

Tax-Calculator App

The project is Web app frontend part. In side project work on frontend part. Use the Bootstrap, HTML, CSS , JavaScript and jQuery etc This app created by using JavaScript application based and design is fully responsive.

1. Frontend: -

It's a created using the JavaScript application. In this app bootstrap link is attached. I have also used favicon image. I have also used font-awesome link. I have also used jQuery also. I have also used footer in this extra thing which shows copyright icon with name and year. I have also used port :5501 for local.

This Application is fully

responsive created.

(i) Index.html file:

```
index.html x JS script.js
index.html > html
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="UTF-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Tax Calculator</title>
8   <!-- Add bootstrap link -->
9   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet">
10  <!-- Add fontawesome link -->
11  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/font-awesome@5.15.4/css/all.min.css">
12  <!-- Add Favicon link -->
13  <link rel="icon" type="image/x-icon" href="/images/tax-icon.jpg">
14  <link rel="stylesheet" href="styles.css">
15 </head>
16
17 <body>
18   <div class="container">
19     <div class="row justify-content-center">
20       <div class="col-md-6">
21         <div class="card mt-5">
22           <div class="card-body">
23             <h1 class="card-title text-center custom-text-color">Tax Calculator</h1>
24             <form id="taxForm" class="mt-4">
25               <div class="form-group">
26                 <label for="income">Enter gross annual income
27                   <i class="fas fa-question-circle question-mark"></i>
28                   <!-- tooltip content -->
29                   <span class="tooltip-content">Gross annual income is your total salary in a year
30                     before any deductions</span>
31                 </label>
32                 <input type="number" id="income" placeholder="Enter gross annual income" name="income"
33                   class="form-control" required>
34               </div>
35             </form>
36           </div>
37         </div>
38       </div>
39     </div>
40   </div>
41 </body>
42 </html>
```

```

32 |         <input type="number" id="income" placeholder="Enter gross annual income" name="income"
33 |             class="form-control" required>
34 |     </div>
35 |     <div class="form-group mt-3">
36 |         <label for="extraincome">Enter extra income
37 |             <i class="fas fa-question-circle question-mark"></i>
38 |             <!-- tooltip content -->
39 |             <span class="tooltip-content2">Extra income is your additional income that earns
40 |                 outside of your regular salary</span>
41 |         </label>
42 |
43 |         <input type="number" id="extraincome"
44 |             placeholder="Enter extra income from other sources" name="extraincome"
45 |             class="form-control" required>
46 |     </div>
47 |     <div class="form-group mt-3">
48 |         <label for="age">Enter age group</label>
49 |         <select id="age" name="age" class="form-control" required>
50 |             <option value="<40">less than 40</option>
51 |             <option value="=40&<60">greater than equal to 40 and less than equal to 60</option>
52 |             <option value="=60">greater than equal to 60</option>
53 |         </select>
54 |     </div>
55 |     <div class="form-group mt-3">
56 |         <label for="deductions">Enter total applicable deductions
57 |             <i class="fas fa-question-circle question-mark"></i>
58 |             <!-- tooltip content -->
59 |             <span class="tooltip-content3">Total applicable deductions is your sum of all
60 |                 deductions that can be subtracted from a gross income to arrive at their taxable

```

```

58 |             <!-- tooltip content -->
59 |             <span class="tooltip-content3">Total applicable deductions is your sum of all
60 |                 deductions that can be subtracted from a gross income to arrive at their taxable
61 |                 income</span>
62 |         </label>
63 |         <input type="number" id="deductions" placeholder="Add total applicable deductions"
64 |             name="deductions" class="form-control" required>
65 |     </div>
66 |     <button type="submit" class="btn btn-primary col-12 mx-auto mt-3">Submit</button>
67 | </form>
68 | <div id="result" class="mt-4"></div>
69 | </div>
70 | </div>
71 | </div>
72 | </div>
73 | <br /><br />
74 | <hr />
75 | <h4 class="text-center text-bg-warning"> &copy; Shekhar Suri 2024</h4>
76 |
77 | <div id="modal" class="modal bd-example-modal-lg" tabindex="-1" aria-labelledby="myLargeModalLabel"
78 |     aria-hidden="true">
79 |     <div class="modal-dialog modal-lg">
80 |         <div class="modal-content">
81 |             <span class="close">Your overall income will be</span>
82 |             <div id="modalResult"></div>
83 |         </div>
84 |     </div>
85 | </div>

```

```

85 | </div>
86 | <!-- JQuery link -->
87 | <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
88 | <script src="script.js"></script>
89 | </body>
90 |
91 | </html>

```

(ii) Style.css file:

index.html # styles.css X JS script.js

styles.css > ...

```
1 .container {
2     justify-content: center;
3     align-items: center;
4 }
5 .question-mark {
6     color: #b7c7d8; /* color of the question mark icon */
7     border-radius: 50%; /* Make the question mark icon rounded */
8     background-color: #fff; /* background color of the question mark icon */
9     padding: 3px; /* Adjust the padding to control the size of the icon */
10 }
11 .tooltip-content {
12     display: none;
13     position: absolute;
14     background-color: #fff;
15     border: 1px solid #ccc;
16     padding: 5px;
17     border-radius: 5px;
18     z-index: 1;
19     width: 150px; /* width of the tooltip content */
20     font-size: 14px; /* font size of the tooltip content */
21 }
22
23 .question-mark:hover + .tooltip-content {
24     display: block; /* Show the tooltip content when the question mark icon is hovered over */
25     top: 40px; /* Adjust the top position to position the tooltip content below the question mark icon */
26     left: 230px; /* Align the tooltip content with the left edge of the question mark icon */
27 }
28
29 .tooltip-content2 {
30     display: none;
31     position: absolute;
32     background-color: #fff;
33     border: 1px solid #ccc;
34     padding: 5px;
35     border-radius: 5px;
36     z-index: 1;
37     width: 150px; /* width of the tooltip content */
38     font-size: 14px; /* font size of the tooltip content */
39 }
40
41 .question-mark:hover + .tooltip-content2 {
42     display: block; /* Show the tooltip content when the question mark icon is hovered over */
43     top: 120px; /* Adjust the top position to position the tooltip content below the question mark icon */
44     left: 175px; /* Align the tooltip content with the left edge of the question mark icon */
45 }
46
47 .tooltip-content3 {
48     display: none;
49     position: absolute;
50     background-color: #fff;
51     border: 1px solid #ccc;
52     padding: 5px;
53     border-radius: 5px;
54     z-index: 1;
55     width: 150px; /* width of the tooltip content */
56     font-size: 14px; /* font size of the tooltip content */
57 }
58
59 .question-mark:hover + .tooltip-content3 {
60     display: block; /* Show the tooltip content when the question mark icon is hovered over */
61     top: 240px; /* Adjust the top position to position the tooltip content below the question mark icon */
62     left: 275px; /* Align the tooltip content with the left edge of the question mark icon */
63 }
64
65 .custom-text-color{
66     color: purple;
67 }
68
69 .btn{
70     background-color: purple;
71     border-color: purple;
72 }
73
```

(iii) Script.js file:

```

index.html # styles.css JS script.js X
JS script.js > ...
1  $(document).ready(function() {
2      $("#taxForm").submit(function(event) {
3          event.preventDefault();
4          var income = parseFloat($("#income").val());
5          var extraincome = parseFloat($("#extraincome").val());
6          var age = $("#age").val();
7          var deductions = parseFloat($("#deductions").val());
8
9          // Clear previous errors
10         $(".error-icon").hide();
11
12         // Validate input fields
13         var isValid = true;
14         if (isNaN(income) || income <= 0) {
15             $("#incomeErrorIcon").show();
16             $("#incomeErrorTooltip").show();
17             isValid = false;
18         }
19         if (isNaN(extraincome) || extraincome < 0) {
20             $("#extraincomeErrorIcon").show();
21             $("#extraincomeErrorTooltip").show();
22             isValid = false;
23         }
24         if (isNaN(deductions) || deductions < 0) {
25             $("#deductionsErrorIcon").show();
26             $("#deductionsErrorTooltip").show();
27             isValid = false;
28         }
29         if (age === "") {
30             $("#ageErrorIcon").show();
31             $("#ageErrorTooltip").show();
32             isValid = false;
33         }
34
35         if (isValid) {
36             // Calculate tax
37             var totalIncome = income + extraincome - deductions;
38             var tax = 0;
39             if (totalIncome > 800000) {
40                 if (age === "<40") {
41                     tax = 0.3 * (totalIncome - 800000);
42                 } else if (age === ">=40&<60") {
43                     tax = 0.4 * (totalIncome - 800000);
44                 } else if (age === ">=60") {
45                     tax = 0.1 * (totalIncome - 800000);
46                 }
47             }
48
49             // Display result in modal
50             displayModal(tax);
51         }
52     });
53
54     // Close modal
55     $(".close").click(function() {
56         $("#modal").hide();
57     });
58
59     $(window).click(function(event) {
60         if (event.target == $("#modal")[0]) {
61             $("#modal").hide();
62         }
63     });
64 });
65

```

```
66 function displayModal(tax) {
67     var modalResult = $("#modalResult");
68     modalResult.html("Tax: ₹" + tax.toFixed(2) + " Lakhs");
69     $("#modal").show();
70 }
71
72 // tooltip content hovering effect code
73 $(document).ready(function() {
74     $('.question-mark').on('mouseover', function() {
75         $(this).next('.tooltip-content').show();
76     }).on('mouseout', function() {
77         $(this).next('.tooltip-content').hide();
78     });
79 });
80
```

Test-Cases:

Tax Calculator

Enter gross annual income ?
Enter gross annual income

Enter extra income ?
Enter extra income from other sources

Enter age group
less than 40

Enter total applicable deductions ?
Add total applicable deductions

Submit

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- (i) Overall income (after deductions) under 8 (\leq) Lakhs is not taxed.

Your overall income will be
Tax: ₹0.00 Lakhs

Tax Calculator

Enter gross annual income ?
600000

Enter extra income ?
100000

Enter age group
less than 40

Enter total applicable deductions ?
100000

Submit

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- (ii) Overall income (after deductions) above 8 (\leq) Lakhs is taxed.

Your overall income will be
Tax: ₹60000.00 Lakhs

Tax Calculator

Enter gross annual income ?
1000000

Enter extra income ?
100000

Enter age group
less than 40

Enter total applicable deductions ?
100000

Submit

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- (iii) Income over 8 ($>$) Lakhs, the amount over 8 Lakhs is taxed at

- 30% for people with age < 40

Your overall income will be
Tax: ₹960000.00 Lakhs

Tax Calculator

Enter gross annual income ?
4000000

Enter extra income ?
0

Enter age group
less than 40

Enter total applicable deductions ?
0

Submit

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- 40% for people with age ≥ 40 but < 60

Your overall income will be
Tax: ₹1280000.00 Lakhs

Tax Calculator

Enter gross annual income ?
4000000

Enter extra income ?
0

Enter age group
greater than equal to 40 and less than equal to 60

Enter total applicable deductions ?
0

Submit

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- 10% for people with age ≥ 60

Your overall income will be
Tax: ₹320000.00 Lakhs

Tax Calculator

Enter gross annual income ?
4000000

Enter extra income ?
0

Enter age group
greater than equal to 60

Enter total applicable deductions ?
0

Submit

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- (iv) Highlight a error icon to the right of the input field. When a user enter characters in the number field then it should show the error.

The screenshot shows a 'Tax Calculator' form with the following fields and states:

- Enter gross annual income**: Input field contains 'ss'. A red error message 'Please enter numbers only' is displayed below the field. A red exclamation mark icon is in the top right corner of the input field.
- Enter extra income**: Input field contains 'd'. A red error message 'Please enter numbers only' is displayed below the field. A red exclamation mark icon is in the top right corner of the input field.
- Enter age group**: A dropdown menu with 'less than 40' selected.
- Enter total applicable deductions**: Input field contains 'g'. A red error message 'Please enter numbers only' is displayed below the field. A red exclamation mark icon is in the top right corner of the input field.
- Submit**: A blue button at the bottom right.

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- (v) If no errors are present, don't show the error icon.

The screenshot shows a 'Tax Calculator' form with the following fields and states:

- Enter gross annual income**: Input field contains '677888'. A small red dot is visible below the field.
- Enter extra income**: Input field contains '789999'. A small red dot is visible below the field.
- Enter age group**: A dropdown menu with 'less than 40' selected.
- Enter total applicable deductions**: Input field contains '7899090'. A small red dot is visible below the field.
- Submit**: A purple button at the bottom right.

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- (vi) The age dropdown field should have 3 values -
- <40
 - ≥ 40 & < 60
 - ≥ 60

Tax Calculator

Enter gross annual income ?

Enter extra income ?

Enter age group

Select an age group

Select an age group
less than 40
greater than equal to 40 and less than equal to 60
greater than equal to 60

Submit

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- (vii) If user has not entered Age value and clicks on submit, show an error icon which should show that “please select an item in the list.”

Tax Calculator

Enter gross annual income ?

Enter extra income ?

Enter age group

Select an age group

Enter total applicable tax


Submit

Please select an item in the list.


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- (viii) Error icons should not be visible in the form by default.

Tax Calculator

Enter gross annual income 


Enter gross annual income

Enter extra income 

Enter extra income from other sources

Enter age group

Select an age group

Enter total applicable deductions 

Add total applicable deductions

Submit