# Hackathon Rabat

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| Heure de création | @3 août 2023 16:04 |
| Étiquettes | Produit |

# Kick-off Hackathon Rabat :

## Overview :

***The hackathon Rabat*** on the theme hack your time is an opportunity to consolidate your knowledge of web development, your progress has prompted us to test your ability to code in a timely manner.

The aim of this exercise is to put you in a real-life situation where you'll have to create a feature or modify a code in a short space of time, while respecting the rules. The ultimate aim is to ask questions about the way you develop your solutions.

## Rules :

- 👀 **Always read terms of each step and read the documentation before coding**
- 👩‍🏫 **Organize your work, respect the best practices**
- 🕵️ **Feel free to ask questions.**
- 🚀 **Organize your Time**
- ⏰ **Respect the TimeSlot given**
- 🚃 **Push your code to github after 25 minutes of work**

## General Steps :

In order to fulfill your exercice you have to respect the time and the general rules given below :

- ***You have 2 hours for hacking and 10 minute to convince us (presentation)***
- ***Start by reading the terms, practice and read the documentation***

🚀 🚀**Happy Hacking** 🚀🚀

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## Steps :

> It's neccessary sometimes to read the documentation under the title **ressources**

### *1 - Init The project :*

The project is a landing page, containing game characters the page aim to view the characters and to filter them by their categories

The kick off project and the starter files will be find in the link below :

```
https://github.com/tijaniabdellatif/hackthon
```

***What to do :***

- [ ] Clone the project
- [ ] Create your own repository
- [ ] Read the file `guides.md`
- [ ] View the video inside the folder `demo`
- [ ] Organize your environnement
- [ ] Push your starter files to your own repository

***Ressources :***

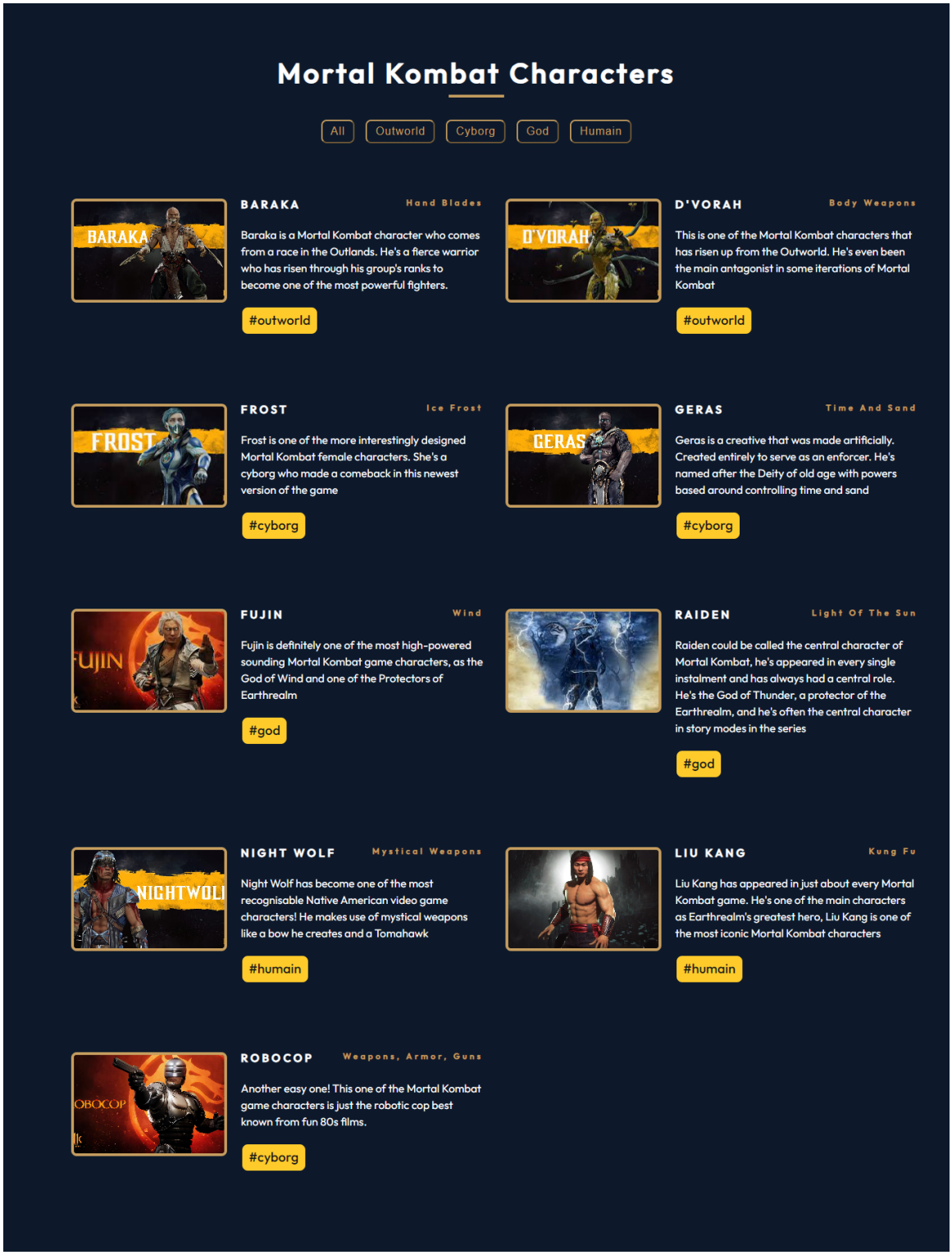
Start a new git repository

Creating a new git repository

https://kbroman.org/github_tutorial/pages/init.html

## *2- Start Coding (HTML / CSS) :*

In order to create the design below :




***What to do :***

- [ ] Analyze the starter files and the design.
- [ ] Mock up the design in order to decide the tags.
- [ ] Leave comment in your Code

☐ Create the HTML MARKUP, using semantic tags, and respecting the parent child logic

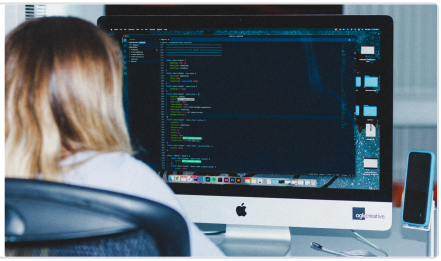
☐ Choose a CSS technique to organize and give styles to you HTML (Flex, Grid, or Floating)

***Ressources :***

8 HTML & CSS tips for organizing code in your web project

Here are some tips for getting started in web development and staying organized and on top of your coding projects.

https://ogkcreative.com/development/8-html-css-tips-for-organizing-code-in-your-web-project/



Semantic HTML5 Elements Explained

Semantic HTML elements are those that clearly describe their meaning in a human- and machine-readable way. Elements such as <header>, <footer> and <article> are all considered

https://www.freecodecamp.org/news/semantic-html5-elements/

A Complete Guide to CSS Grid | CSS-Tricks

Our comprehensive guide to CSS grid, focusing on all the settings both for the grid parent container and the grid child elements.

https://css-tricks.com/snippets/css/complete-guide-grid/

A Complete Guide to Flexbox | CSS-Tricks

Our comprehensive guide to CSS flexbox layout. This complete guide explains everything about flexbox, focusing on all the different possible properties for the parent element (the flex

https://css-tricks.com/snippets/css/a-guide-to-flexbox/

## 3 - *Start Hacking (Javascript) :*

As explained in the video demo inside the folder `demo`, the goal is that according to a data we'are making a local filter in order to filter out characters by their category, the main idea is to use javascript concept and develop a self algorithm to handle the filter

***What to do :***

- [ ] View and analyze the demo video in order to understand
- [ ] The actions is located in the buttons where the categories are listed
- [ ] The data is a local data, think of filtering the data and making changes to the interface

***Concepts that you will explore :***

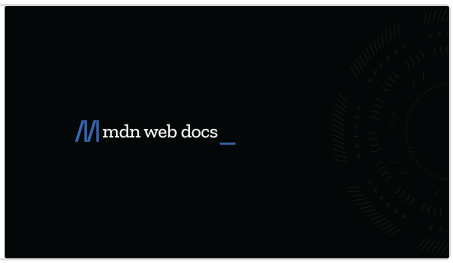
- Filter algorithm :

https://www.javascripttutorial.net/javascript-array-filter/

Array.prototype.filter() - JavaScript | MDN

The filter() method creates a shallow copy of a portion of a given array, filtered down to just the elements from the given array that pass the test implemented by the provided

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/filter




- Array methods :

JavaScript Array Methods | Programiz

In JavaScript, Array is a built-in global object that allows you to store multiple elements at once.

https://www.programiz.com/javascript/library/array

- Events on javascript :

https://www.youtube.com/watch?v=YiOlaiscqDY

***Explaining the methodoly  :***

To facilitate the creation of the dynamic side, read those steps and try to understand the concept behind

- When the page is loaded the data will be viewed automatically
- The data is dynamically rendered it means the HTML too should be used inside the javascript
- When clicking the buttons an event should be fired.
- The event click fired in the buttons filter out the data, and eventually the view is changing

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# Bonus :

As you can see, everything i mean the data is actually not coming from outside but it’s given as a static array of data, but imagine if the data is not static it means we can add another character with a different category .

> 💡 Figure out how to dynamically add that piece of data both in code and in the interface. proove your skills