**Internet and Web Programming**

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**1)**

**Graphical user interface, text, application

Description automatically generated**

**Html:**

<!DOCTYPE html>

<html lang="en" dir="ltr">

   <head>

      <meta charset="utf-8">

      <title>Password Strength</title>

      <link rel="stylesheet" href="style.css">

   </head>

   <body>

     <div class="top">

       Password Strength Checker

     </div>

      <div class="container">

         <header>Enter your password here</header>

         <form action="#">

            <div class="field">

               <input onkeyup="trigger()" type="password" placeholder="Type password">

               <span class="showBtn">SHOW</span>

            </div>

            <div class="indicator">

               <span class="weak"></span>

               <span class="medium"></span>

               <span class="strong"></span>

               <span class="uncrackable"></span>

            </div>

            <div class="text"></div>

         </form>

         <div class="sujs">

          <button onclick="myFunction()">Suggest a passoword</button>

          <p id="hi"></p>

         </div>

      </div>

      <script>

         const indicator = document.querySelector(".indicator");

         const input = document.querySelector("input");

         const weak = document.querySelector(".weak");

         const medium = document.querySelector(".medium");

         const strong = document.querySelector(".strong");

         const uncrack=document.querySelector(".uncrackable");

         const text = document.querySelector(".text");

         const showBtn = document.querySelector(".showBtn");

         function myFunction()

         {

          var length = 8,

        charset = "abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789",

        retVal = "";

    for (var i = 0, n = charset.length; i < length; ++i) {

        retVal += charset.charAt(Math.floor(Math.random() \* n));

        }

        document.getElementsById("hi").innerHTML(retVal);

         }

         let regExpWeak = /[a-z]/;

         let regExpMedium = /\d+/;

         let regExpStrong = /.[!,@,#,$,%,^,&,\*,?,\_,~,-,(,)]/;

         let up= /[A-Z]/;

         function trigger(){

           if(input.value != ""){

             indicator.style.display = "block";

             indicator.style.display = "flex";

             if(input.value.match(regExpWeak) || input.value.match(regExpMedium)||input.value.match(regExpStrong) )no=1 ;

             if((input.value.match(regExpWeak) && input.value.match(regExpMedium)))no=2;

             if(input.value.match(regExpWeak) && input.value.match(regExpMedium) && input.value.match(up))no=3;

             if(input.value.match(regExpWeak) && input.value.match(regExpMedium) && input.value.match(regExpStrong)&& input.value.match(up))no=4;

             if(no==1){

               weak.classList.add("active");

               text.style.display = "block";

               text.textContent = "Your password is Weak";

               text.classList.add("weak");

             }

             if(no==2){

               medium.classList.add("active");

               text.textContent = "Your password is Moderate";

               text.classList.add("medium");

             }else{

               medium.classList.remove("active");

               text.classList.remove("medium");

             }

             if(no==3){

               weak.classList.add("active");

               medium.classList.add("active");

               strong.classList.add("active");

               text.textContent = "Your password is strong";

               text.classList.add("strong");

             }else{

               strong.classList.remove("active");

               text.classList.remove("strong");

             }

             if(no==4){

               weak.classList.add("active");

               medium.classList.add("active");

               strong.classList.add("active");

               uncrack.classList.add("active");

               text.textContent = "Your password is Uncrackable";

               text.classList.add("uncrackable");

             }else{

               uncrack.classList.remove("active");

               text.classList.remove("uncrackable");

             }

             showBtn.style.display = "block";

             showBtn.onclick = function(){

               if(input.type == "password"){

                 input.type = "text";

                 showBtn.textContent = "HIDE";

                 showBtn.style.color = "#23ad5c";

               }else{

                 input.type = "password";

                 showBtn.textContent = "SHOW";

                 showBtn.style.color = "#000";

               }

             }

           }else{

             indicator.style.display = "none";

             text.style.display = "none";

             showBtn.style.display = "none";

           }

         }

      </script>

   </body>

</html>

**CSS:**

\*{

  margin: 0;

  padding: 0;

  box-sizing: border-box;

  font-family: 'Poppins', sans-serif;

}

.top{

  color: #CEF0D4;

   font-family: 'Rouge Script', cursive;

    font-size: 50px;

     font-weight: normal;

      line-height: 48px;

       margin: 0 0 50px;

        text-align: center;

         text-shadow: 1px 2px #082b34;

}

html,body{

  display: grid;

  height: 100%;

  place-items: center;

  text-align: center;

  background: #f2f2f2;

}

.container{

  background: #fff;

  padding: 10px 30px;

  width: 420px;

  border-radius: 5px;

  box-shadow: 0 0 15px rgba(0,0,0,0.2);

}

.container header{

  font-size: 24px;

  font-family: 'Rouge Script', cursive;

  font-weight: 600;

  line-height: 33px;

  text-shadow: 1px #082b34;

}

.container form{

  margin: 20px 5px 10px 5px;

  position: relative;

}

.container form .field{

  height: 45px;

  width: 100%;

  display: flex;

  position: relative;

}

form .field input{

  width: 100%;

  height: 100%;

  border: 1px solid lightgrey;

  padding-left: 15px;

  outline: none;

  border-radius: 5px;

  font-size: 17px;

  transition: all 0.3s;

}

form .field input:focus{

  border-color: #27ae60;

  box-shadow: inset 0 0 3px #2fd072;

}

form .field .showBtn{

  position: absolute;

  right: 10px;

  top: 50%;

  transform: translateY(-50%);

  font-size: 15px;

  font-weight: 600;

  cursor: pointer;

  display: none;

  user-select: none;

}

form .indicator{

  height: 10px;

  margin: 10px 0;

  display: flex;

  align-items: center;

  justify-content: space-between;

  display: none;

}

form .indicator span{

  position: relative;

  height: 100%;

  width: 100%;

  background: lightgrey;

  border-radius: 5px;

}

form .indicator span:nth-child(2){

  margin: 0 3px;

}

form .indicator span.active:before{

  position: absolute;

  content: '';

  top: 0;

  left: 0;

  height: 100%;

  width: 100%;

  border-radius: 5px;

}

.indicator span.weak:before{

  background-color: #ff4757;

}

.indicator span.medium:before{

  background-color: orange;

}

.indicator span.strong:before{

  background-color: blue;

}

.indicator span.uncrackable::before{

    background-color: #23ad5c;

}

form .text{

  font-size: 20px;

  font-weight: 500;

  display: none;

  margin-bottom: -10px;

}

form .text.weak{

  color: #ff4757;

}

form .text.medium{

  color: orange;

}

form .text.strong{

  color: blue;

}

form .text.uncrackable{

    color: #23ad5c;

  }

**2)**

**Graphical user interface, text, application

Description automatically generated**

<!DOCTYPE html>

<html>

<head lang="en">

<title>Balance Calculator</title>

<meta charset="utf-8"/>

<script type="text/javascript">

function getBalance()

{

var accountNumber = prompt("Please enter 'Account Number'", "0");

var balance = prompt("Please enter 'Balance at the beginning of month'", "0");

var totalCharges = prompt("Please enter 'Total of all items charged this month'", "0");

var totalCredits = prompt("Please enter 'Total of all credits applied this month'", "0");

var totalCreditsAvailable = prompt("Please enter 'Allowed credit limit'", "0");

document.getElementById("lblAccountNumber").innerHTML = accountNumber;

document.getElementById("lblAccountBalance").innerHTML = balance;

document.getElementById("lblMonthCharges").innerHTML = totalCharges;

document.getElementById("lblAccountCredits").innerHTML = totalCredits;

document.getElementById("lblCreditLimit").innerHTML = totalCreditsAvailable;

var availableBalance = parseInt(balance) + (parseInt(totalCredits) - parseInt(totalCharges));

if(availableBalance > 0)

document.getElementById("lblNewBalance").innerHTML = availableBalance;

else

document.getElementById("lblNewBalance").innerHTML = availableBalance + " (Credit Balance Exceeded.)";

}

</script>

</head>

<body onload="getBalance();">

<table style="width:100%;">

<tr>

<td colspan="4" style="width:100%;"><hr/></td>

</tr>

<tr>

<td style="width:20%;">

Account number

</td >

<td style="width:10%;">

<label id="lblAccountNumber"></label>

</td>

<td style="width:20%;">

Balance at the beginning of the month

</td>

<td style="width:50%;">

<label id="lblAccountBalance"></label>

</td>

</tr>

<tr>

<td style="width:20%;">

Total of all items charged this month

</td>

<td style="width:10%;">

<label id="lblMonthCharges"></label>

</td>

<td style="width:20%;">

Total of all credits applied to account this month

</td>

<td style="width:50%;">

<label id="lblAccountCredits"></label>

</td>

</tr>

<tr>

<td style="width:20%;">

Allowed credit limit

</td>

<td colspan="3" style="width:80%;">

<label id="lblCreditLimit"></label>

</td>

</tr>

<tr>

<td style="width:20%;">

<b>New Balance</b>

</td>

<td colspan="3" style="width:80%;">

<b><label id="lblNewBalance"></label></b>

</td>

</tr>

<tr>

<td colspan="4" style="width:100%;">

<button onclick="getBalance();">Calculate Again</button>

</td>

</tr>

</table>

</body>

</html>