## **PSP0 Project Plan Summary**

Student	1702861 - Sergio	Osvaldo Ma	Date	14-Sept- 2020	
Program	Calculo de la Med	ia y la desvi	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	<u> </u>	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 Remove	ed		Actual	To Date	To Date %
Planning			1	1	25 %
Design					
Code					
Compile			2	2	50 %
Test			1	1	25 %
Total Develop	ment		4	4	100 %
After Developn	nent				

## **PSP Time Recording Log**

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	Phase	Start Date and Time	Int. Time	Stop Date and Time	Delta Time	Comments
Programa 1	Planeacion	13 Septiembre 2020 -12:00		13 Septiembre 2020 -12:17	17	
Programa 1	Diseño	13 Septiembre 2020 -12:17		13 Septiembre 2020 -12-38	21	
Programa 1	Codigo	13 Septiembre 2020 -12:38	30	13 Septiembre 2020 -13:52	44	Tiempo interrumpido por la hora de comida.
Programa 1	Compilar	13 Septiembre 2020 -13:52		13 Septiembre 2020 -15:24	92	
Programa 1	Pruebas	14 Septiembre 2020 -14:37		14 Septiembre 2020 -15:12	35	
Programa 1	Postmorte m	14 Septiembre 2020 -15:13		14 Septiembre 2020 -15:25	12	

## **PSP Defect Recording Log**

Defect Types 10 Documentation 20 Syntax 30 Build, Package 40 Assignment 50 Interface 60 Checking 70 Data 80 Function 90 System 100 Environment 14 - Sept - 2020

Student	1702861 – Sergio Osvaldo Magaña Gonzalez			Date14 - 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	Plane	Planeacio	10	X
				acion	n		
Description:	Comprende	r la documen	itacion, asign	nar un order	n		
Project	Date	Number	Type	Inject	Remove	Fix Time	Fix Ref.
Programa 1	13.Sept	02	80	Codig	Compilac	34	X
				0	ion		
Description:	Leer las var	iables y guard	dar en la lista	ì			
Project	Date	Number	Type	Inject	Remove	Fix Time	Fix Ref.
Programa 1	13.Sept	03	80	Codig	Compilac	40	X
				0	ion		
Description:	Defecto en	la logica de le	eer y resolve	r el problen	na, primero me l	nacia la operaci	on y despues
	leia los dato	os capturados	-			_	
Project	Date	Number	Type	Inject	Remove	Fix Time	Fix Ref.
Programa 1	14-Sept	04	60	Codig	Test	15	
				0			
Description:	Defecto en	imprimir los	resultados				
Project	Date	Number	Type	Inject	Remove	Fix Time	Fix Ref.
Description:			·				
Project	Date	Number	Туре	Inject	Remove	Fix Time	Fix Ref.
Description:							
-							
Project	Date	Number	Type	Inject	Remove	Fix Time	Fix Ref.
,							
Description:							
1							
Project	Date	Number	Туре	Inject	Remove	Fix Time	Fix Ref.
Description:							L
T .							

```
<!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">
<!-- Boostrap 4-->
<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/</pre>
4.4.1/css/bootstrap.min.css" integrity="sha384-
Vkoo8x4CGsO3+Hhxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh" crossori
gin="anonymous">
<script src="https://kit.fontawesome.com/86322b1947.js" crossorigin="anony</pre>
mous"></script>
<!-- Barra -->
<link href="https://fonts.googleapis.com/css?family=Raleway:400,300,600,80</pre>
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/</pre>
4.5.0/css/bootstrap.min.css" integrity="sha384-
9aIt2nRpC12Uk9gS9baD1411NQApFmC26EwAOH8WgZ15MYYxFfc+NcPb1dKGj7Sk" crossori
gin="anonymous">
<!-- JS, Popper.js, and jQuery -->
<script src="https://code.jquery.com/jquery-</pre>
3.5.1.slim.min.js" integrity="sha384-
DfXdz2htPH01sSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj" crossori
gin="anonymous"></script>
```

```
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper</pre>
.min.js" integrity="sha384-
Q6E9RHvbIyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo" crossori
gin="anonymous"></script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/js/bootstr</pre>
ap.min.js" integrity="sha384-
OgVRvuATP1z7JjHLkuOU7Xw704+h835Lr+6QL9UvYjZE3Ipu6Tp75j7Bh/kR0JKI" crossori
gin="anonymous"></script>
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4</pre>
.1/css/bootstrap.min.css">
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min</pre>
.js"></script>
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.</pre>
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">
              Using PSP0, write a program to calculate the mean and sta
ndard 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 t
he n numbers for the calculations. If
                necessary, a variable or static array(s),
                database, or other data structure(s) may be used to hold t
he data. Thoroughly test the program. At
                least two tests should use the data in the columns of Tabl
e 1.
                Expected results are provided in Table 2.
            </div>
            <div class="col-md-3">
              <div class="form-group">
```

```
<input type="text" class="form-</pre>
control" id="Dato" name="Dato" maxlength="128"
                  placeholder="Escribir número real" required>
              </div>
            </div>
            <div class="col-12">
              <button type="submit" class="btn btn-</pre>
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-</pre>
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-</pre>
dark" onclick="Calcular()">Calcular</button>
          </div>
        </div>
      </div>
    </div>
  </div>
  <!-- Modal Encuesta Vacia-->
  <div class="modal fade" id="myModalVacio" tabindex="-</pre>
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 ">
```

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