

COMP132 PROJECT

E-NET

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The name of the application is E-NET. It is a social media platform where users can interact with GUI components and perform several actions.

Please see [doc/index.html](#) for complete documentation of the project.

PACKAGES

There are four packages

Content

- Contains
 - **Content.java**
 - Concrete class for creating content

Main

- Contains;
 - **Main.java**
 - Concrete class for launching the app
 - Has launchApp() method
- Controls the flow of the app with public static boolean variables;

```
/*
 * Enter a infinite loop to check whether any type of page is initialized.
 */
while(true) {
    /**
     * If Login Page is opened then make it visible and check whether it is opened every frame with isLoginPageOpen
     */
    while(isLoginPageOpen || (HomePage.returnLoginPage && !HomePage.returnProfilePage && !HomePage.returnHomePage)) {
        if(HomePage.returnLoginPage) {
            /**
             * If HomePage.returnLoginPage is true then that means the user wanted to returned Profile Page
             * Assign it to false since user does not request to return Profile Page in every frame.
             */
            HomePage.returnHomePage = false;
            HomePage.returnProfilePage = false;
            HomePage.returnGroupPage = false;
            loginpage.setVisible(true);
            HomePage.returnLoginPage = false;
        }
        isLoginPageOpen = loginpage.isVisible();
        System.out.println("");
    }
}
```

```
/*
 * while(isHomePageOpen || (HomePage.returnHomePage && !HomePage.returnLoginPage && !HomePage.returnProfilePage)) {
 * if(HomePage.returnHomePage) {
 * /**
 * * If HomePage.returnHomePage is true then that means the user wanted to returned Home Page
 * * Assign it to false since user does not request to return Home Page in every frame.
 * */
 * HomePage.returnLoginPage = false;
 * HomePage.returnProfilePage = false;
 * homepage.setVisible(true);
 * HomePage.returnHomePage = false;
 * }
 * isHomePageOpen = homepage.isVisible();
 * System.out.println("");
 */
}
```

```
User profilpage = new User(loginpage.setLoggedUser());
isProfilePageOpen = profilpage.isVisible();

/**
 * Check Profile Page is still open every frame with isProfilePageOpen.
 */
while(isProfilePageOpen || (HomePage.returnProfilePage && !HomePage.returnLoginPage && !HomePage.returnHomePage)) {
    if(HomePage.returnProfilePage) {
        /**
         * If HomePage.returnProfilePage is true then that means the user wanted to returned Profile Page
         * Assign it to false since user does not request to return Profile Page in every frame.
         */
        HomePage.returnLoginPage = false;
        HomePage.returnHomePage = false;
        profilpage.setVisible(true);
        HomePage.returnProfilePage = false;
        HomePage.returnGroupPage = false;
    }
    isProfilePageOpen = profilpage.isVisible();
    System.out.println("");
}
```

Dialog

- Contains;
 - **CreateContentDialog**
 - A concrete class for creating content, it extends JDialog, implements ActionListener
 - Has createContent() method which creates a new content with given input by the user
 - **EditContentDialog**
 - A concrete class for editing selected content, it extends JDialog, implements ActionListener
 - Has an implementation in ActionListener attached to apply button that applies the changes on selected content
 - **GroupDialog**
 - A concrete class for managing the groups, it extends JDialog, implements ActionListener, MouseListener
 - In this class, any instances of *EditGroupDialog()* & *CreateGroupDialog()* can be instantiated.
 - **CreateGroupDialog**
 - A concrete class for creating a group, it extends JDialog, implements ActionListener
 - Has a createGroup() method which initializes a new instance of GroupPage() then assign a creator
 - **EditGroupDialog**
 - A concrete class for editing groups, it extends JDialog, implements ActionListener, MouseListener
 - Has refreshList() method which updates the lists with given input by the user
 - **ProfileDialog**
 - A concrete class for editing user profiles, it extends JDialog, implements ActionListener
 - Has applyContent() method which updates the changes on the selected user's profile page
 - **SignupDialog**
 - A concrete class for signing up a new user, it extends JDialog, implements ActionListener
 - Has createUser() method which creates a new User with provided input by the user.

Pages

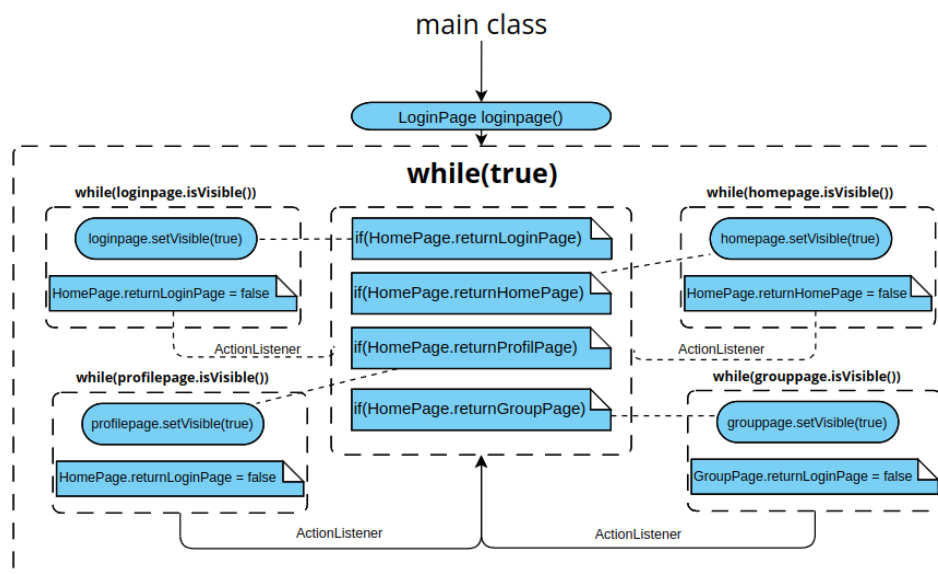
- Contains;
 - **Page**
 - An Abstract class extends JFrame
 - Has an abstract method refreshContent(). Since certain components of pages can be editable, they need to be updated
 - **HomePage**
 - A concrete class of Page for creating a homepage and displaying it. It extends Page, implements MouseListener, ActionListener
 - Overrides **refreshContent()** method
 - Has *public static boolean* control variables which are vital for the project
 - **returnHomePage**: True when the user requests to go home page, otherwise false

- **returnLoginPage:** True when the user requests to go login page, otherwise false
 - **returnProfilPage:** True when the user requests to go to any profile page, otherwise false
 - **returnGroupPage:** True when the user requests to go to any group page, otherwise false
- **GroupPage**
 - A concrete subclass of Page for creating a group and displaying the page of that group
 - **LoginPage**
 - A concrete subclass of Page for creating the login page and displaying it. It extends Page, implements ActionListener
 - It has a crucial method which is public **getLoggedUser()**, it returns which user logged in and it is required information for HomePage in order to display contents of logged in user
 - Overrides **refreshContent()** method
 - **User**
 - A concrete subclass of Page for creating a user and displaying its page. It extends Page, implements ActionListener
 - Overrides refreshContent() method
 - Has two constructors that are shown below. First one is for setting a visual page of the Profile, the second one is for the initialization of the user except for GUI.

```
public User(User currentUser) {
    super("Profil Page");
}
```

```
public User(String nickname, String password, String name, String surname, int age, String email, boolean isPremium, String path, String hobbies) {
    super("Profil Page");
}
```

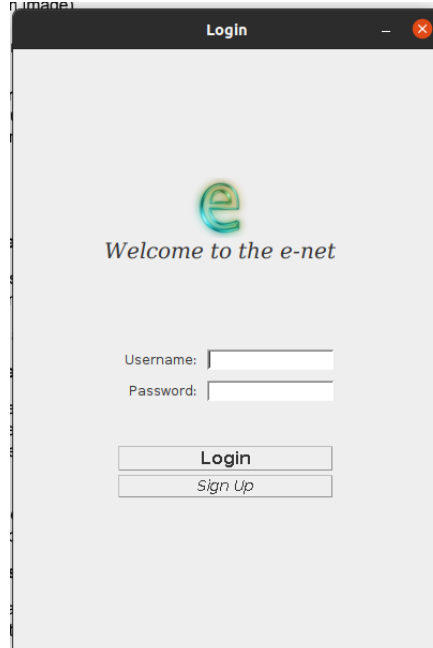
FLOW OF THE APPLICATION



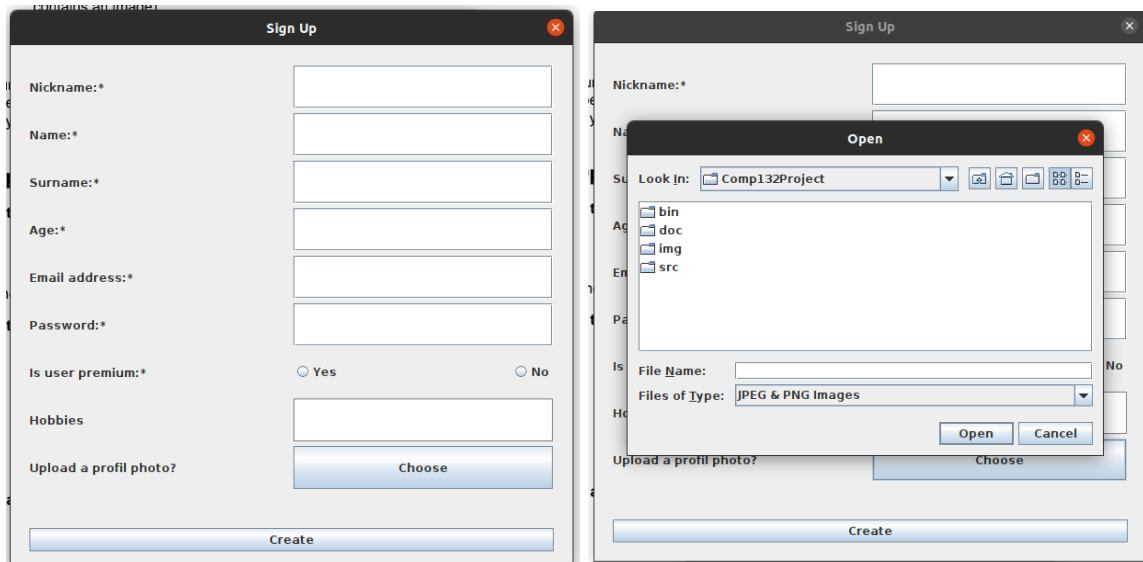
EXECUTION STEPS

Login Page:

- Sign in existing users with the nickname and password

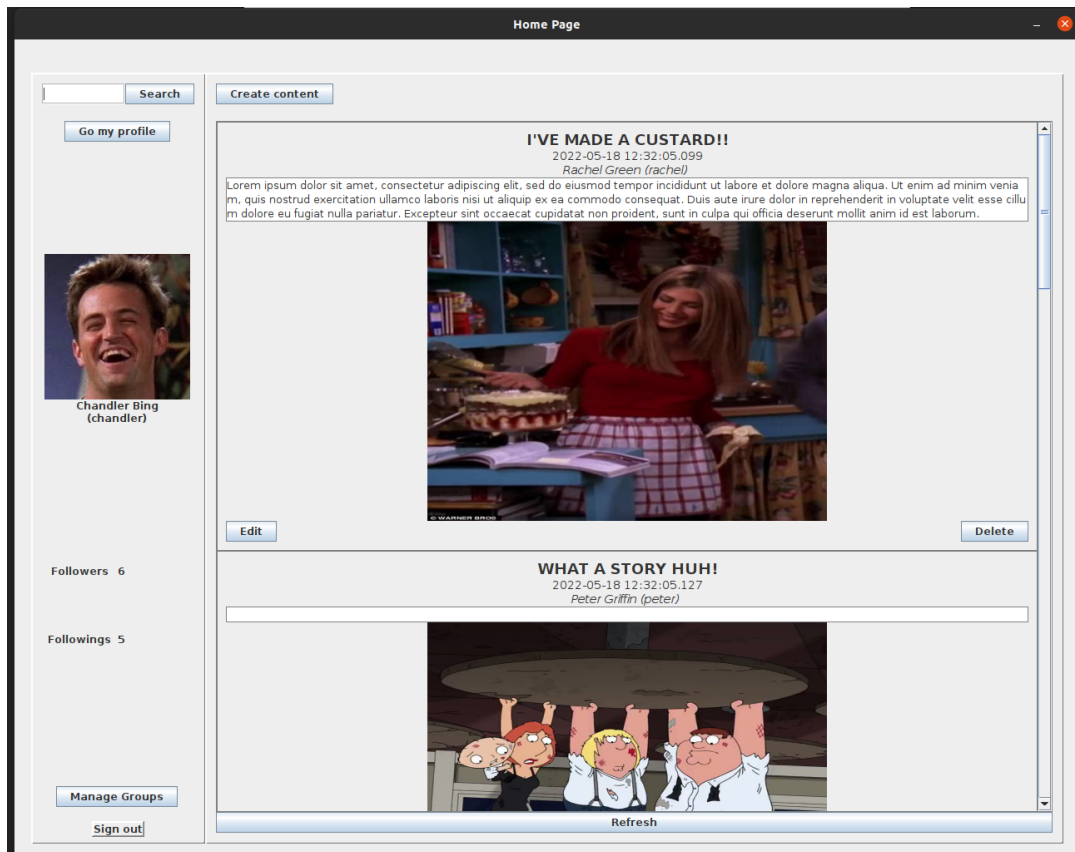


- Sign up for new users.

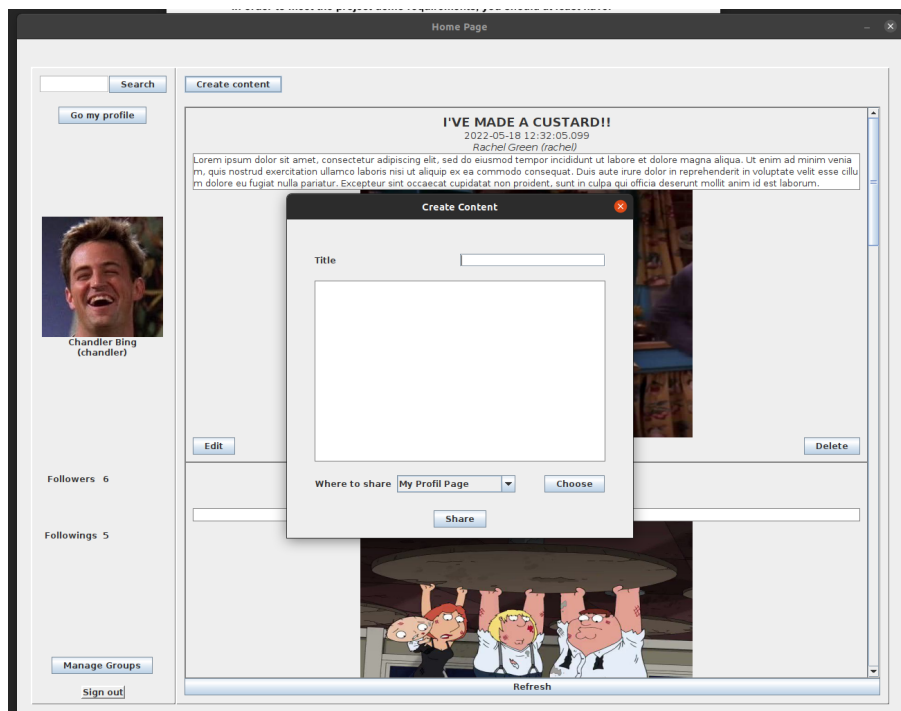


Home Page:

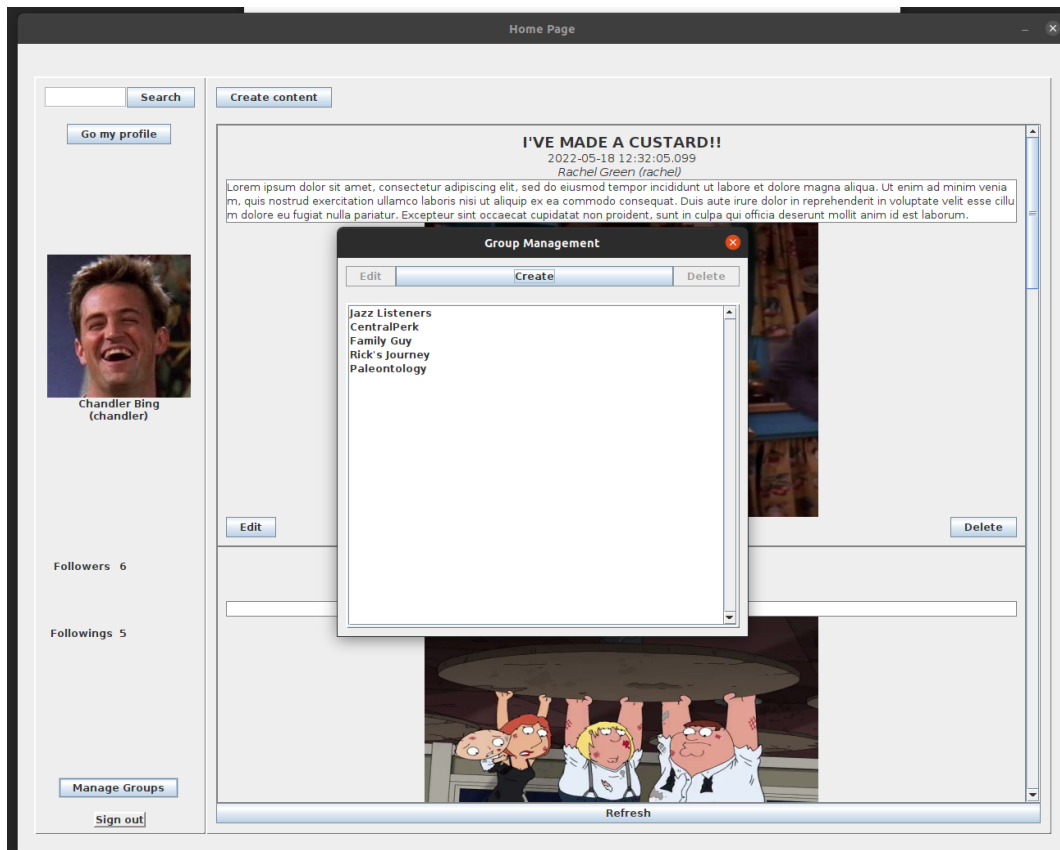
GENERAL VIEW



Creating content



Group Management



Editing selected group

Edit Group

Change Name to:

Change Country to:

Change Hobbies to:

Members

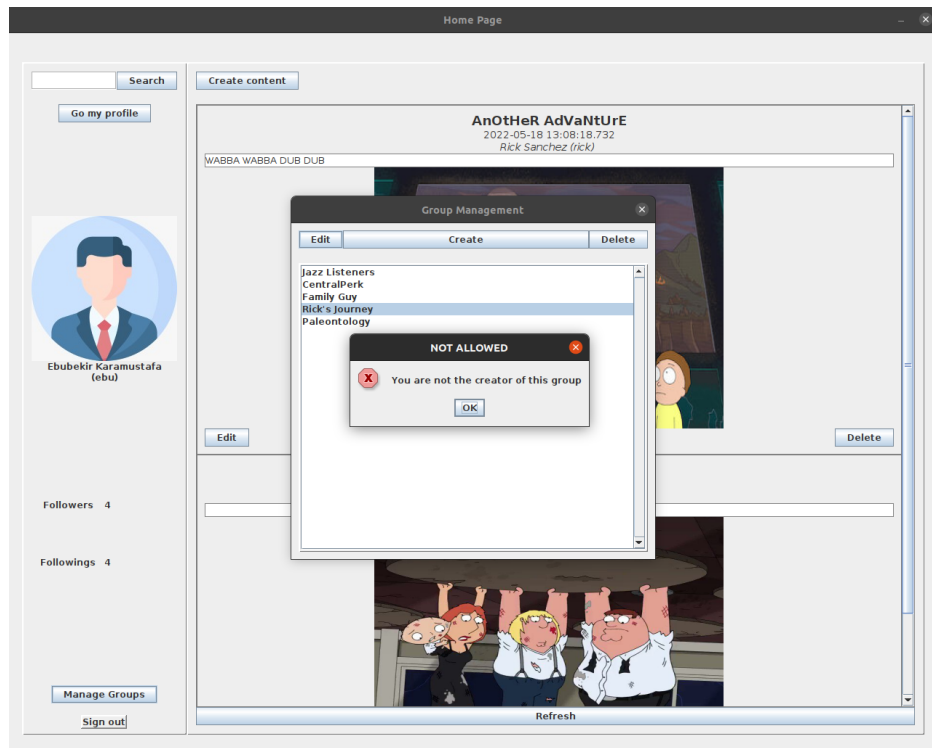
Ebubekir
Neo
Margaret
Rick

Nonmembers

Chandler
Joey
Phoebe
Ross
Rachel
Monica
Morty
Peter

Add Remove Apply

Authority check when editing a group



Profile Page

GENERAL VIEW



Editing profile page

The screenshot shows a web browser window titled "Profil Page". The main content area displays a profile for "Ebubekir Karamustafa (ebu)". Overlaid on this is a dialog box titled "Edit Profile" with a close button (X). The dialog contains several input fields for editing profile information:

- Change name to: [text input]
- Change surname to: [text input]
- Change email to: [text input]
- Change password to: [text input]
- Change hobbies to: [text input]
- Change image to: [Choose button]

At the bottom of the dialog is an "Apply" button. Below the dialog, the profile information is visible again, including a profile picture, the name "Ebubekir Karamustafa (ebu)", the email "ekaramustafa20@ku.edu.tr", and a "Premium" status. There are "Edit" and "Delete" buttons for the profile. At the very bottom, a banner for "JAZZ LEGENDS: MILES DAVIS" is displayed with a timestamp "2022-05-18 13:13:46 205".

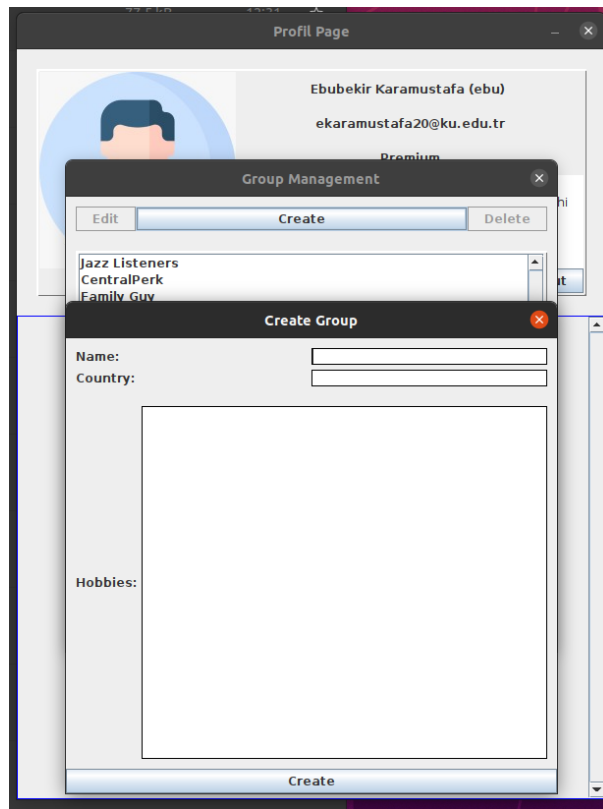
Group Management in Profile Page

The screenshot shows the same "Profil Page" web browser window. The "Edit Profile" dialog is no longer present. Instead, a "Group Management" dialog box is overlaid. This dialog has three buttons at the top: "Edit", "Create", and "Delete". The "Create" button is highlighted. Below the buttons is a list of groups:

- Jazz Listeners
- CentralPerk
- Family Guy
- Rick's Journey
- Paleontology

The background shows the profile information for "Ebubekir Karamustafa (ebu)" and the "JAZZ LEGENDS: MILES DAVIS" banner at the bottom.

Creating a group



NOTES

- Even though MiG Layout Java Layout is imported, it is never used.
- For complete detailed documentation, please see
~/Comp132Project/doc/index.html

REFERENCES

<https://www.miglayout.com/>

<https://docs.oracle.com/javase/7/docs/api/javax/swing/JFileChooser.html>

<https://www.oracle.com/technical-resources/articles/java/javadoc-tool.html>

<https://docs.oracle.com/javase/tutorial/uiswing/layout/visual.html>