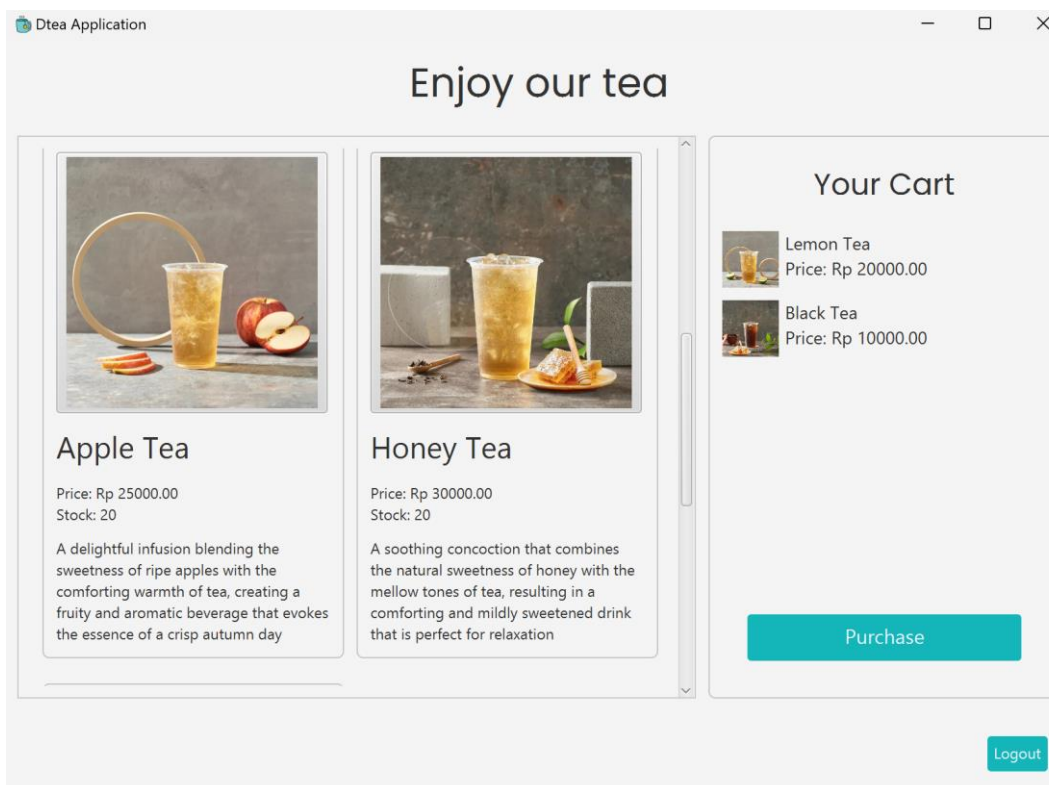
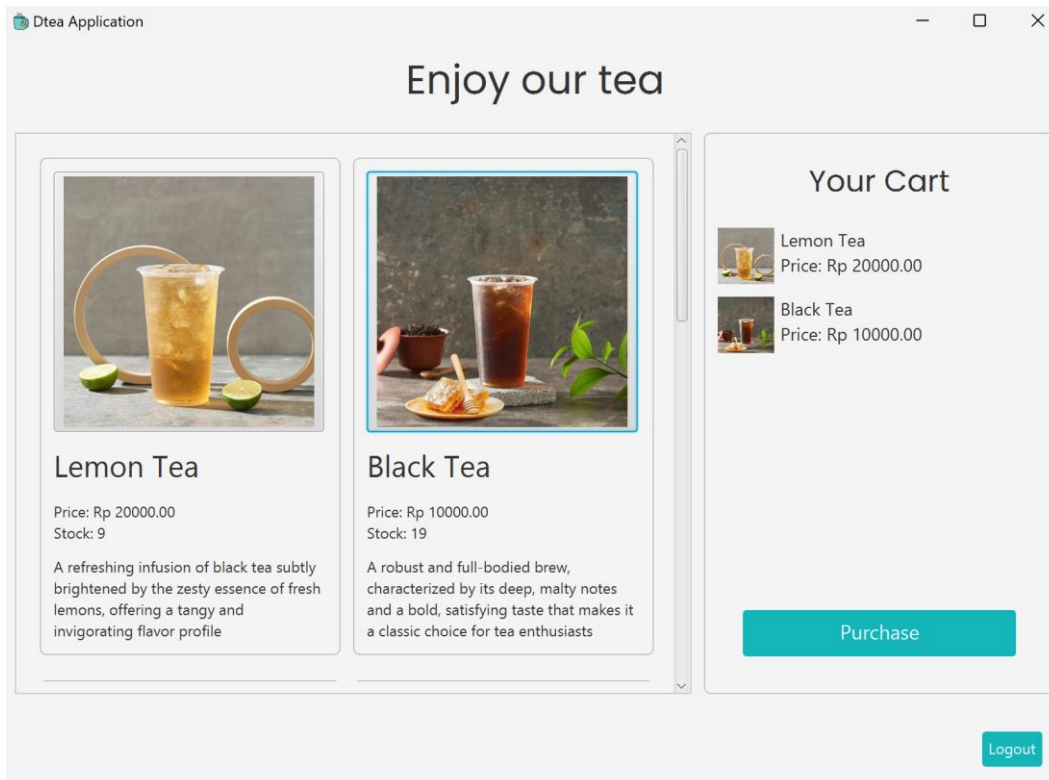
5. Welcome Customer Window

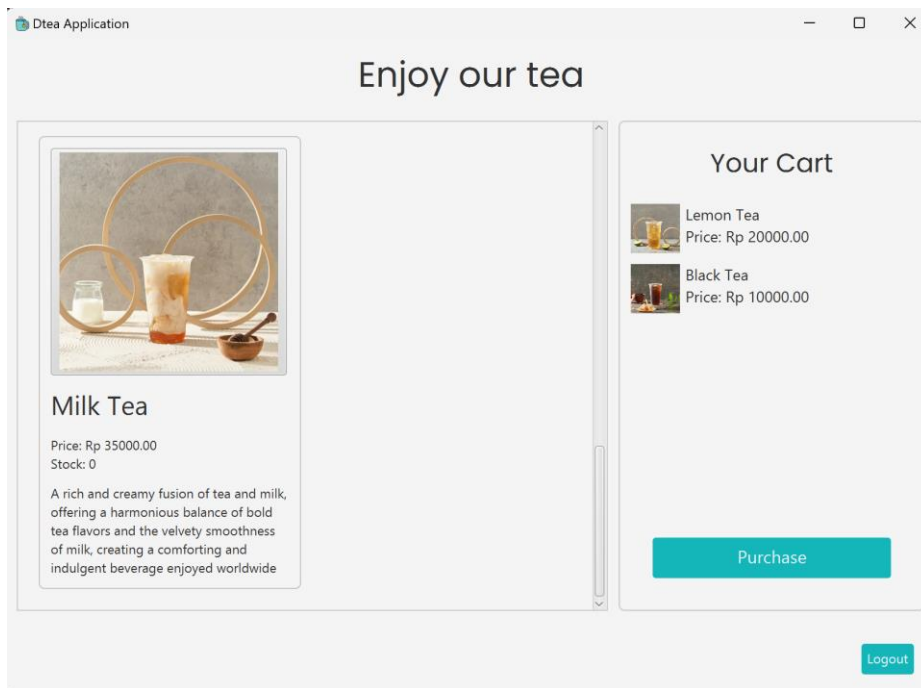


The application will **display** the **Welcome Customer Window** when users log in from **Login Window**. The list of **components** are listed below:

- **Label** for the title.
- **MediaView** to display promotional video using **video.mp4** in the assets folder. The video must be **repeated** after the video ends.
- **Continue button**. The application will open the **Catalogue and Cart Window** and **stops the video from playing**.

6. Catalogue and Cart Window





The application will **display** the **Catalogue and Cart Window** when users **clicked continue button** from **Welcome Customer Window**. The list of **component** are listed below:

- **Label** for the title, item's name, item's price, item's stock, and item's description.
- **Button** for purchase button, logout cart button.
- **ImageView** to display item's image.
- **MediaPlayer** to play piano music.

The **descriptions** for this window are listed below:

- **Display** the logged on **user's cart**. The user's cart is saved in the system, so when the user re-login, the user will have the same cart.
- **Display** the **images** for each item using **Image View**.
- **Display** the **item's name, item's price, item's stock, item's description** based on the item list in the system.
- **Play** the **audio** using **piano.mp3** music in the assets folder while users are on **Catalogue** and **Cart** window.
- Each item's image on the catalogue section has the following effect when **dragged** by mouse:
 - If the user drags an item inside the cart, then:
 - Validate if the item's stock must be greater than 0 and not in the user's cart. Otherwise, the item cannot be added to the cart.
 - If the item's has stock and not in the user's cart, the application will:

- Add the item to the user's cart, reduce the item's quantity by 1 and save it to the system.
- If the user clicks the **Purchase** button, the application will **clear** the user's cart.
- If the user **clicks** the **item's image**, the application will **open** the **View Image Window** to show the selected item's image.
- If the user **clicks** the **logout menu**, the application will close the **Catalogue and Cart Window** and **open** the **Login Window**.
- **Alert** for every invalid validation.

• Reference

- Bluejack Session 4 Form Validation
- LAB MPF Class Session 8 – Image Manipulation
- https://youtu.be/7NB_UM09Xs8?si=Aq0GB1JbtgOfh-6
- <https://youtu.be/O-IbO6w4Yiw?si=SZCO2JUdI-KXlw68>

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