

PSP0 Project Plan Summary

Student	1702861 - Sergio Osvaldo Magaña González	Date	14-Sept-2020
Program	Calculo de la Media y la desviación estándar	Program #	01
Instructor	Dr. Felipe de Jesús Rodríguez García	Language	Java script

Time in Phase (min.)	Plan	Actual	To Date	To Date %
Planning		17	17	7.6%
Design		21	21	9.5%
Code		44	44	19.9%
Compile		92	92	41.6%
Test		35	35	15.83%
Postmortem		12	12	5.4%
Total	480	221	221	100%

Defects Injected	Actual	To Date	To Date %
Planning	1	1	25 %
Design			
Code	3	3	75 %
Compile			
Test			
Total Development	4	4	100 %

Defects Removed	Actual	To Date	To Date %
Planning	1	1	25 %
Design			
Code			
Compile	2	2	50 %
Test	1	1	25 %
Total Development	4	4	100 %
After Development			

PSP Time Recording Log

Student 1702861 – Sergio Osvaldo Magaña Gonzalez

Date 14 – Sept - 2020

Program	Calculo de la media y la desviacion estandar
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Program #	01
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Instructor Dr. Felipe de Jesus Rodriguez García

Language	JavaScript
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[illegible]

PSP Defect Recording Log

Defect Types	
10 Documentation	60 Checking
20 Syntax	70 Data
30 Build, Package	80 Function
40 Assignment	90 System
50 Interface	100 Environment

Student	1702861 – Sergio Osvaldo Magaña Gonzalez	Date	14 – Sept - 2020
Program	Calculo de la media y la desviacion estandar	Program #	01
Instructor	Dr. Felipe de Jesus Rodriguez García	Language	JavaScript

Project	Date	Number	Type	Inject	Remove	Fix Time	Fix Ref.
Programa 1	13.Sept	01	10	Planeacion	Planeacion	10	x

Description: Comprender la documentacion, asignar un orden

Project	Date	Number	Type	Inject	Remove	Fix Time	Fix Ref.
Programa 1	13.Sept	02	80	Codigo	Compilacion	34	X

Description: Leer las variables y guardar en la lista

Project	Date	Number	Type	Inject	Remove	Fix Time	Fix Ref.
Programa 1	13.Sept	03	80	Codigo	Compilacion	40	X

Description: Defecto en la logica de leer y resolver el problema, primero me hacia la operacion y despues leia los datos capturados

Project	Date	Number	Type	Inject	Remove	Fix Time	Fix Ref.
Programa 1	14-Sept	04	60	Codigo	Test	15	

Description: Defecto en imprimir los resultados

Project	Date	Number	Type	Inject	Remove	Fix Time	Fix Ref.

Description:

Project	Date	Number	Type	Inject	Remove	Fix Time	Fix Ref.

Description:

Project	Date	Number	Type	Inject	Remove	Fix Time	Fix Ref.

Description:

Project	Date	Number	Type	Inject	Remove	Fix Time	Fix Ref.

Description:

```
<!DOCTYPE html>
<html>

<head>
  <meta charset="utf-8">
  <meta http-equiv="x-ua-compatible" content="ie=edge">
  <title>
    ESTIMACIÓN Y PLANEACION DE SOL. COMP. B ING. DE S.
  </title>
  <meta name="description" content="">
  <meta name="viewport" content="width=device-width, initial-scale=1">

  <!-- Bootstrap 4-->
  <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/
  4.4.1/css/bootstrap.min.css" integrity="sha384-
  Vkoo8x4CGsO3+Hhxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh" crossorigin="anonymous">
  <!-- iconos -->
  <script src="https://kit.fontawesome.com/86322b1947.js" crossorigin="anony
  mous"></script>
  <!-- Barra -->
  <link href="https://fonts.googleapis.com/css?family=Raleway:400,300,600,80
  0,900" rel="stylesheet" type="text/css">

  <!-- JQUERY PARA USAR AJAX -->
  <script
  src="https://code.jquery.com/jquery-3.3.1.min.js"
  integrity="sha256-FgpCb/KJQlLNfOu91ta32o/NMZxltwRo8QtmkMRdAu8="
  crossorigin="anonymous"></script>

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

  <!-- CSS only -->
  <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/
  4.5.0/css/bootstrap.min.css" integrity="sha384-
  9aIt2nRpC12Uk9gS9baDl411NQApFmC26EwAOH8WgZl5MYYYxFfc+NcPb1dKGj7Sk" crossorigin="anonymous">

  <!-- JS, Popper.js, and jQuery -->
  <script src="https://code.jquery.com/jquery-
  3.5.1.slim.min.js" integrity="sha384-
  DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj" crossorigin="anonymous"></script>
```

```

<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js" integrity="sha384-Q6E9RHvbIyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo" crossorigin="anonymous"></script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/js/bootstrap.min.js" integrity="sha384-OgVRvuATP1z7JjHLkuOU7Xw704+h835Lr+6QL9UvYjZE3Ipu6Tp75j7Bh/kR0JKI" crossorigin="anonymous"></script>

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
<script type="text/javascript" src="js/Lista.js"></script>
</head>

<body>
  <h5>Tarea 1</h5>

  <div class="container-fluid">

    <div class="card">
      <div class="card-header">
        <section class="col-md-12">
          <section class="row">
            <div class="col-md-12">
              <p>Using PSP0, write a program to calculate the mean and standard deviation of a set of n real numbers.
                Your program can read the n real numbers from the keyboard,
                a file, or some other source. Use a linked list to store the n numbers for the calculations. If necessary, a variable or static array(s), database, or other data structure(s) may be used to hold the data. Thoroughly test the program. At least two tests should use the data in the columns of Table 1.
                Expected results are provided in Table 2.</p>
            </div>

            <div class="col-md-3">
              <div class="form-group">

```

```

        <input type="text" class="form-
control" id="Dato" name="Dato" maxlength="128"
        placeholder="Escribir número real" required>
    </div>
</div>

```

```

    <div class="col-12">
        <button type="submit" class="btn btn-
dark" onclick="Agregar()">Agregar</button>
    </div>

```

```

    </section>

```

```

</section>

```

```

</div>

```

```

<div class="card-body">

```

```

    <!--==== SECCION DE Lista ====-->

```

```

    <div class="border bg-secondary text-white">
        <input type="text" class="form-
control" id="Lista" name="Dato" maxlength="128"
        placeholder="Escribir número real">
    </div>

```

```

    <br>

```

```

    <!--==== Button ====-->

```

```

    <div class="form-row text-center">
        <div class="col-12">
            <button type="submit" class="btn btn-
dark" onclick="Calcular()">Calcular</button>
        </div>
    </div>

```

```

    </div>

```

```

</div>

```

```

</div>

```

```

</div>

```

```

<!-- Modal Encuesta Vacía-->

```

```

<div class="modal fade" id="myModalVacio" tabindex="-
1" role="dialog" aria-labelledby="exampleModalLabel"
    aria-hidden="true">

```

```

    <div class="modal-dialog" role="document">

```

```

        <div class="modal-content">

```

```

            <div class="modal-header">

```

```

                <h5 class="modal-title">Resultados</h5>
            </div>

```

```

            <div class="modal-body">

```

```

                <div class="border  ">

```

```

        <p>Media: <span id="Media"></span></p>
    </div>
    <hr>
    <!--===== SECCION DE Desviacion =====>
    <div class="border ">
        <p>Desviación: <span id="Desviacion"></span></p>
    </div>
</div>
<div class="modal-footer">
    <button type="button" class="btn btn-dark" data-
dismiss="modal">Cerrar</button>
</div>
</div>
</div>
</body>

</html>

```

```

function list() {
    this.head = null;
    this.tail = null;
    this.long = null;

    this.createNode = function (data) { //Constructor
        return {
            data: data,
            next: null
        }
    };

    this.addNode = function (data) { //Agregar nodo
        if (this.head == null) {
            this.tail = this.createNode(data);
            this.head = this.tail;
            this.long++;
        } else {
            this.tail.next = this.createNode(data);
            this.tail = this.tail.next;
            this.long++;
        }
        this.MostrarLista();
    };
};

```

```

this.printNode = function () { //Imprimir cada nodo
    var x = this.head;
    var dato="";
    while (x != null) {
        dato += x.data+"-";
        x = x.next;
    }
    return dato;
};

this.getMedia = function () { //Calcular la media con todos los nodos
    var x = this.head;
    let resultado = 0;

    while (x != null) {
        resultado = resultado + parseInt(x.data);
        x = x.next;
    }
    resultado = resultado / this.long;
    return resultado;
}

this.getDesviacionST = function () { //Calcula la desviacion estandar
    var Media = this.getMedia();
    var x = this.head;
    let Sumatoria = 0;
    let Desviacion = 0;
    while (x != null) {
        Sumatoria = Sumatoria + Math.pow((x.data - Media), 2);
        x = x.next;
    }
    Desviacion = Math.sqrt((Sumatoria / (this.long - 1)));
    return Desviacion;
}

this.MostrarLista = function () { //Imprime la lista en el div
    var x = this.printNode(); //Trae los valores de la lista
    document.getElementById("Lista").value = x;
}

this.MostrarMedia = function () {
    var x = this.getMedia();
    var N_Nodo = document.getElementById("Media");

```



```

        var newText = document.createTextNode(x);
        N_Nodo.textContent = "";
        N_Nodo.appendChild(newText);
    }

    this.MostrarDesviacion = function () {
        var x = this.getDesviacionST();//Muestra resultado de Desviacion
        var N_Nodo = document.getElementById("Desviacion");
        var newText = document.createTextNode(x);
        N_Nodo.textContent = "";
        N_Nodo.appendChild(newText);
    }
}

const linkedList = new list();

function Agregar() {
    var dato = document.getElementById("Dato").value;
    linkedList.addNode(dato);
    document.getElementById("Dato").value = "";
}

function Calcular() {
    linkedList.MostrarMedia();
    linkedList.MostrarDesviacion();

    $("#myModalVacio").modal();
}

```