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<?xml version="1.0" encoding="utf-8"?>
<s:Application xmlns:fx="http://ns.adobe.com/mxml/2009"
               xmlns:s="library://ns.adobe.com/flex/spark"
               xmlns:mx="library://ns.adobe.com/flex/mx"
               minWidth="955" minHeight="600">
  <fx:Declarations>
    <!-- Place non-visual elements (e.g., services, value objects)
         here -->
  </fx:Declarations>
  <fx:Script>
    <![CDATA[
      import mx.collections.ArrayList;
      [Bindable]
      public var amorList:ArrayList;

      private function clearEnable():void{
        clearBtn.enabled = true;
      }
      private function ValToMoney(Val:Number,
        ConverMethod:Number) {
        var FmtVal:String;
        var DecPos:Number;

        if (ConverMethod == 1) {
          FmtVal = new String(Math.ceil(Val *
            100) / 100);
        }
        else {
          FmtVal = new String(Math.round(Val *
            100) / 100);
        }

        DecPos = FmtVal.indexOf(".");
        if (DecPos == -1) { FmtVal
          += '.00'; }
        else if (DecPos == FmtVal.length-1) { FmtVal
          += '00'; }
        else if (DecPos == FmtVal.length-2) { FmtVal
          += '0'; }

        return FmtVal;
      }
      private function clear():void{
        priTx.text = null;
        rTx.text = null;
        nTx.text = null;
        clearBtn.enabled = false;
      }
      public function reset():void{
        aid.visible = false;
        adgl.visible = false;
        clear();
        clearBtn.enabled = true;
        emiTx.visible = false;
        emitext.visible = false;
        resetBtn.enabled = false;
      }
      public function calculateEMI():void {
        var LoanAmt:Number = parseFloat(priTx.text);
        var Rate:Number = (parseFloat(rTx.text))
          / (12*100);
        var Period:Number = parseInt(nTx.text)*12;
        var Payment:Number;

        Payment = LoanAmt * (Rate *
          Math.pow(1+Rate, Period)) / (Math.pow(1+Rate,
          Period) - 1);
    ]]>
  </fx:Script>

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        Payment = Math.ceil(Payment*100) / 100;
        emiTx.text = new String (Payment);
        emitext.visible = true;
        emiTx.visible = true;
        aid.visible=true;
        clearBtn.enabled = false;
        resetBtn.enabled = true;
    }
    public function Amortize():void {

        var Counter:Number;
        var Bal:Number;
        var Interest:Number;
        var Principal:Number;
        var TotInterest:Number;

        var LoanAmt:Number = parseFloat(priTx.text);
        var Rate:Number = parseFloat(rTx.text);
        var Payment:Number = parseFloat(emiTx.text);
        var Period:Number = parseInt(nTx.text);
        Period = Period * 12;

        if(Rate > 1){
            Rate = Rate/100;
        }
        Rate = Rate/12;

        Bal = LoanAmt;
        TotInterest = 0;

        var amortizationSchedule:Array = new Array();
        for (Counter=1; Counter <= Period;
Counter++) {
            // Calc the interest for the remaining
            balance
            Interest = Rate * Bal;
            TotInterest = TotInterest + Interest;

            // Calculate the amount of principal
            paid this month
            Principal = Payment - Interest;

            // Reduce the balance
            Bal = Bal - Principal;

            if (Bal < 0) {
                Principal = Principal + Bal;
                Bal = 0;
            }

            amortizationSchedule.push({SNO:Counter
,EMI:ValToMoney(Payment,1),InterestCom
ponent:ValToMoney(Interest,0),Principa
lComponent:ValToMoney(Principal,0),
BalanceAmount: ValToMoney(Bal,0)});

        }
        amorList = new
        ArrayList(amortizationSchedule);
        adg1.dataProvider=amorList;
        adg1.visible = true;
    }
    ]]>
</fx:Script>
<s:Label x="82" y="84" text="Principle" width="103"
fontFamily="Verdana" verticalAlign="middle"/>

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<s:Label x="82" y="118" text="Rate Of Interest" width="103"
fontFamily="Verdana" verticalAlign="middle"/>
<s:Label x="82" y="152" text="No Of Years" width="103"
fontFamily="Verdana" verticalAlign="middle"/>
<s:Label x="24" y="19" text="EMI Calculator" width="397" height="33"
fontSize="27" verticalAlign="middle" textAlign="center"
fontFamily="Verdana"/>
<s:Label x="82" y="233" text="Equated Monthly Installment"
verticalAlign="middle" fontFamily="Verdana" visible="false" id =
"emitext"/>
<s:TextInput x="202" y="74" id="priTx" tabIndex="1"
keyDown="clearEnable()"/>
<s:TextInput x="202" y="108" id="rTx" tabIndex="2"
keyDown="clearEnable()"/>
<s:TextInput x="202" y="142" id="nTx" tabIndex="3"
keyDown="clearEnable()"/>
<s:TextInput x="271" y="223" id="emiTx" enabled="false" visible =
"false"/>
<s:Button x="94" y="182" id="clearBtn" label="Clear Fields"
click="clear()" tabIndex="4" enabled="false"/>
<s:Button x="215" y="182" label="Calculate EMI" click="calculateEMI()"
tabIndex="5"/>
<s:Button x="341" y="182" label="Reset" id="resetBtn" enabled="false"
click="reset()"/>
<s:Button x="82" y="268" label="Amortization Schedule" visible="false"
click="Amortize()" tabIndex="6" id="aid"/>
<mx:DataGrid x="82" y="297" id="adg1" visible="false"
sortableColumns="false">
  <mx:columns>
    <mx:DataGridColumn headerText="Month"
dataField="SNO"/>
    <mx:DataGridColumn headerText="EMI" dataField="EMI"/>
    <mx:DataGridColumn headerText="Interest"
dataField="InterestComponent"/>
    <mx:DataGridColumn headerText="Principal"
dataField="PrincipalComponent"/>
    <mx:DataGridColumn headerText="Balance"
dataField="BalanceAmount"/>
  </mx:columns>
</mx:DataGrid>

</s:Application>
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