

# Computer Systems Project: Assignment – 4

User guide



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## Introduction:

This application implements the game *Fox and Hounds* using the framework Django.

To run it, first, install the virtual environment and all the modules listed in the file *requirements.txt*, create the postgres database *ratongato*, and execute the application with the commands `python3 manage.py migrate`, `python3 manage.py makemigrations`, and finally `python3 manage.py runserver`. You can also run it entering in our Heroku web page:

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## Home page:

When you start the application the home page like the following picture will be displayed.



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Starting from the left, we can see the navigation bar which includes the logo of our application, a menu with the options *Login* and *Register* and finally a counter, which records the number of times the application returns an error due to unauthorized petitions.

Then, on the right we can see the contents of our home page and at the bottom a footer with the authors, the name of the application ...

## Login page:

After clicking the *Login* option of the menu in the navigation bar, the login page will be shown.



### Login

Username:

Password:

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As you can see at above image, the navigation bar and the footer are the same as in the previews page. This is because the footer is immutable and the navigation bar only changes if and user is logged or not, we will see it later.

Coming back to the login page, on the right part we can see a form asking for our credentials to log in, *Username* and *Password*, and the button *login* to submit this information to the server and login into the web page. Also, we can see on the bottom right a new button *Home*. After clicking it, it will take us to the home page, we will see it in all the pages except from the home page.

## Register page:

After clicking the *Register* option of the menu in the navigation bar, the register page will be shown.



### Register user

Username:

Password:

Repeat password:

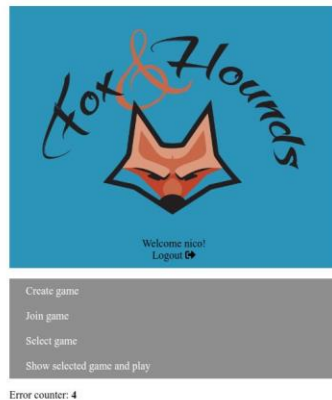
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Like in the login page, on the right part we can see a form asking for our credentials to register, *Username*, *Password* and *Repeat password*, and the button *register* to submit this information to the server and login into the web page.

## Logged Home Page:

When we log or register satisfactorily, we will be taken to the home page, but notice the navigation bar has been changed.



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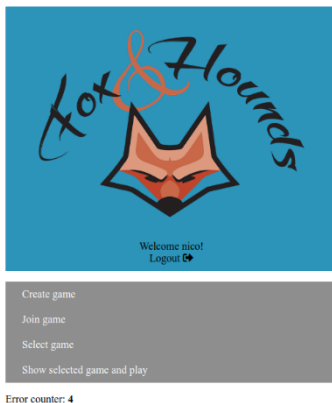


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Where the logo was, now it shows “Welcome” and our username, under it we can now find the option to logout. The menu also displays four new different options: *Create game*, *Join game*, *Select game* and *Show selected game and play*.

## Create game page:

As a result of clicking *Create game* the following page will be shown.



## Create game

Game **44** successfully created by user **nico**

[Home](#)

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It shows the information that a new game has been created by you, and the game id.

## Join game:

If you click on *Join game*, a similar page as the previews one will be shown, but now it shows that you successfully join to a game, or an error, telling “There are no available games”

## Select game:

The select game page includes 3 different parts as shown in next picture.



## Games joined:

At the top of the image we can see the “Games joined” they are separated in games as hounds and games as fox. Both of them are displayed using Django pages of 5 elements, so if more of if there are more of 5 elements of a kinds, a navigation menu like the one showed before “Games to join” is displayed to navigate through all the pages of that category. If you click on one, the game will be shown.

After selecting a game, if you click “Show selected game and play” in the navigation bar, this game will be shown.


## Games to join:

Here we can see all the games you can manually join. While the *join game* button in the menu joins to the game with largest index, here you can manually select what game you want to join. As before this and next part is displayed using Django pages. Like in “Games joined”, after clicking one, the game will be shown.

## Games finished:

Here we can see all the games you have already finished so you can replay it if you click on them.

## Game page:



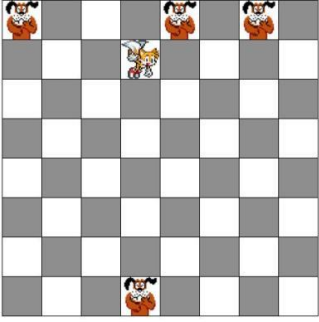
Welcome martin!  
Logout

Create game  
Join game  
Select game  
Show selected game and play

Error counter: 33

Game: 8  
Hounds: You  
Fox: nico

The fox is playing, please wait for it. [Refresh](#)



### Play


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The game page shows the game information including: the id of the game, who is playing hounds, who is playing fox, the game board and an animation on the right if the opponent is playing. To move the pieces, you just must drag the piece into the box you want it to move.

## Replay page:

The replay page is like the game page, but it does not include the animation on the right if the opponent is playing but a series of button to see previews, next and last state of the game.



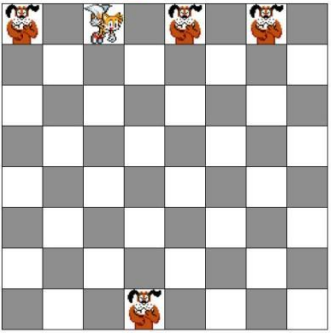
Welcome martin!  
Logout

Create game  
Join game  
Select game  
Show selected game and play

Error counter: 34

Game: 8  
Hounds: You  
Fox: nico

You lost. Better luck next time!



### Play

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