

## Recurring Deposit Closure Calculator

Please follow below steps to integrate Recurring 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 Recurring Deposit Closure Calculator:

- RecurringDepositClosureCalculator.html:

```
<!DOCTYPE html>

<html>

<head>

<link rel="stylesheet" href="../Plugin/bootstrap/css/bootstrap.min.css" />

<link rel="stylesheet" href="../CSS/recurringDepositClosureCalculator.css">

<script src="../Plugin/library/jquery-3.6.0.min.js"></script>

<script src="../JS/recurringDepositClosureCalculator.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">Recurring 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">RD 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">

<div class="flex-nowrap input-group ">

<span class="input-group-text" id="addon-wrapping">₹</span>

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

</div>

</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="4.9%">

    <input type="hidden" id="hdnrateOfIntrest" value="4.9">

  </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"

```

[illegible]

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

a) RecurringDepositClosureCalculator.js

```
//Showing Graph and Table using add and remove class

$(function showGraphTable() {

    $("#graph").click(function () {

        $("#dvChartResult").removeClass("d-none");

        $("#dvTableResult").addClass("d-none");

    });

    $("#table").click(function () {

        $("#dvChartResult").addClass("d-none");

        $("#dvTableResult").removeClass("d-none");

    });

});

//Appling events for input fields and dropdowns for using non-typeable keys

(function ($) {

    $.fn.inputFilter = function (inputFilter) {

        return this.on(

            "input keydown keyup mousedown mouseup select contextmenu drop",

            function () {

                if (inputFilter(this.value)) {

                    this.oldValue = this.value;

                    this.oldSelectionStart = this.selectionStart;

                    this.oldSelectionEnd = this.selectionEnd;

                } else if (this.hasOwnProperty("oldValue")) {

                    this.value = this.oldValue;

                    this.setSelectionRange(this.oldSelectionStart, this.oldSelectionEnd);

                } else {

                    this.value = "";

                }

            }

        );

    };

});
```



```

    }

    }

    );

};

})(jQuery);

$(document).ready(function () {

    $("input[type=text]").inputFilter(function (value) {

        return /\d*$/.test(value);

    });

    //$("#penaltyRate").trigger( "change" );

    calculateRD();

    //calculate Month difference

    function MonthDifference(d1, d2) {

        var months;

        months = (d2.getFullYear() - d1.getFullYear()) * 12;

        months -= d1.getMonth();

        months += d2.getMonth();

        return months <= 0 ? 0 : months;

    }

    //calculate year difference

    function YearDifference(d1, d2) {

        var yr = [];

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

            yr.push(i);

        }

    }

});

```

```

    }

    return yr.length - 1;
}

//Calculate Maturity Amount, Intrest Amount, Principle Amount

function calculateRD() {

    var rateofintrest = 4.9;

    var arraydataPoints = [];

    var rdCreationDate = new Date($("#rdCrationDate").val());

    var current_date = new Date();

    var maturityAmount = 0,

        intrestAmount = 0,

        principleAmount = 0;

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

    var temp1 = new Date($("#rdCrationDate").val());

    var i =

        rateofintrest -

        $("#penaltyRate").val() +

        parseFloat($('input[name="rd"]:checked').val());

    var p = $("#amountOfDeposit").val(),

        n = MonthDifference(rdCreationDate, current_date),

        y = YearDifference(rdCreationDate, current_date);

    (e = Math.pow(1 + i / 400, n / 3)),

    (d = Math.pow(1 + i / 400, -1 / 3)),

    (m = (p * (e - 1)) / (1 - d));

```

```

$("#hdnrateOfIntrest").val(i.toFixed(1));

$("#rateOfIntrest").val(i.toFixed(1));

$("#month").val(n);

$("#year").val(y);


//Displays maturity Amount, Intrest Amount,Principle Amount, Show table

$("#maturityAmount").val(m.toFixed(2));

$("#intrestAmount").val((m - p * n).toFixed(2));

$("#principleAmount").val((p * n).toFixed(2));

$("#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>'

);


debugger;

var tempintrestAmount = 0;

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)

    );

    if (newdate > current_date) {

```

```

        newdate = current_date;

    }

    var p = $("#amountOfDeposit").val();

    n = MonthDifference(rdCreationDate, newdate);

    y = YearDifference(rdCreationDate, newdate);

    e = Math.pow(1 + i / 400, n / 3);

    d = Math.pow(1 + i / 400, -1 / 3);

    m = (p * (e - 1)) / (1 - d);

    maturityAmount = parseInt(m.toFixed(0));

    intrestAmount = parseInt((m - p * n).toFixed(0));

    principleAmount = parseInt(p * n.toFixed(0));

    temprdCreationDate = newdate;

    $("#bodyshowTable").append(

        "<tr><td> FY. " +

            newdate.getFullYear() +

            "</td> <td>" +

                (intrestAmount - tempintrestAmount) +

            "</td> </tr>"

    );

    var datapointobject = {

        y: intrestAmount - tempintrestAmount,

        label: newdate.getFullYear(),

    };

    arraydataPoints.push(datapointobject);

    tempintrestAmount = intrestAmount;

}

```

```
//bar chart

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

    animationEnabled: true,

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

    data: [

        {

            type: "column",

            dataPoints: arraydataPoints,

        },

    ],

});

chart.render();

}

//To get Today's date

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;

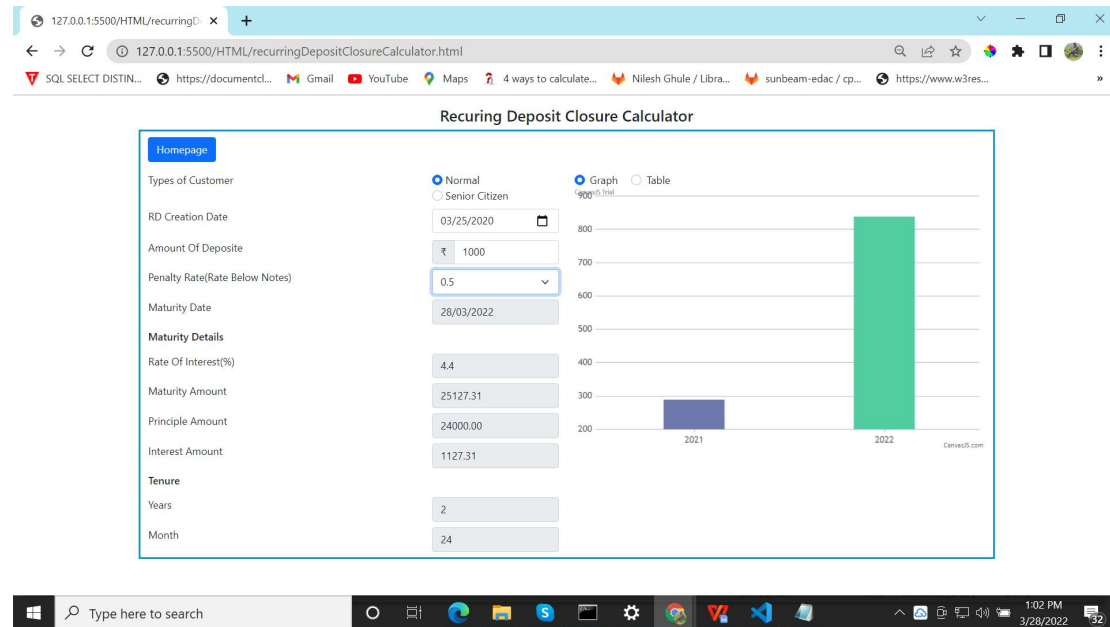
    return dd + "/" + mm + "/" + yyyy;

}
```

```
$("#amountOfDeposit").on("keyup", function () {  
    calculateRD();  
});  
  
$("#penaltyRate").change(function () {  
    calculateRD();  
});  
  
$("#rdCratDate").change(function () {  
    calculateRD();  
});  
  
$('input[name="rd"]').change(function () {  
    calculateRD();  
});  
});
```

## Step 4: Results:

### Resultant Graph for Recurring Deposit Closure Calculator:



### Resultant Table for Recurring Deposit Closure Calculator:

The screenshot displays the 'Recurring Deposit Closure Calculator' interface with the 'Table' option selected. The left sidebar contains the same input fields as the previous screenshot. On the right, a table titled 'Financial Year Wise Interest Amount' shows the interest for each financial year.

Financial Year	Interest
FY. 2021	289
FY. 2022	838

