

# **SOFTWARE REQUIREMENT SPECIFICATION**

## **RESTAURANT TIP CALCULATOR**

### **USING JAVASCRIPT**

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# 1.Introduction

## 1.A)Purpose

Restaurant TIP calculator is a JAVASCRIPT based project that will allow restaurant manager to generate the food bill in effective manner which includes tip and through an easy-to-use interface. It will have a corresponding JAVASCRIPT ENVIRONMENT. The system will also allow reports on that data to be easily generated, printed or exported. As the cost and quality of restaurants are usually indicative of the range and type of services available. Due to the enormous increase in food consumption world wide during the last decades of the 20th century,standards,especially those of seller establishments have been improved considerably so this bill generator will help allot to save time in bill generation. This restaurant tip calculator will help restaurant manager to generate the food bill which will include the taxes and tip.and this bill could be deleivered to the end customer. The basics of this project is to generate the food bill in a very hassle free manner and in a cost effective way.

## 1.B)Intended Audience:-

Basically our project calculates the tip which a customer may opt to pay in the restaurant and which is very usefull for the hotel managers to earn extra wage for the persons working in the restaurant. This technology which purportedly allow the restaurant managers to make billing process quickly through a webpage. Any personel in the restaurant could easily calculate the tip and make whole bill through this webpage restaurant tip calculator.

## 1.C)Intended device:-

Restaurant managers and other staff members could easily access this through a webpage and tally the bill.It is compatible with any computer.

## 2)Proposed features :-

This project will provide features like generating the food billll in an electronic way. This will also allow mangers to add the tip which will be included into the final bill.And this project will also allow generate the bill in less time and without any problem of costing.

## 2.A)Quality Web content :-

There are some primary reason that people uses search engines and browser websites to search for inforation. People desire inforation every day and want if delievered in a fast and reliable fashion. So the moral is that we have developed this

web based calculator in with short and sweet contents into it.

### **2.B)Clear,Userfriendly Navigation :-**

A stellar web design must contain a user friendly navigation scheme that allows visitors to quickly find the information that they need. Important links must be easy to find and given logically, simple and includes easy-to-understand the labels. In this project all the contents are easy to understand and the UI is also user-friendly.

### **2.C)Simple and professional web design-**

Bells and whistles may seem nice in concept but they rarely add such value to an effectively constructed and sensible web design. Typically the websites best at effectively converting site visitors into buying customers, maintain an attractive layout, but while so keeping it clean and simple. So in this our proposed project we had made it simple and used all professional design styles to make it look like professional design.

### **2.D)Webpage speed:-**

People inherently lose patience quickly and that holds true when visiting a webpage. The longer webpage takes to load the more likely a person will leave before it fully renders. In order to avoid this we had made the webpage with short contents so that rendering time eventually decreases so that the running time increases though.

## **3.Operating Environment :-**

### **3.A)Operating System:-**

It is not special for a particular operating system and no special operating system used here. User can use it on any of his available operating system.

### **3.B)Web development tools :-**

Web development tools could be as browser add-ons or built in features in web browsers, such as Google Chrome, Firefox, Internet Explorer, Safari etc. and any additional add-ons can be found in their respective plugins download centers. Web development tools allow developers to work with variety of web technologies, including HTML, CSS and other components.

### **3.C)Plugins :-**

No plugins are used here.

### 3.D) Installation Procedure :-

#### Step 1 :- Installing Brackets Software

- 1): To download Brackets Software visit the website <http://brackets.io/> and Click the "DOWNLOAD" link under the Community Section.
- 2) Once the download is complete, run the exe for installing Brackets . The setup wizard should have started. Click "Next".
- 3) On the next screen, Change the installation path if required. Click "Next".
- 4) On the next screen, you can create a desktop shortcut if you want and click on "Next".
- 5) In the start menu folder. click on "Install".
- 6) Wait for the installation to finish.
- 7) Installation finished, you should receive a message screen that Brackets is been installed. If you want to go ahead and run it, click the "Run Brackets Community Edition" box first and click "Finish".
- 8) After you click on "Finish," the Following screen will appear

#### Step 2 :- Creating a .html file in Brackets Software

- 1) Select the project root in the Project tool window, then select File | New ... from the main menu or press Alt+Insert.
- 2) And then the new file will get created.
- 3) Then after just start typing the whole JavaScript Code into it.
- 4) After completed typing the code go to 'file' option then select Save as option

5)After selecting it select the path for the file to save.

6)Then Rename the file and save the file as in .html format.

### **Step 3 :- Installation Process**

1) Now search the .html file which we have created in Brackets.

2)Once you get that just double click on it.

3)Then the final running screen of project will get displayed on a by default browser.

4) Then just put all the details in that screen click on 'calculate ' tab displayed next to it.

5) And then the final output of the project will get displayed.

## **4.Technology :-**

### **4.A)Languages :-**

We are using the most popular programming language that is JAVASCRIPT.

### **4.B) Servers:-**

There is no use of servers.

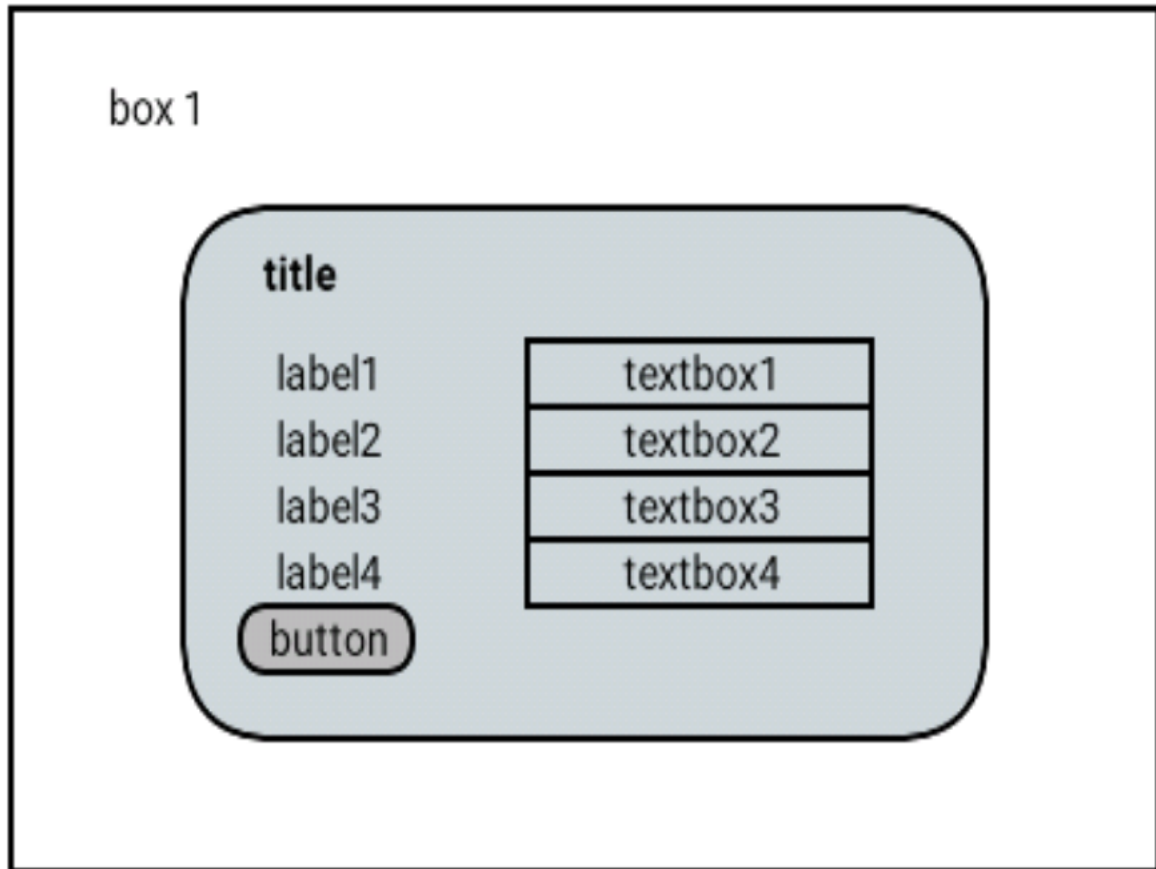
### **4.C)Framework :-**

We are using flask framework in javascript which is most popular for webdevelopment

### **4.D)Database :-**

No database needed.

## 5. User interface basic wireframe:-





Basic UI Diagram :-

The image displays two screenshots of a web browser showing a 'Tip Calculator' form. The top screenshot shows the initial state with empty input fields. The bottom screenshot shows the form after calculation with values: Bill amount 110, tip perc 10, tip amount 11, total billed 121.

**Tip Calculator**

Bill amount

tip perc

tip amount

total billed

**CALCULATE**

---

**Tip Calculator**

Bill amount

tip perc

tip amount

total billed

**CALCULATE**

## 6.Algorithm

**Step1:**Start

**Step2:**Open the webpage

**Step3:**Enter the bill amount of the food.

**Step4:**Ask for if the customer wants to pay tip for the food.

**Step5:**If 'YES' than ask for percent of Tip customer wants to Pay for.

**Step6:**Else click on Calculate.

**Step7:**After putting the percent of tip customer wants to pay then click on the calculate tab displayed on the screen.

**Step8:**Print the final bill amount

**Step9:**Exit.

## 7.Details :-

### 7.A) Pseudo Code :-

**Accept bill amount and tip in percentage**

```
letamount=document.getElementById('Bill_amount').Value;
```

```
letperc=document.getElementById('tip_perx').value;
```

**Calculate total tip**

```
lettip=amount*(perc/100);
```

```
alert(tip);
```

**Calculate total amount**

```
lettotal=tip+amount;
```

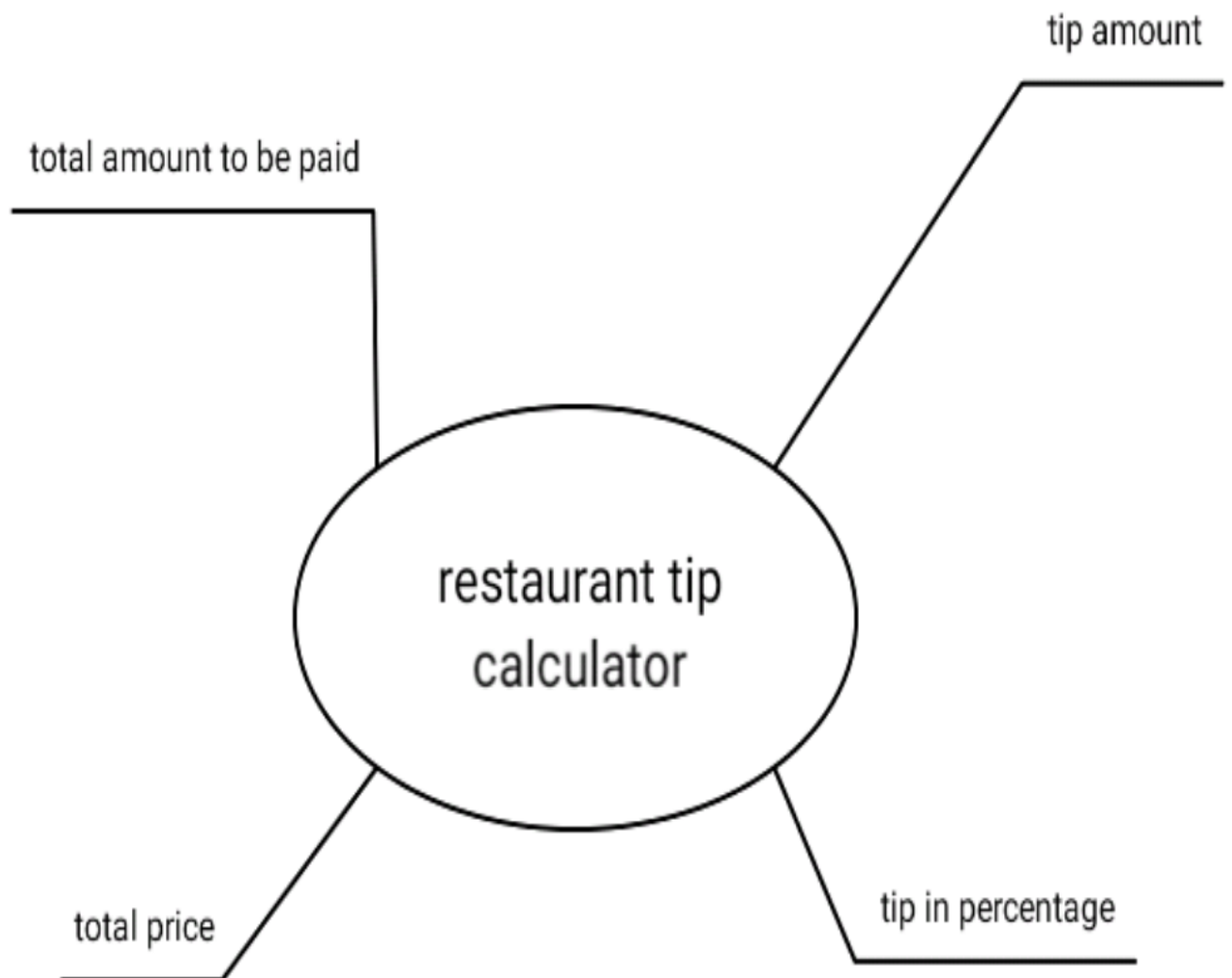
```
alert(total);
```

Return the total tip and total amount

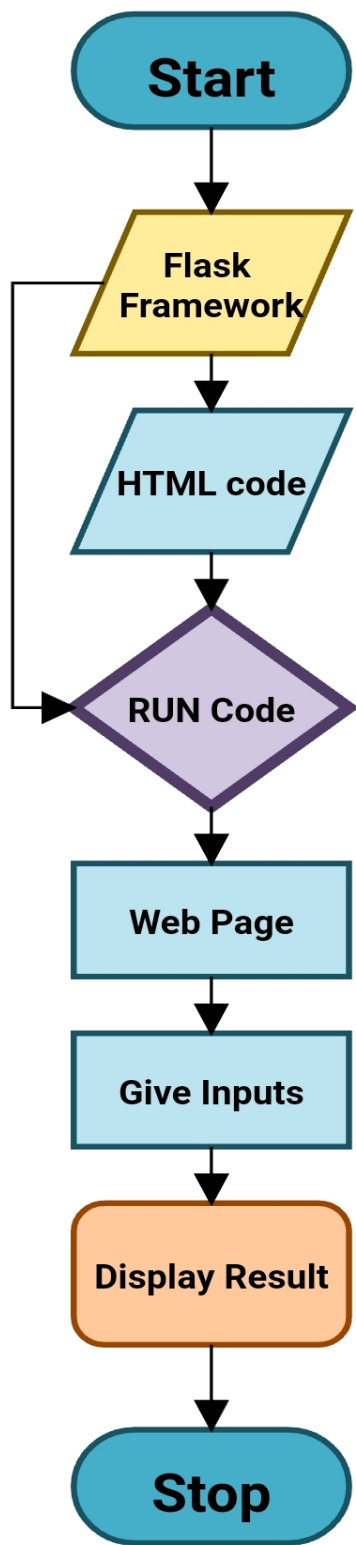
```
document.getElementById('tip_total').value=tip;
```

```
document.getElementById('total_Billed').value=total;
```

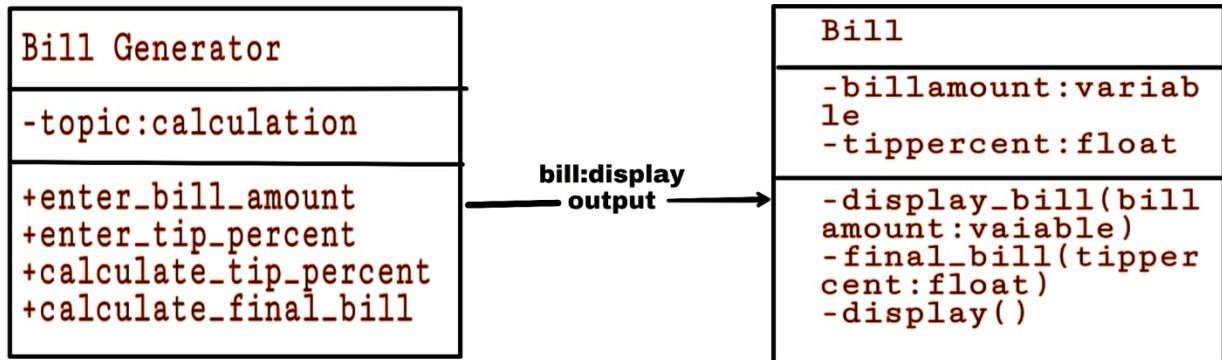
7.B)Mind Map Diagram :-



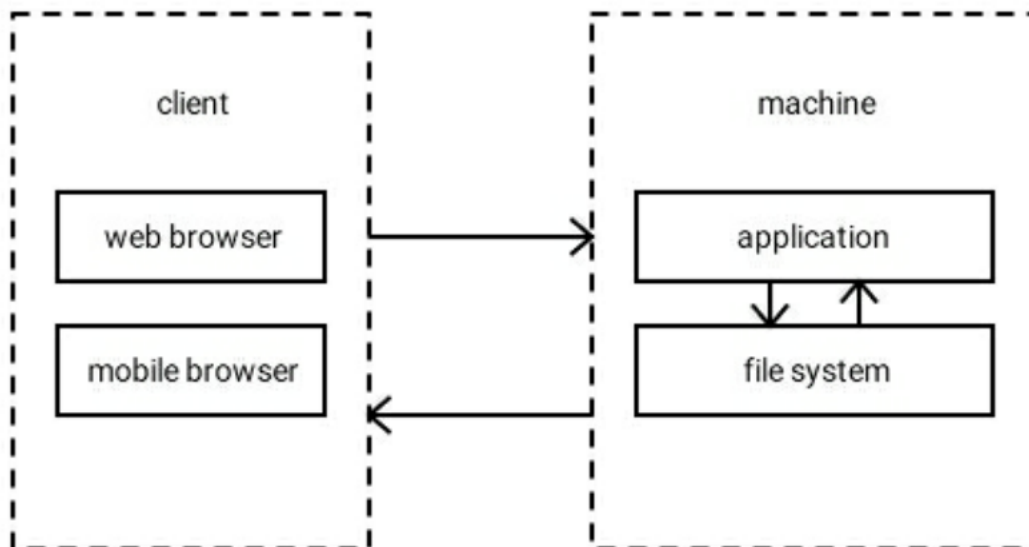
7.C)Work flow Diagram :-



### 7.D)Class Diagram :-



### 7.E)System Architecture Diagram :-



## **8)Conclusion :-**

In this way we conclude that the webpage was created by using html, css and javascript programming language. The created webpage is compatible with every browser and also with any size screen which includes dekstop size. This project is suitable for any kind of restaurants for billing process.It has all the features built-in it for calculating bills.