

Fixed Deposit Closure Calculator

Please follow below steps to integrate Fixed Deposit Closure Calculator In your website

Step 1: Add Plugins:

- JQuery: Download JQuery Plugin from the following link-
(<https://www.cdnpkg.com/datepick/file/jquery.plugin.min.js/>)
- Bootstrap: Download JQuery Plugin from the following link-
(<https://getbootstrap.com/docs/4.6/getting-started/download/>)
- Canvas Js: Download JQuery Plugin from the following link-
(<https://canvasjs.com/assets/script/canvasjs.min.js>)

Step 2: Create a HTML Page for Fixed Deposit Calculator:

- FDclosurecalculator.html:

```
<!DOCTYPE html>
<html>
<head>
  <link rel="stylesheet" href="../Plugin/bootstrap/css/bootstrap.min.css" />

  <script src="../Plugin/library/jquery-3.6.0.min.js"></script>
  <script src="../JS/FDclosureCalculator.js"></script>
  <script src="https://canvasjs.com/assets/script/canvasjs.min.js"></script>

</head>

<body class="container">
```

```

<div class="mt-3 calculator">

    <center>

        <h4 class="mb-2">Fixed Deposit Closure Calculator</h4>

    </center>

</div>

<div class="row" style="border: 3px solid #0099CC; ">

    <div class="col-8 mb-3 mt-2">

        <div>

            <button class="btn btn-primary " onclick="location.href =
'./index.html'"> Homepage </button>

        </div>

    </div>

    <div class="row">

        <div class="d-flex justify-content-start">

            <div class="col-lg-6">

                <div class="row mb-2">

                    <div class="col-md-8">

                        <label class="">Types of Customer</label>

                    </div>

                    <div class="col-md-4">

                        <div class="">

                            <input class="flex-column form-check-input" type="radio"
value="0" id="normal" name="rd"

                                checked="checked">

                            <label class="form-check-label" for="normal">Normal</label>

                        </div>

                        <div class="">

                            <input class="flex-column form-check-input" type="radio"
value="0.5" id="seniorCitizen" name="rd">

                            <label class=" form-check-label" for="seniorCitizen">Senior

```

Citizen</label>

</div>

</div>

</div>

<div class="row mb-2">

<div class="col-8"> <label class="mb-3 " for="rdCrationDate">FD Creation Date</label></div>

<div class="col-4"> <input class="form-control" type="date" id="rdCrationDate" value="2020-03-25"></div>

</div>

<div class="row mb-2">

<div class="col-8">

<label class="" for="amountOfDeposit">Amount Of Deposit</label>

</div>

<div class="col-4">

<input class="form-control" type="text" id="amountOfDeposit" value="1000" />

</div>

</div>

<div class="row mb-2">

<div class="col-8">

<label for="penaltyRate">Penalty Rate(Rate Below Notes)</label>

</div>

<div class="col-4">

<select name="interest" id="penaltyRate" class="form-select">

>

```

        <option class="dropdown-item" value="0">0</option>
        <option class="dropdown-item"
value="0.5">0.5</option>
        <option class="dropdown-item" value="1">1</option>

    </select>
</div>

</div>

<div class="row mb-2">
    <div class="col-8">
        <label class="mb-3" for="matDate">Maturity Date</label>
    </div>
    <div class="col-4">
        <!-- <p id="date" class="float-sm-end"></p> -->
        <input type="text" id="maturitydate" readonly class="form-
control disabled">
    </div>
</div>

<div class="row mb-2">
    <h6>Maturity Details</h6>
</div>

<div class="row mb-2">
    <div class="col-8 ">
        <label class="" for="rateOfIntrest">Rate Of
Interest(%</label>
    </div>
    <div class="col-4">
        <!-- <p id="rateOfIntrest" class="float-sm-end">4.9%</p> --
>
        <input type="text" id="rateOfIntrest" readonly class="form-

```

```

control disabled" value="5.2%")
    <input type="hidden" id="hdnrateOfIntrest" value="5.2">
</div>
</div>

<div class="row mb-2">
    <div class="col-8">
        <label class="" for="matAmount">Maturity Amount</label>
    </div>
    <div class="col-4">
        <!-- <p id="matAmount" class="float-sm-end"></p> -->
        <input type="text" id="maturityAmount" readonly
class="form-control disabled">
    </div>
</div>

<div class="row mb-2">
    <div class="col-8">
        <label class="" >Principle Amount</label>
    </div>
    <div class="col-4">
        <!-- <p id="matAmount" class="float-sm-end"></p> -->
        <input type="text" id="principleAmount" readonly
class="form-control disabled">
    </div>
</div>

<div class="row mb-2">
    <div class="col-8">
        <label class="mb-3" for="intrestAmount">Interest
Amount</label>

```

```

    </div>

    <div class="col-4">

        <!-- <p id="intrestAmount" class="float-sm-end"></p> -->

        <input type="text" id="intrestAmount" readonly
class="form-control disabled">

    </div>

</div>

<div class="row mb-2">

    <h6>Tenure</h6>

</div>

<div class="row mb-2">

    <div class="col-8">

        <label class="" for="year">Years</label>

    </div>

    <div class="col-4">

        <!-- <p id="year" class="float-sm-end "></p> -->

        <input type="text" id="year" readonly class="form-control
disabled">

    </div>

</div>

<div class="row mb-2">

    <div class="col-8">

        <label class="" for="month">Month</label>

    </div>

    <div class="col-4">

        <!-- <p id="month" class="float-sm-end"></p> -->

        <input type="text" id="month" readonly class="form-control
disabled">

    </div>

</div>

```

```

</div>

<!-- table -->

<div class="col-lg-6 mx-4">
  <div class=" ">
    <div class="form-check form-check-inline">
      <input class="form-check-input" type="radio"
name="inlineRadioOptions" id="graph"
      value="option1">
      <label class="form-check-label" for="inlineRadio1">
Graph</label>
    </div>
    <div class="form-check form-check-inline">
      <input class="form-check-input" type="radio"
name="inlineRadioOptions" id="table"
      value="option2" checked>
      <label class="form-check-label"
for="inlineRadio2">Table</label>
    </div>
  </div>
  <div class=" ">
    <div id="dvTableResult" class="d-block w-50">
      <table id="showTable" class="table table-bordered border-
primary w-auto">

        <tbody id="bodyshowTable">
          </tbody>

        </table>

    </div>
  </div>

```

```
        <div id="dvChartResult" class="d-none">
            <div id="chartContainer"></div>
        </div>
    </div>
</div>
</div>
</div>
</div>

</div>

</div>

</body>

</html>
```

Step 3: Create a JavaScript file for Fixed Deposit Closure Calculator:

a) FDclosureCalculator.js

```
$(function showGraphTable() {
    $("#graph").click(function () {
        $("#dvChartResult").removeClass('d-none');
        $("#dvTableResult").addClass('d-none');
    });
    $("#table").click(function () {
        $("#dvChartResult").addClass('d-none');
        $("#dvTableResult").removeClass('d-none');
    });
});
```



```

$(function() {
    //calculating Maturity Amount
    $("#penaltyRate").change(function () {
        var penaltyRate = $("#penaltyRate :selected").val();
        var customerType = $("#rd").val(); //p
        var rdCreationDate = new Date($("#rdCrationDate").val()); //i
        var timePeriod = $("#timePeriod").val(); //n
        var amountOfDeposit = $("#amountOfDeposit").val();

        var past_date = new Date(rdCreationDate);
        var current_date = new Date();

        var difference =
            current_date.getFullYear() * 12 +
            current_date.getMonth() -
            (past_date.getFullYear() * 12 + past_date.getMonth());
        console.log(difference);
        $("#month").text(difference.toFixed(0));
        var yearDiff = difference / 12;
        $("#year").text(yearDiff.toFixed(1));
        console.log(yearDiff.toFixed(1));
        var timePeriod = yearDiff + difference / 12;

        if (penaltyRate == 0) {
            $("#rateOfInterest").html(4.9+"%");
            (e = Math.pow(1 + 4.9 / 1200, timePeriod / 12)),
            (d = Math.pow(1 + 4.9 / 1200, -1 / 12));
            console.log("12");
            console.log(maturityAmount);
        } else if (penaltyRate == 0.5) {

```

```

$("#rateOfIntrest").html(4.4+"%");

(e = Math.pow(1 + 4.4 / 1200, timePeriod / 12)),
(d = Math.pow(1 + 4.4 / 1200, -1 / 12));
} else if (penaltyRate == 1) {
    $("#rateOfIntrest").html(3.9+"%");
    (e = Math.pow(1 + 3.9 / 1200, timePeriod) / 12),
    (d = Math.pow(1 + 3.9 / 1200, -1 / 12));
}

var maturityAmout = (amountOfDeposit * (e - 1)) / (1 - d);

$("#matAmount").text("Rs." + maturityAmout.toFixed(0));
$("#intrestAmount").text(
    "Rs." + (maturityAmout - amountOfDeposit * timePeriod).toFixed(0)
);

// table value
$("#finacialYear").text("FY." + rdCreationDate.getFullYear());
$("#intrest").text(
    (maturityAmout - amountOfDeposit * timePeriod).toFixed(0)
);
if (document.getElementById("graph").checked) {
    var chart = new CanvasJS.Chart("chartContainer", {
        animationEnabled: true,
        theme: "light2", // "light1", "light2", "dark1", "dark2"

        data: [
            {
                type: "column",

```

```

        dataPoints: [
            { y: 10, label: "0" },
            { y: 20, label: "1" },
            { y: 30, label: "2" },
        ],
    },
],
});
chart.render();

}
});
});

$( document ).ready(function() {
    //$("#penaltyRate").trigger( "change" );
    calculateFD();

function MonthDifference(d1, d2) {
    var months;
    months = (d2.getFullYear() - d1.getFullYear()) * 12;
    months -= d1.getMonth();
    months += d2.getMonth();
    return months <= 0 ? 0 : months;
}
function YearDifference(d1, d2) {
    var yr = [];

    for (var i=d1.getFullYear(); i<=d2.getFullYear(); i++) {
        yr.push( i );
    }
}

```

```

    }

    return yr.length-1;
}

function calculateFD(){
    var rateofintrest=5.2;
    var rdCreationDate = new Date($("#rdCracionDate").val());
    var current_date = new Date();
    var maturityAmount=0,intrestAmount=0,principleAmount=0;
    var temprdCreationDate= new Date($("#rdCracionDate").val());
    var temp1= new Date($("#rdCracionDate").val());
    var i=(rateofintrest-
    $('#penaltyRate').val()+parseFloat($('#input[name="rd"]:checked').val()));
    var arraydataPoints= [];
    var p = $("#amountOfDeposit").val(),
        n = MonthDifference(rdCreationDate,current_date),
        y=YearDifference(rdCreationDate,current_date);

    var maturity=p*Math.pow((1+((i/100)/(n/3))), (n/3)*y);

    $('#hdnrateOfIntrest').val(i.toFixed(1));
    $('#rateOfIntrest').val(i.toFixed(1));
    $('#month').val(n);
    $('#year').val(y);

    $('#maturityAmount').val(maturity.toFixed(2));
    $('#intrestAmount').val((maturity-p).toFixed(2));
    $('#principleAmount').val((p));
    $('#maturitydate').val(getTodayDate());

```

```

$('#bodyshowTable').empty();

$('#bodyshowTable').append('<tr> <td colspan="2">Financial Year Wise  
Interest Amount</td> </tr> <tr><td class="w-auto col-1">Financial  
Year</td><td class="col-1">Interest</td></tr>');

var temprdCreationDate= new Date($("#rdCratDate").val());

var yeardiff=YearDifference(new  
Date($("#rdCratDate").val()),current_date);

for(var j=0;j<yeardiff;j++){

    var newdate= new  
Date(temprdCreationDate.setFullYear(temprdCreationDate.getFullYear()+1));

    var yearwiseintrest=parseFloat(((maturity-p)/yeardiff).toFixed(2));

    $('#bodyshowTable').append('<tr><td> FY. '+ newdate.getFullYear()  
+'</td> <td>'+ ((maturity-p)/yeardiff).toFixed(2) +'</td> </tr>');

    var datapointobject={

        //y: parseFloat(((maturity-p)/2)).toFixed(2), label: newdate.getFullYear()

        y: yearwiseintrest, label: newdate.getFullYear()

    }

    arraydataPoints.push(datapointobject);

}

var chart = new CanvasJS.Chart("chartContainer", {

    animationEnabled: true,

    theme: "light2", // "light1", "light2", "dark1", "dark2"

    data: [

        {

            type: "column",

            dataPoints: arraydataPoints,

```

```

    },
  ],
});
chart.render();

}

function getTodayDate() {
  const today = new Date();
  const yyyy = today.getFullYear();
  let mm = today.getMonth() + 1; // Months start at 0!
  let dd = today.getDate();

  if (dd < 10) dd = '0' + dd;
  if (mm < 10) mm = '0' + mm;

  return dd + '/' + mm + '/' + yyyy;
}

$("#amountOfDeposit").on('keyup', function() {
  calculateFD();
});

$("#penaltyRate").change(function () {
  calculateFD();
});

$("#rdCrationDate").change(function() {calculateFD();})

$('input[name="rd"]').change(function() {calculateFD();})

```

```
});
```

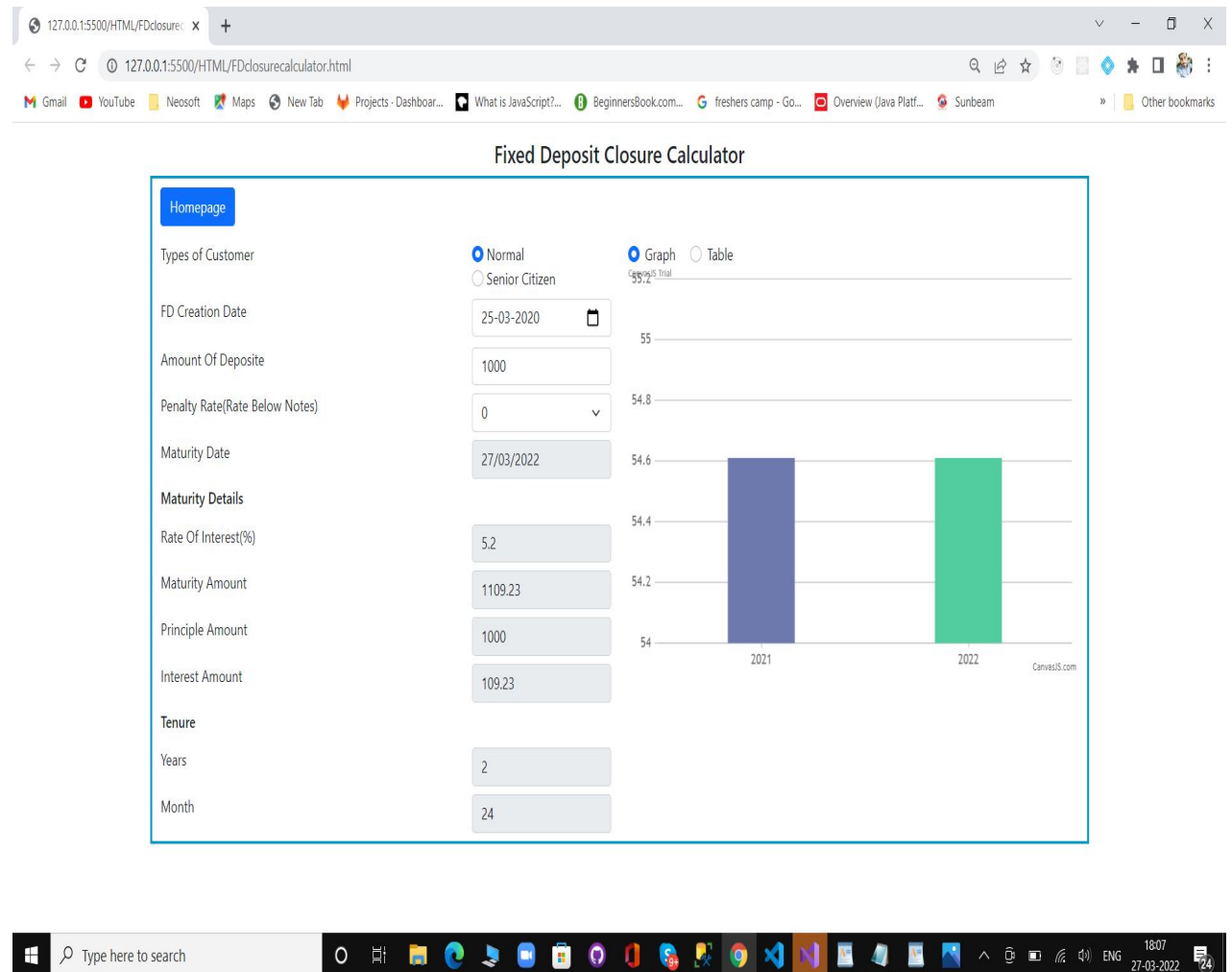
Step 4: Create a JavaScript file for Fixed Deposit Closure Calculator:

a) FDclosurecalculator.css

```
.div{  
    height: 100%;  
    border: 2px solid rgb(17, 171, 223);  
    margin-left: 20px;  
    margin: 0 auto;  
}  
h4{  
    margin-left: 20px;  
    margin: 0 auto;  
    width:fit-content;  
}  
table,td,tr{  
    text-align: center;  
}
```

Step 5: Results:

Resultant Graph for fixedDepositClosureCalculator



Resultant Table for fixedDepositClosureCalculator

127.0.0.1:5500/HTML/FDclosure< x

127.0.0.1:5500/HTML/FDclosurecalculator.html

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Fixed Deposit Closure Calculator

Homepage

Types of Customer

☒ Normal

☐ Senior Citizen

FD Creation Date

25-03-2020

Amount Of Deposit

1000

Penalty Rate(Rate Below Notes)

0

Maturity Date

27/03/2022

Maturity Details

Rate Of Interest(%)

5.2

Maturity Amount

1109.23

Principle Amount

1000

Interest Amount

109.23

Tenure

Years

2

Month

24

Graph

☒ Table

Financial Year Wise Interest Amount	
Financial Year	Interest
FY. 2021	54.61
FY. 2022	54.61

Type here to search

18:09

27-03-2022

ENG

24