

# Hypermedia project hand-in

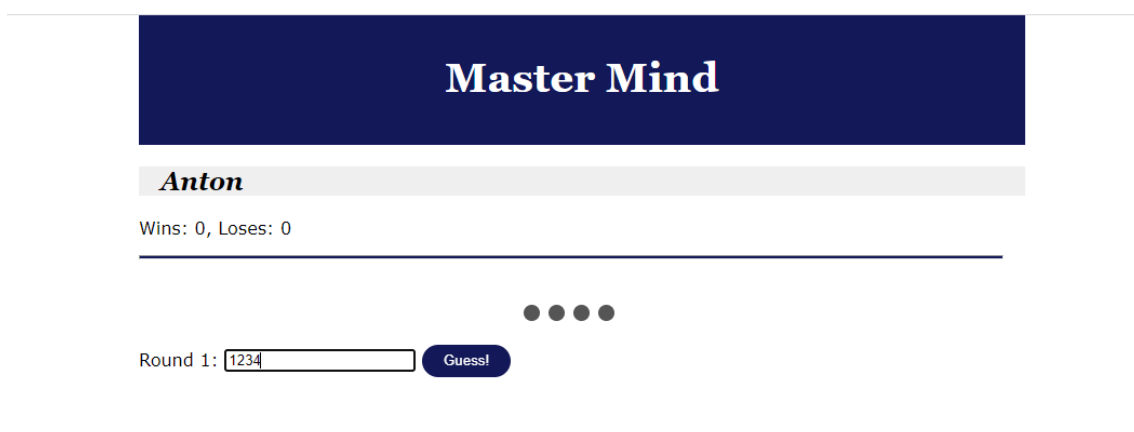
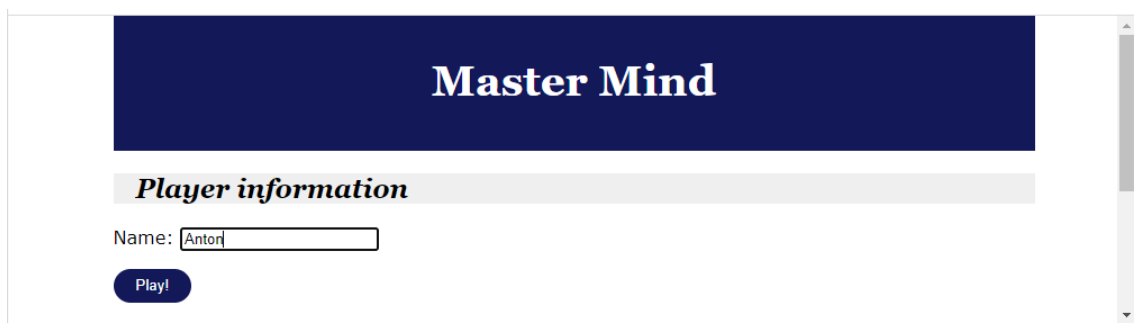
## Part 2: Create a web game: Master Mind

### 1 Project Goals

In this project, you will have to develop a simple web game. This game will be the [Master Mind](#) (or a simplified version of it). This game is a code-breaking game for two players, where the *codemaker* chooses a pattern and of four elements code and the *codebreaker* tries to guess the pattern. For each codebreaker's guess, the codemaker provides feedback by saying how many elements are in the correct in the right position and how many in the wrong position. From this information, the codebreaker needs to break the code before a given number of guesses.

For this project, you will have to implement a version of this game where the computer will create the code by randomly generate a 4-digit number without any repetition. The user will have the codebreaker's role and will have to break the 4-digit code. At each guess, the computer will inform on how many digits the user has found (and if they are on the correct position or not). The user will have ten guesses to find the code, if not, the user will lose the game.

Next, some snapshots of a possible implementation are shown. It's not assumed to do exactly the same interface, but it's a suggestion:



# Master Mind

**Anton**

Wins: 0, Loses: 0

● ● ● ●  
1 2 3 4 ✓ 1 ✗ 1

Round 2:  Guess!

# Master Mind

**Anton**

Wins: 0, Loses: 0

● ● ● ●  
1 2 3 4 ✓ 1 ✗ 1  
5 6 7 8 ✓ 1 ✗ 0  
2 0 7 4 ✓ 0 ✗ 0  
9 1 3 8 ✓ 0 ✗ 3

Round 5:  Guess!

127.000.1.5500 dlu  
Congratulations Anton!!!!

D'accord

**Anton**

Wins: 0, Loses: 0

● ● ● ●  
1 2 3 4 ✓ 1 ✗ 1  
5 6 7 8 ✓ 1 ✗ 0  
2 0 7 4 ✓ 0 ✗ 0  
9 1 3 8 ✓ 0 ✗ 3

Round 5:  Guess!

# Master Mind

*Anton*

Wins: 1, Loses: 0



Round 1:  Guess!

Anton, you have lost!

D'accord

*Anton*

Wins: 1, Loses: 0

1	2	3	4	0	2
6	7	8	9	1	0
5	3	2	9	1	1
1	7	5	8	0	1
3	1	8	7	1	1
4	2	4	2	0	1
2	9	8	7	1	1
5	7	3	2	1	1
9	6	3	2	1	1

Round 10:  Guess!

# Master Mind

*Anton*

Wins: 1, Loses: 1



Round 1:  Guess!

## 2 Documentation

The final submission will be consisting a zip file on Moodle with the following parts:

- **README** file with any information related to the implementation
- **Website code** (HTML, CSS, JavaScript, and image files)

## 3 General considerations:

- This project should be developed in groups of **two people**.
- You can use other tools such as Bootstrap or other frameworks. Mention it on the README file and justify why you have used them.
- Try to be creative in your proposal.
- Code clarity and correctness will be evaluated.