# Personal Info

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Gender: Male

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Preferred Language: Chinese

Working Experience: Finexus Group (Internship)

# Assessment 1

**Details:**

-Build a single-page web app using HTML/JAVASCRIPT/CSS/JQUERY where the user can interact with a chatbot named Jamie

- The webpage must be mobile responsive.

**Submission:**

- The webpage must be mobile responsive.

- Must submit your code into either (Github/ Gitlab/ Google drive).

- Provide a link to your repo

**Description of Jamie:**

Jamie is a chatbot, it will have limited type of replies, the following is the reply details:

- Jamie says “Yes” when the user asks a question

- Jamie says “Please remain calm.” if you yell at him.

- Jamie says “Please give me some time to resolve the issue.” if you yell a question at him.

- Jamie says “Can I help you?” if you mention his name without any other messages.

- Jamie says “Sorry, I don’t understand” to anything else.

**Description of the webpage:**

- Display current date and time on the bottom of the message bubble.

- Display names above message bubble.

- Display placeholder in input box.

- You are allowed to use bootstrap or any library related.

- Don’t use any framework like Vue or react, do this in JS vanilla or JQuery.

**Element:**

<https://drive.google.com/drive/folders/1ykv463mCHiXGo1JxJj28u1pquwWJT9F2?usp=drive_link>

**Design:**

<https://drive.google.com/file/d/1_0TXcaNxBdxt8KdJoocg98XArT96Gvh6/view?usp=sharing>

**Your Repo: https://github.com/calvinlau1809/Assessment-1-Chatbot.git**

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# Assessment 2

**Question 1**

What is the value that will be returned in the console log below? \*this is javascript code

function cal(a,b) {

a+b

}

console.log(cal(1,2))

**Your Answer: undefined, because the function cal doesn’t return a value**

**Question 2**

Write a js/jquery function to convert variable x into “Goal” object structure.

let x = [

{

id: 1,

type: “a”

},

{

id: 2,

type: “b”

},

{

id: 3,

type: “b”

},

{

id: 4,

type: “c”

},

{

id: 5,

type: “a”

},

]

Goal: {

a : [{id: 1,type:a},{id: 5,type:a}],

b : [{id: 2,type:b},{id: 3,type:b}],

c : [{id: 4,type:c}]

}

**Your Answer:**

function convertToGoal(arr) {

    let goal = {};

    arr.forEach(item => {

        if (!goal[item.type]) {

            goal[item.type] = [];

        }

        goal[item.type].push({id:item.id, type:item.type});

    });

    return goal;

}

let result = convertToGoal(x);

console.log(result);

**Question 3**

Explain the difference between flex and grid display from CSS. (Explain with your own words)

**Your Answer: Flexbox can only use when items is align in a constant direction (either horizontal or vertical) and each item in a flexbox is arranged in order but each of them can be in different sizes. Grid can be used when items need to be arranged/placed in both direction (2 dimension). Grid consists of rows and columns and the spaces between them can be adjust using ‘grid-gap’ property.**