



UNIVERSITÀ DI PISA

Computer Engineering

Large-Scale and Multi-Structured Databases

Gameflows: MANUAL OF USAGE

TEAM MEMBERS (Group 1):

Fabrizio Lanzillo

Riccardo Sagramoni

Luca Tartaglia

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GitHub Release: <https://github.com/RiccardoSagramoni/gameflows-social-network/releases>

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1. Introduction

1.1 How to launch Gameflows application

To launch the application the user must follow these steps:

1. The computer on which to launch the application should reside in or be connected through VPN to the UNIPI internal network to allow the connection to the databases used by the application.
2. The application graphical user interface (GUI) can be started by launching the application from the “Main” class (which is defined in the “gameflows\src\main\java\it\unipi\di\inginf\lsdb\gameflows\Main.java” file).
3. Once the graphical user interface has started, the application functionalities can be used by registering as a new user or by logging in with one of the credentials located in the file users-800.json (using *username* and *password* fields).

2. User GUI

Below are shown all the windows comprising the application’s graphical user interface, along with the offered functionalities:

2.1. Login Page



Fig.1 Login Page

In this page the user can choose to login as administrator or user. As third option, if is not registered yet, the user can sign up via the “Sign Up” Button.

2.2. Sign Up Page

If a user presses the “Sign Up” button in the login page, the “Sign Up page” will appear.

He can register on Gameflows filling all the fields, shown below in the figure.

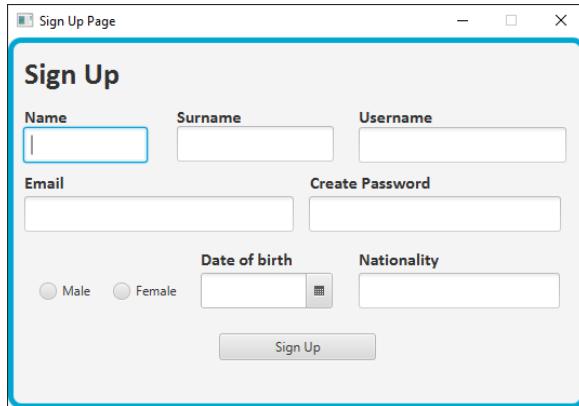


Fig.2 Sign Up Page

2.3. User Home Page

Once the user has logged in, he will see the “User Home page”.

All the functionalities are described above.

The screenshot shows the "Gameflows User Home" interface. On the left, a sidebar lists navigation options: "View All Communities", "View Followed Communities", "View Suggested Communities", and "Logout". The main area displays a grid of nine cards, each representing a videogame community with icons for a globe and a controller, and the names "Fallout", "BioShock", "StarCraft II: Wings of ...", "The Sims 3", "Empire Earth", and "Battlefield 3". At the bottom right of the grid are "Prev" and "Next" navigation buttons. A blue callout box labeled "Search Communities" points to the search bar at the top right. Another callout box labeled "All Communities" points to the "View All Communities" button. A third callout box labeled "Followed Communities" points to the "View Followed Communities" button. A fourth callout box labeled "Suggested Communities" points to the "View Suggested Communities" button. A fifth callout box labeled "Most Active Communities" points to the "Logout" button. A sixth callout box labeled "Logout" points to the "Logout" button. A seventh callout box labeled "Videogame Community Pane" points to the grid of community cards. An eighth callout box labeled "Prev&Next" points to the "Prev" and "Next" buttons.

Fig.3 User Home Page

2.3.1 Most Active Communities results

The screenshot shows the Gameflows User Home interface. On the left, a sidebar has links for 'View All Communities', 'View Followed Communities', 'View Suggested Communities', and a section for 'View best communities by likes in a given period' with date inputs (04/05/2020 to 07/06/2021) and a 'Confirm Dates' button. A success message 'Research Successfully Executed!' is displayed. On the right, a main panel titled 'Search a Videogame Community' shows three results in cards:

Videogame's name:	Number of Likes:
waifubartending	55201
3kliksphilip	32188
ManorLords	23557

Fig.4 Most Active Communities results

2.4. User Videogame Community Page

If the user clicks on a videogame item displayed on the pane, he will switch to its videogame community page.

Below are described all the functionalities.



Fig.5 User Community Page

2.5. Write Post Page

Selecting “write post” on the community page the user can write his own post. He must fill the title and text fields, and then press the button “create post” to insert his post in the database.

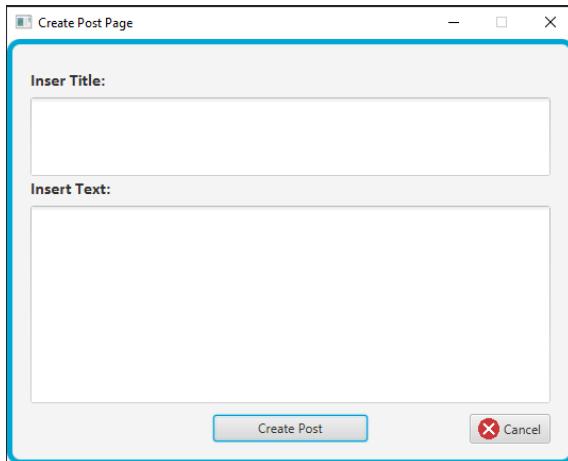


Fig.6 Write post page

If the user will press the button “cancel” he will come back to the videogame community page, without any changes.

2.6. Videogame Info Page

Selecting “View Info” on the community page will appear the “Videogame community info page”, which contains all the information on that specific videogame, such as name, game modes, genres, developers and so forth.

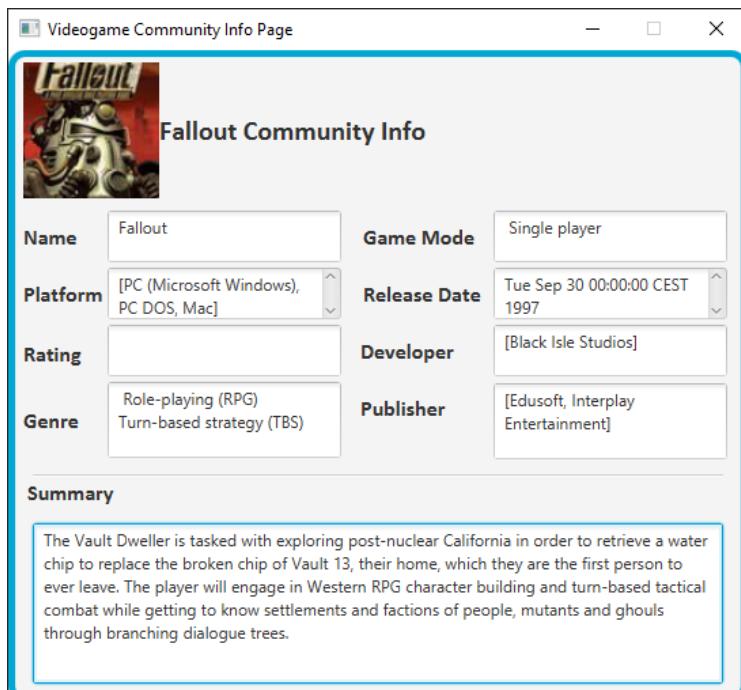


Fig.7 Videogame Community Info page

2.7. Post Page

If the user clicks on a post item displayed on the pane, he will switch to the “Post page”.

There are displayed the whole post and all its comments.

All features in this page are described below:

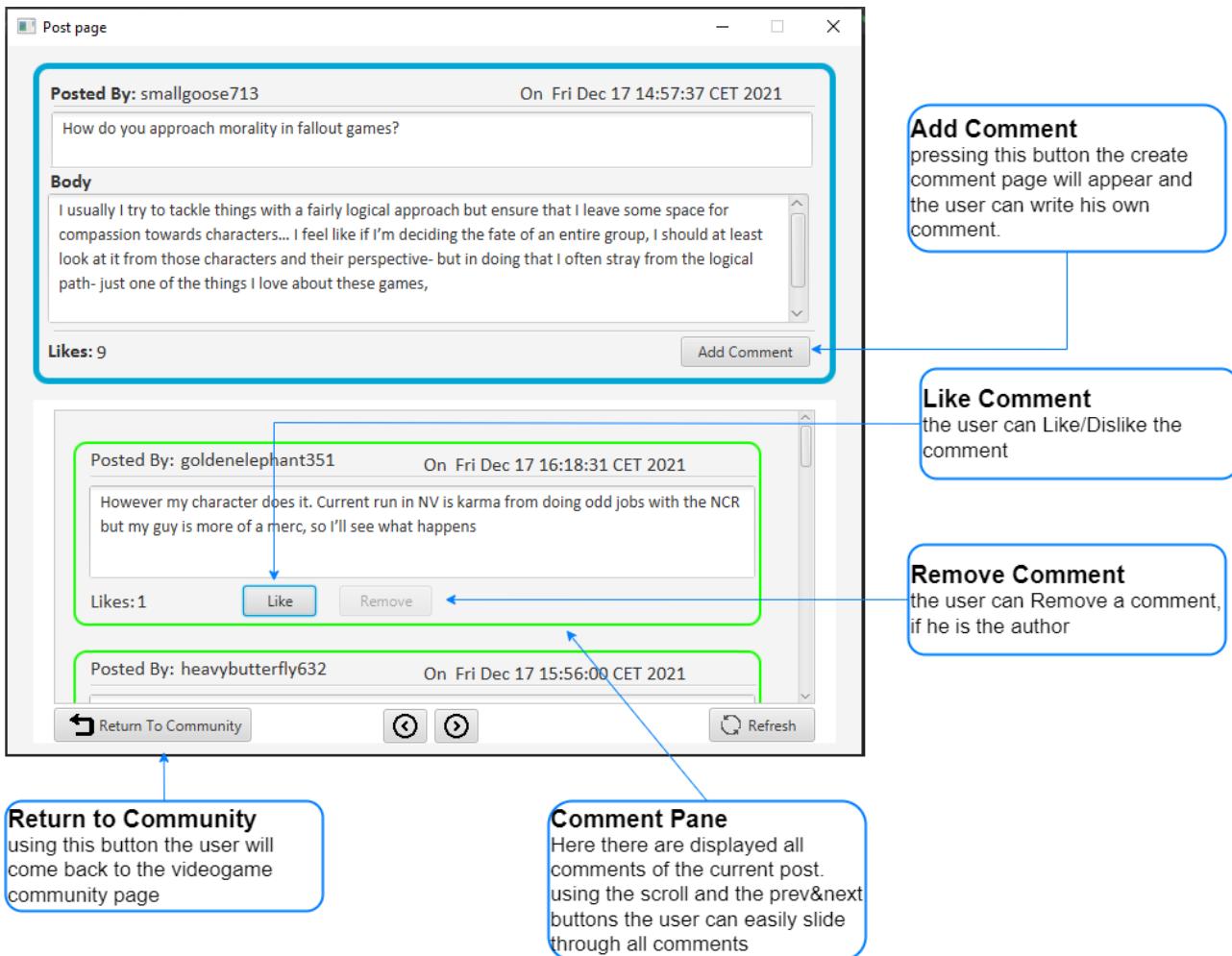


Fig.8 Post page

2.8. Write Comment Page

Selecting “add comment” on the Post page the user can write his own comment. He must fill the text field and then press the button “Create comment” to insert his comment in the database.

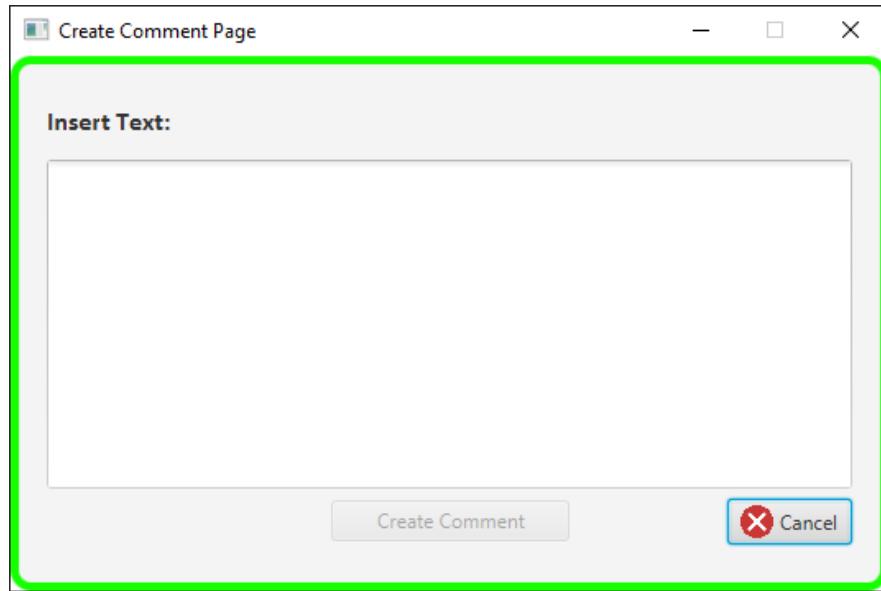


Fig.9 Write comment page

3. Admin GUI

In the admin section there are features and items that involve both users and videogame community, so it was chosen to apply a division by colors to increase visibility.

The division is composed as follows:

- light blue: items/features that affect users/admins
- blue: items/features affecting videogame communities
- red: delete operations
- orange: common item/features
- green: item/features concerning comments to posts in videogame communities

Below all the admin's graphical windows of the interface are shown, along with the offered functionalities:

3.1 Login Page



Fig.10 Login Page

In this page the user can choose to login as administrator or user. As third option, if is not registered yet, the user can sign up via the "Sign Up" Button.

3.2 Admin Home Page

Once the admin has logged in, he will see the “Admin Home page”.

All features involving admin and the visualization of the users and their statistics are described below:

The screenshot shows the Gameflows Admin Home Page. On the left, a sidebar menu includes: **Create New Admin Account**, **View All Users**, **View Influencer Ranking**, **View average number of comments per post for every user**, **Create New Community**, **View All Communities**, **View average number of comments per post in every communities**, **View best communities by likes in a given period**, and **Logout**. The main content area displays a grid of game community statistics. Each card in the grid contains a globe icon, a game controller icon, and the game title: Fallout, BioShock, StarCraft II: Wings of ... (top row); The Sims 3, Empire Earth, Battlefield 3 (middle row); and three partially visible cards at the bottom. A search bar at the top right allows searching for users or communities. Below the search bar are radio buttons for 'Users' and 'Communities'. At the bottom of the main content area are 'Previous Page' and 'Next Page' buttons.

View All The Users
Using this button the admin can view all the users registered on Gameflows
(result of the operation visible in section 3.2.1)

Create New Admin Account
Using this button the admin will open a new window where he can create a new account for a new admin
(window visible in section 3.3)

View the Influencer Ranking
Using this button the admin will open a new window, in which he can see the most active and followed users on Gameflows. He will also be able to decide to promote them to the rank of influencer.
(window visible in section 3.4)

View the Average Number of Comments Per Post for Every User
Using this button the admin will be able to see the average number of comments per post for every user, through a specific item, the user item with statistics.
(results of the operation visible in section 3.2.3)

Fig.11 Admin Home Page – Admin and Users Features

All features involving the visualization of the Videogame Communities and their statistics are described below:

The screenshot shows the Gameflows Admin Home interface. On the left, a sidebar lists various admin functions. A blue box highlights the 'View All Communities' button. Another blue box highlights the 'Logout' button at the bottom of the sidebar.

View All the Videogame Communities
Using this button the admin can view all the videogame communities on Gameflows, through the videogame item.
(result of the operation visible in this picture)

Create a New Videogame Community
Using this button the admin will open a new window, in which he can create a new Videogame Community, after having filled at least the mandatory fields.
(window visible in section 3.5)

View the Average Number of Comments per Post in Every Communities
Using this button the admin will be able to see the average number of comments per post in each community, through a specific item, the videogame item with statistics
(result of the operation visible in section 3.2.2)

View Best Communities by Likes in a Given Period
Using this button the admin will be able to see the most active communities in a data range chosen by the admin through two date pickers that become visible when this button is clicked.
(result of the operation visible in section 3.2.4)

Fig.12 Admin Home Page –Videogame Community Features

All features that are applied to both users and Videogame communities are described below:

Search User or Videogame Communities

Using this text area and the search button the admin can search among users by their name, after clicking the user radio button or search among communities again by their name, after clicking the community radio button.

(results of the operation visible in section 3.2.5)

Admin Home Pane

Here are displayed the different types of items like videogames, videogames with statistics or users.

By clicking on each item, the admin will be able to open the videogame community page window ([section 3.6](#)) in case the admin clicked on the videogame or videogames with statistics item, but instead if the admin clicked on the user item or on the user with statistics item the user data page will appear ([section 3.10](#))

The screenshot shows the Gameflows Admin Home interface. On the left, a sidebar contains links for creating a new admin account, viewing all users, influencer ranking, average comments per post, creating a new community, viewing all communities, average comments per post in communities, and best communities by likes. At the bottom of the sidebar is a 'Logout' button. The main area has a search bar with placeholder text 'Search an User or a Videogame Community' and a 'Search' button. Below the search bar are two radio buttons: 'Users' and 'Communities'. A grid of nine cards displays game icons and names: Fallout, BioShock, StarCraft II: Wings of ... (partially visible), The Sims 3, Empire Earth, and Battlefield 3. At the bottom of the grid are 'Previous Page' and 'Next Page' buttons. Arrows from callout boxes point to the search bar, the radio buttons, the Logout button, and the Previous & Next buttons.

Logout

Using this button the admin will come back to the login window.

(window visible in section 3.1)

Previous & Next Button

Using these buttons the admin can easily slide through all the pages of items.

Fig.13 Admin Home Page – General Features

3.2.1 Admin Home Page – View All The Users Results

The screenshot shows the Gameflows Admin Home interface. On the left, a sidebar menu lists various administrative functions: Create New Admin Account, View All Users (which is selected and highlighted in blue), View Influencer Ranking, View average number of comments per post for every user, Create New Community, View All Communities, View average number of comments per post in every communities, View best communities by likes in a given period, and Logout. At the top right, there is a search bar with the placeholder "Search an User or a Videogame Community" and a "Search" button. Below the search bar are two radio buttons labeled "Users" and "Communities". The main content area displays a grid of user profiles. Each profile consists of a blue-bordered box containing a user icon (a person's head with a game controller) and the user's name. The names visible are angrybear524, angrybird277, angrybird889, angrycat906, angrydog993, and angryduck827. At the bottom of the grid, there are "Previous Page" and "Next Page" buttons.

Fig.14 Admin Home Page – View all Users Result

3.2.2 Admin Home Page – View The Average Number Of Comments per Post in Every Communities Results

The screenshot shows the Gameflows Admin Home interface. On the left, a sidebar lists administrative tasks: Create New Admin Account, View All Users, View Influencer Ranking, View average number of comments per post for every user, Create New Community, View All Communities, View average number of comments per post in every communities, and View best communities by likes in a given period. Below these is a Logout link. The main content area features a search bar at the top with tabs for Users and Communities. Below the search bar are four cards, each representing a community and displaying its name and average comments per post. The first card is for 'FIFA 21' with 19.08 average comments per post. The second card is for 'Fallout' with 15.18 average comments per post. The third card is for 'Final Fantasy: Record Keeper' with 15.1 average comments per post. At the bottom of the main content area are 'Previous Page' and 'Next Page' buttons.

Videogame's name:	Average Comments Per Post:
FIFA 21	19.08
Fallout	15.18
Final Fantasy: Record Keeper	15.1

Fig.15 Admin Home Page – View Average Number Of Comments per Post in Every Communities Result

3.2.3 Admin Home Page – View the Average Number of Comments Per Post for Every User Results

The screenshot shows the Gameflows Admin Home interface. On the left, a sidebar menu lists various administrative functions: Create New Admin Account, View All Users, View Influencer Ranking, View average number of comments per post for every user (which is highlighted in blue), Create New Community, View All Communities, View average number of comments per post in every communities, and View best communities by likes in a given period. At the bottom of the sidebar is a Logout link. The main content area features a search bar at the top with the placeholder "Search an User or a Videogame Community" and a "Search" button. Below the search bar are two radio buttons: "Users" (selected) and "Communities". The main content displays four user profiles in cards:

User	Username	Average Comments Per Post
 User	orangerabbit930	24.16
 User	greenelephant501	14.63
 User	bigelephant423	14.14

At the bottom of the main content area are "Previous Page" and "Next Page" buttons.

Fig.16 Admin Home Page – View Average Number Of Comments per Post for Every User result

3.2.4 Admin Home Page – View Best Communities by Likes in a given Period Result

The screenshot shows the Gameflows Admin Home interface. On the left sidebar, under the 'View best communities by likes in a given period' section, there is a 'Confirm Dates' button. Below it, a green message says 'Research Successfully Executed!'. At the bottom of the sidebar is a 'Logout' link. The main content area has a search bar at the top with the placeholder 'Search an User or a Videogame Community' and a 'Search' button. Below the search bar are two radio buttons: 'Users' and 'Communities'. The 'Communities' option is selected. The main area displays four community entries in boxes:

Community	Videogame's name:	Number of Likes:
	waifubartending	2791
	AngelBeats	2479
	darksouls3	1713

At the bottom of the main content area are 'Previous Page' and 'Next Page' buttons.

Fig.17 Admin Home Page – View Best Communities by Likes in a Given Period result

3.2.5 Admin Home Page – Search Examples Results

The screenshot shows the Gameflows Admin Home interface. On the left, a sidebar lists various administrative functions. In the center, a search bar contains the word "white". Below it, a radio button is selected for "Users". The main area displays a grid of user profiles. Each profile card features a placeholder icon of a person with a game controller, followed by the user's name. The names visible are whitebear165, whitebird439, whitedog575, whitedog982, whitedog995, and whiteduck969. Navigation buttons "Previous Page" and "Next Page" are at the bottom.

Fig.18 Admin Home Page – View User Search Result

The screenshot shows the Gameflows Admin Home interface. On the left, a sidebar lists various administrative functions. In the center, a search bar contains the word "fall". Below it, a radio button is selected for "Communities". The main area displays a grid of community profiles. Each profile card features a placeholder icon of a globe with three game controllers, followed by the community's name. The names visible are Fallout, Titanfall 2, and Godfall. Navigation buttons "Previous Page" and "Next Page" are at the bottom.

Fig.19 Admin Home Page – View Videogame Community Search Result

3.3 Create New Admin Account Page

As we have seen in section 3.2 if an admin click on Create New Admin button, this page (the “Create New Admin Account page”) will appear.

The admin can create a new admin account by filling all the fields and by clicking the Create Button after that.

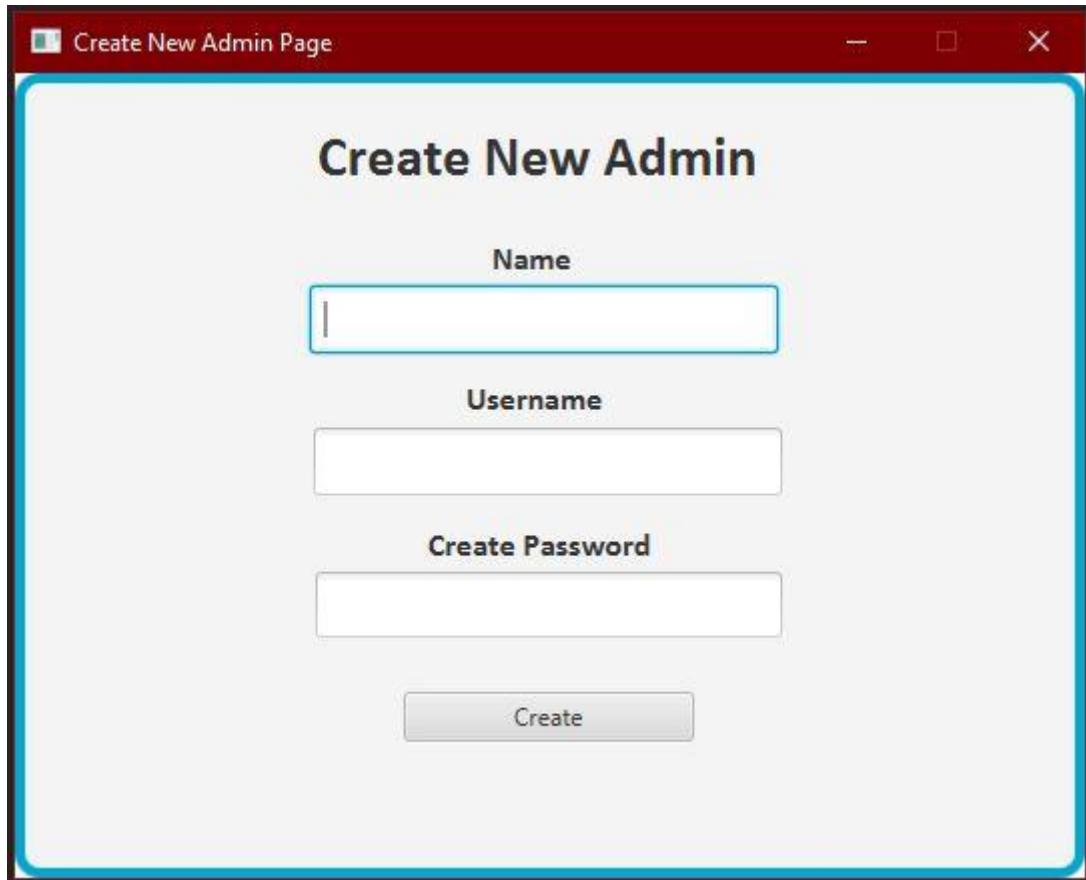


Fig.20 Create New Admin Account Page

3.4 View Influencer Ranking Page

As we have seen in section 3.2 if an admin click on View Influencer Ranking button, this page (the “View Influencer Ranking page”) will appear.

All features involving the influencers are described below:

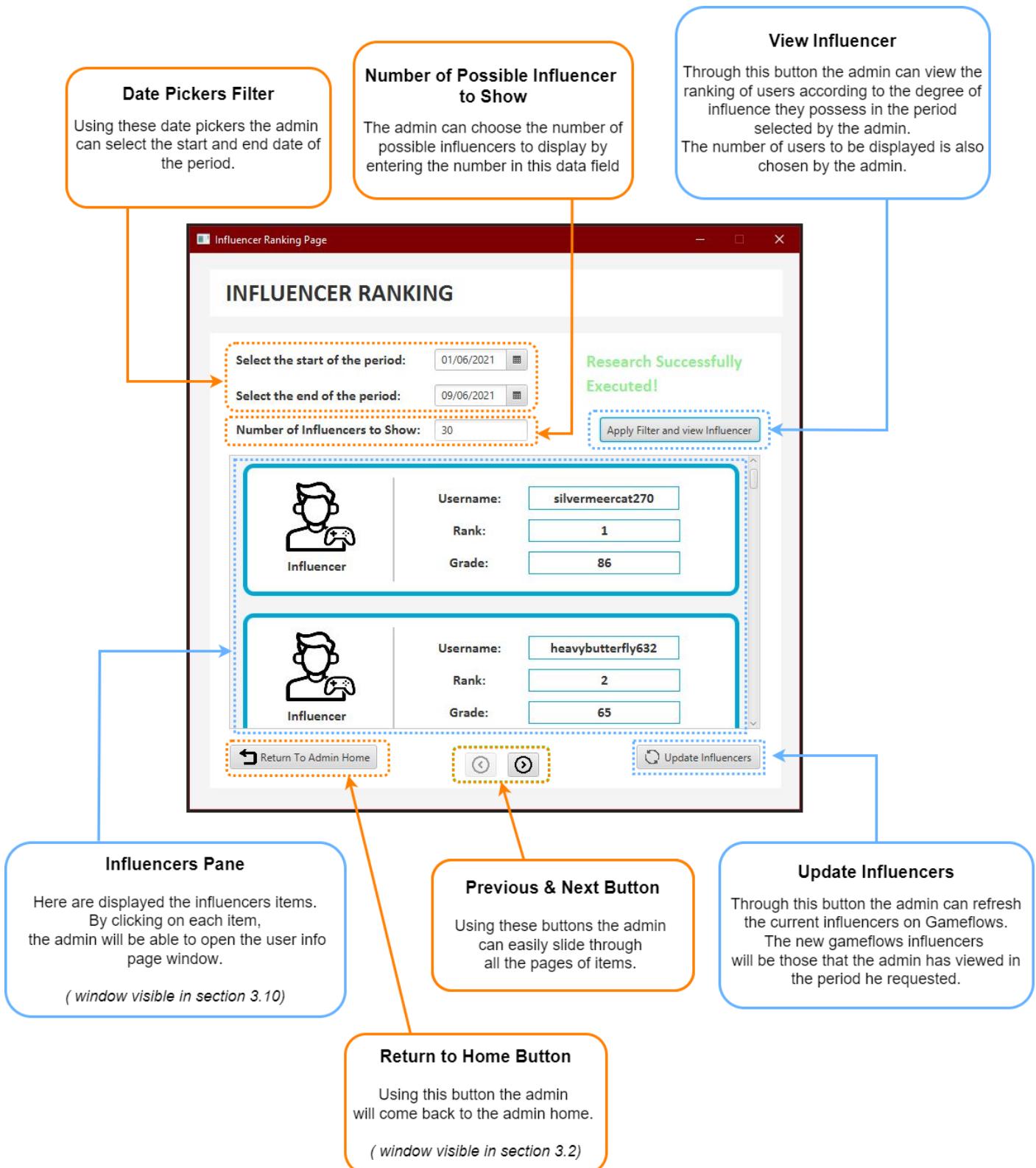


Fig.21 View Influencer Ranking Page

3.5 Create a New Videogame Community Page

As we have seen in section 3.2 if an admin click on Create New Videogame Community button, this page (the “Create New Videogame Community page”) will appear.

The admin can create a new Videogame Community account by filling all the mandatory fields, marked with the red asterisk, that are the Name and the Summary and by clicking the Create Button after that.

The remaining fields are optional and in particular those marked with the blue asterisk are fields where the admin can enter more than one characteristic, as long as it is separated by a semicolon.

The screenshot shows a Windows-style application window titled "Create New Videogame Community". The form contains the following fields:

- Name ***: An input field with a placeholder character.
- Aggregated Rating**: An input field.
- Collection**: An input field.
- ReleaseDate**: An input field with a calendar icon.
- GameMode ***: An input field.
- Cover**: An input field.
- Platform ***: An input field.
- Genre ***: An input field.
- Developer ***: An input field.
- Publisher ***: An input field.
- Summary ***: An input field.

At the bottom of the form are two informational footnotes:

- * Mandatory Field
- * Multiple Insert separated by ";"

A "Create New Videogame Community" button is located at the bottom center of the form.

Fig.22 Create a New Videogame Community Page

3.6 Admin Videogame Community Page

If the admin click on the videogame community item in “Admin Home Page” (Section 3.2) or on the videogame community with statistics item in “Admin Home Page” (Section 3.2.2/3.2.4) this page (the “Admin Videogame Community page”) will appear.

All features in this page are described below:

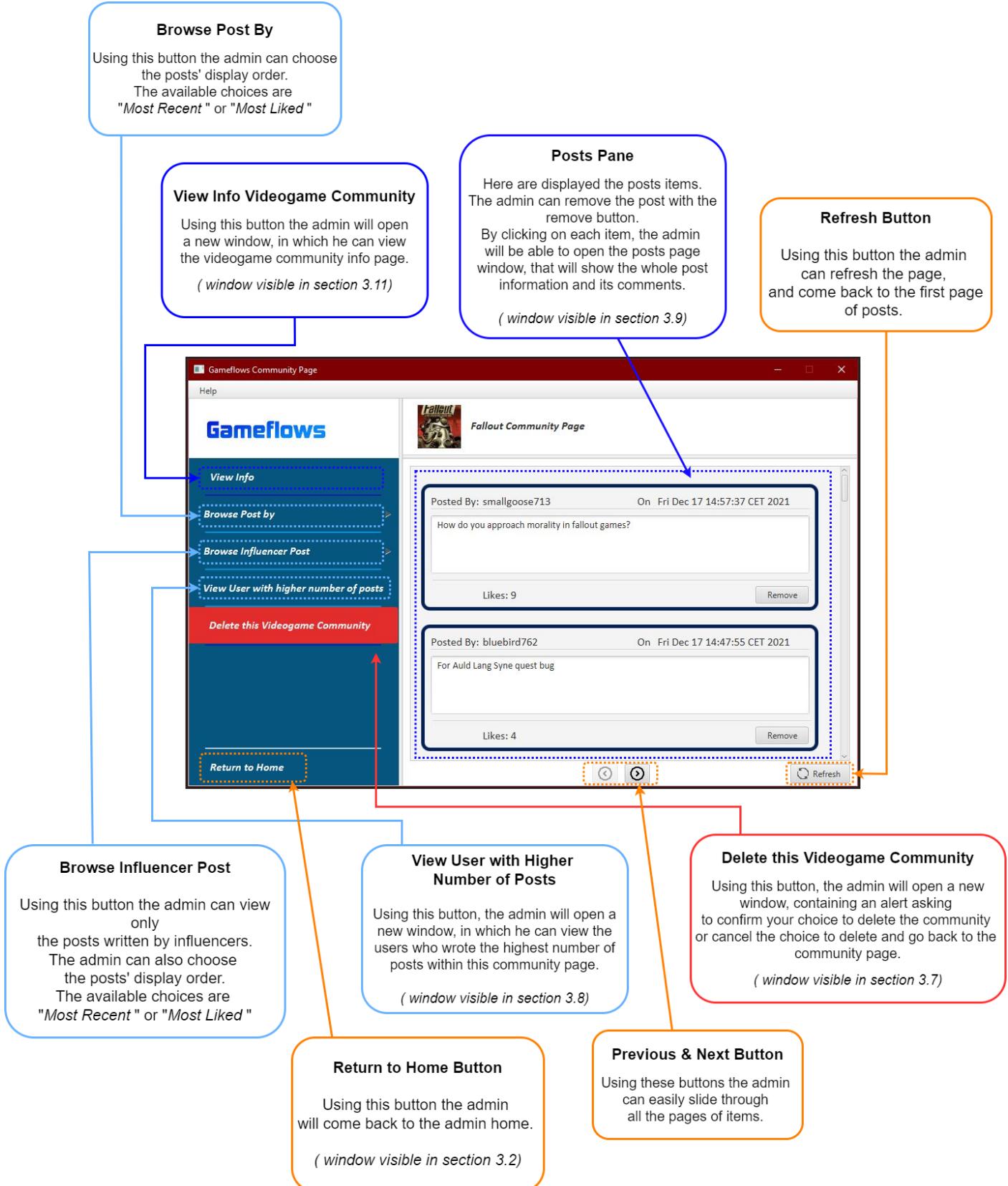


Fig.23 Admin Videogame Community Page

3.7 Delete Videogame Community Alert Page

As we have seen in section 3.6 if an admin click on Delete This Videogame Community button, this page (the “Delete Videogame Community alert page”) will appear.

The admin can delete the community by clicking on the Yes button or can cancel the operation by clicking on the Cancel button.

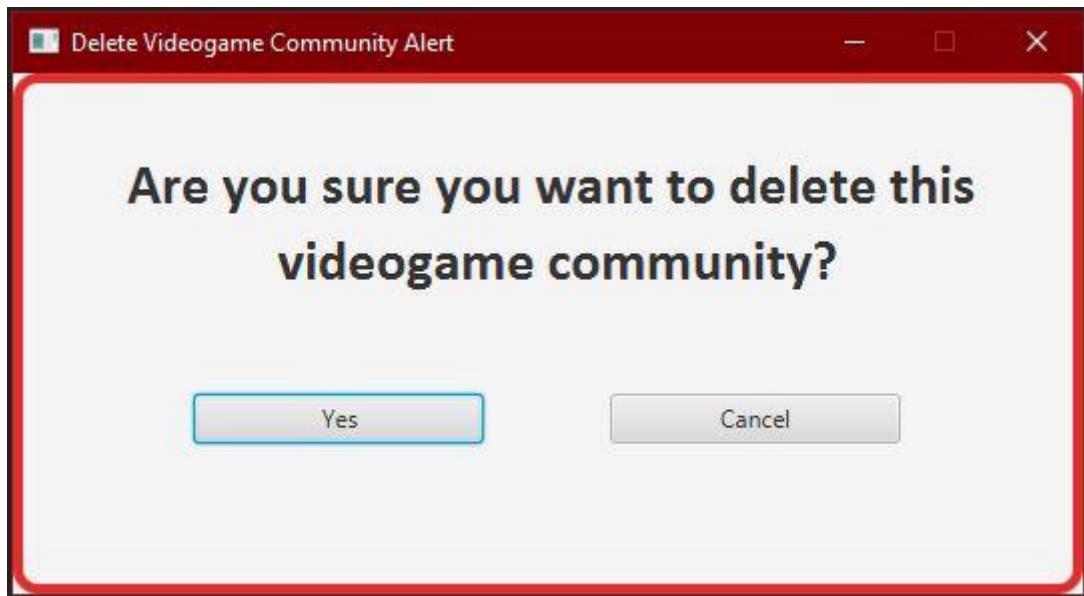


Fig.24 Delete Videogame Community Alert Page

3.8 View Best User By Number of Posts

As we have seen in section 3.6 if an admin click on View User with Higher Number of Posts button, this page (the “View Best User By Number of Posts page”) will appear.

All features in this page are described below:

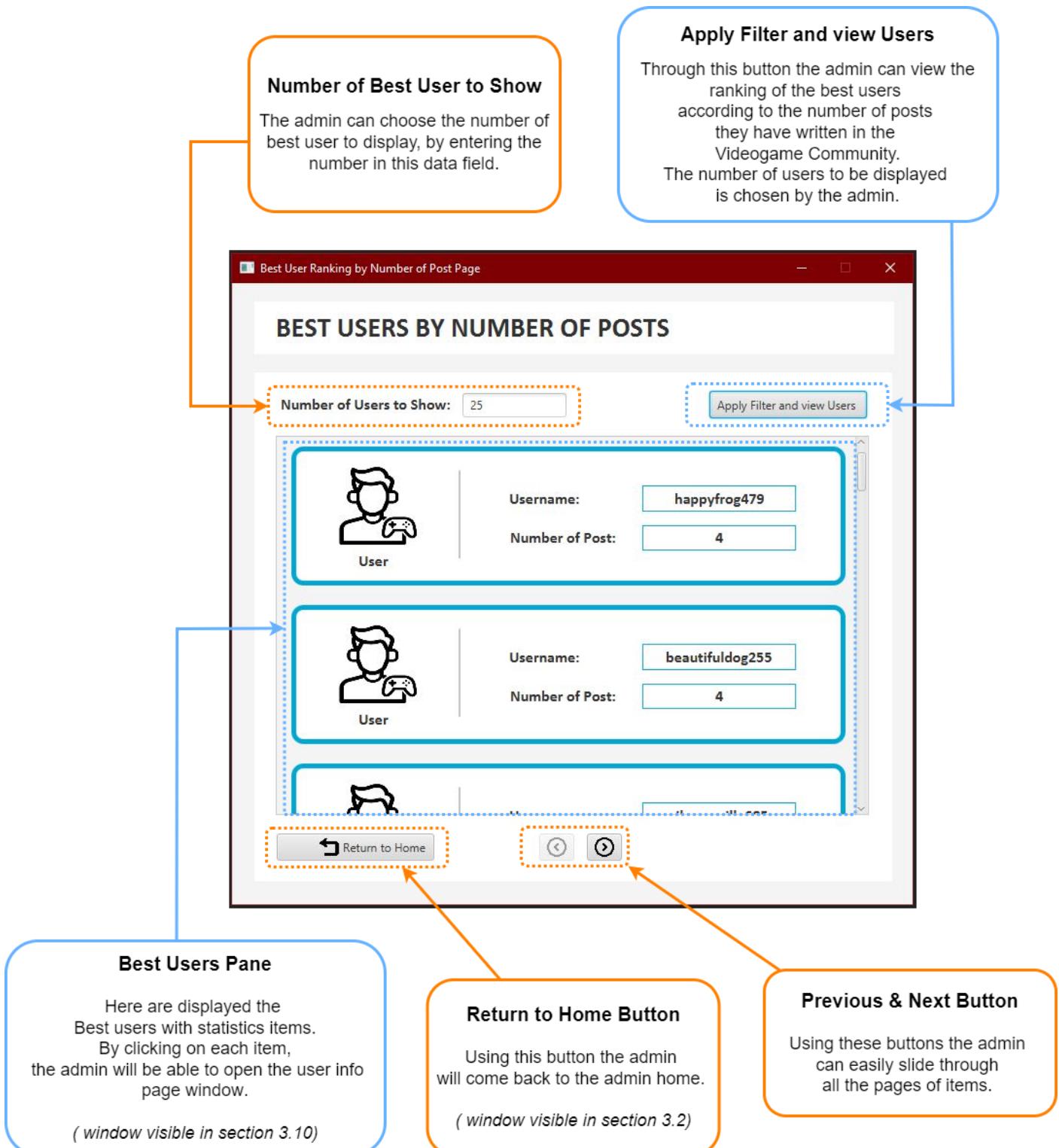


Fig.25 View User with Higher Number of Posts Page

3.9 Post Page

If the admin click on the post item in “Admin Videogame Community Page” (Section 3.6) this page (the “Post Page”) will appear.

All features in this page are described below:

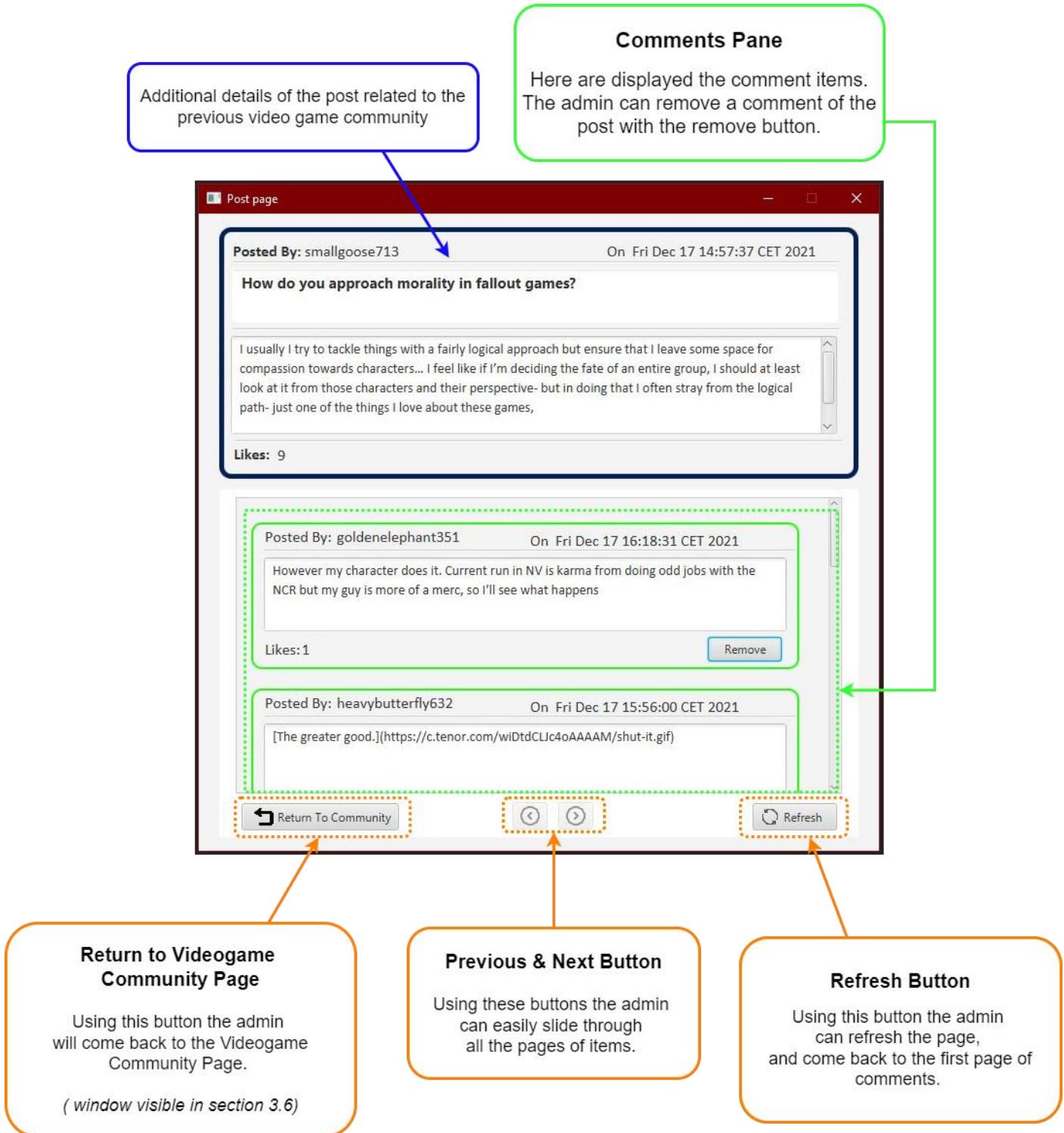


Fig.26 Post Page

3.10 User Info Page

If the admin click on the user item or on the user with statistics item in “Admin Home Page” (Section 3.2.1/3.2.3) or on the influencer item in “View Influencer Ranking” (Section 3.4) or also on the user with statistics item in “View Best User by Number of Posts” (Section 3.8), this page (the “User Info page”) will appear.

This page contains all the information on that specific user, such as name, surname, date of birth, if is influencer or if is banned and so forth.

In this page the admin can decide to ban a user, thus preventing him/she from logging into Gameflows, or to cancel the ban if the user is already banned.

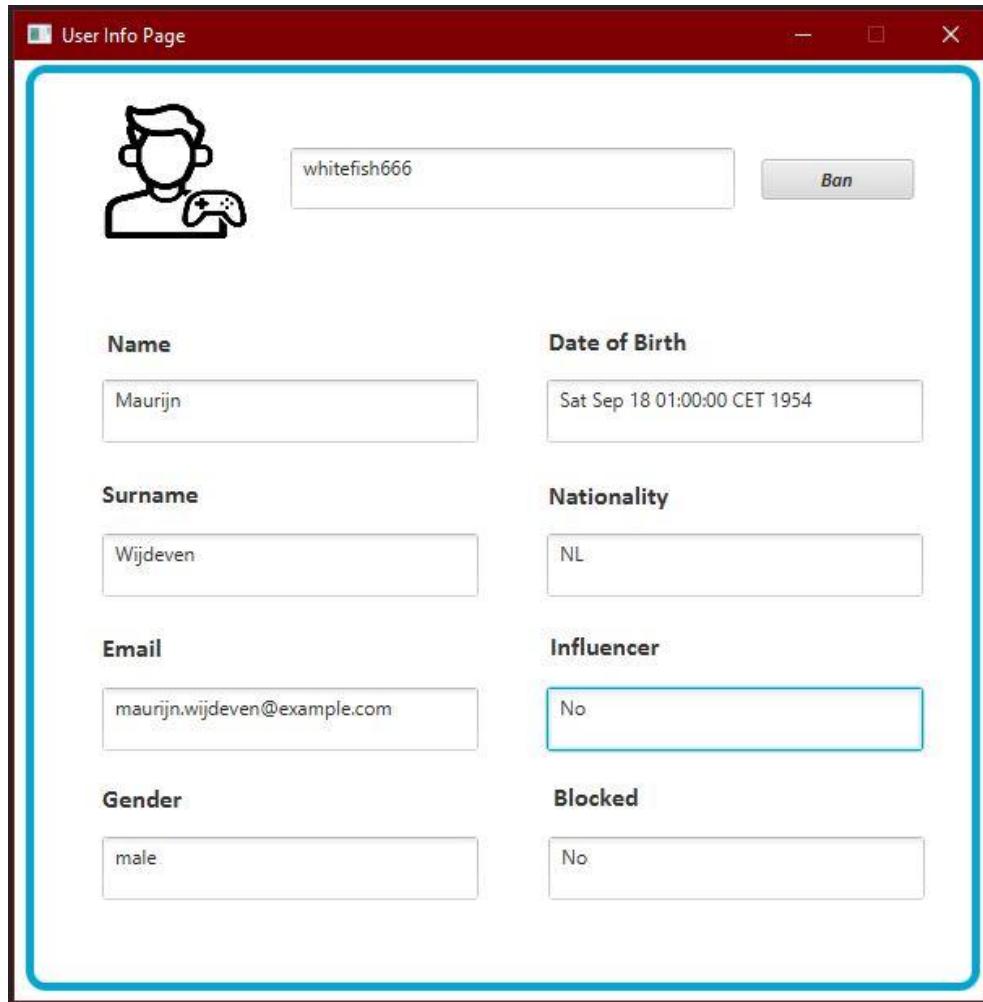


Fig.27 User Info Page

3.11 Videogame Community Info Page

As we have seen in section 3.6 if an admin click on View Info button, this page (the “Videogame Community Info page”) will appear.

This page contains all the information on that specific videogame, such as name, game modes, genres, developers and so forth.



The screenshot shows a window titled "Videogame Community Info Page" displaying information for the game "Fallout".

Fallout Community Info

Name	Fallout	Game Mode	Single player
Platform	PC (Microsoft Windows) PC DOS Mac	Release Date	Tue Sep 30 00:00:00 CEST 1997
Rating		Developer	Black Isle Studios
Genre	Role-playing (RPG) Turn-based strategy (TBS)	Publisher	Edusoft Interplay Entertainment

Summary

The Vault Dweller is tasked with exploring post-nuclear California in order to retrieve a water chip to replace the broken chip of Vault 13, their home, which they are the first person to ever leave. The player will engage in Western RPG character building and turn-based tactical combat while getting to know settlements and factions of people, mutants and ghouls through branching dialogue trees.

Fig.28 Videogame Community Info Page