# Web Programming 1

Web Programming 1(WEPR1)				
Test Number	1			
Year	2023			
Internal Examiner	David Fourie			
Total Marks	120			
Release Date and time	07 July 2023 @08:00			
Submission Date and time	14 July 2023 @23:45			
	Practical 100 Marks			
Section A	Comments	10 Marks		
	Code executes successfully	10 Marks		

## Instructions to Candidates:

1. Read carefully what needs to be done in this practical assessment.

### Important Notes:

- This test paper consists of 13 pages
- This test contributes 50% towards the final mark.









Section A (100)

US115367

US115392

You are the new JAVASCRIPT programmer at a startup company called "New Future pty (LTD)".

The senior project manager and business analyst approached you to fill a gap identified and write a Java program that implements a task management application. The application should allow users to perform the following actions:

- Add a task with a title and description.
- Mark a task as completed by providing its ID.
- List all tasks with their IDs, titles, and completion status.
- Delete a task by providing its ID.
- Exit the application.

You should create two classes: Task and TaskManager. The Task class should have properties for ID, title, description, and completion status. The TaskManager class should manage a collection of tasks and provide methods for adding, marking, listing, and deleting tasks.

Implement the application by creating a function runTaskManager() that handles user input and performs the corresponding actions based on their choices. The application should run in a command-line interface (CLI) and use the readline module for user input.

Write the complete JavaScript code for the task management application, including the 'Task' and 'TaskManager' classes, the 'runTaskManager()' function, and the necessary input/output handling. Make sure to include comments to explain the major steps and logic in your code.

Test the application by adding tasks, marking tasks as completed, listing all tasks, and deleting tasks. Handle any potential errors or invalid user input gracefully.

Provide the code along with the comments explaining the functionality and logic used in your implementation.









#### Output should be as follow:

#### Step 1 (Add a task)

You should be able to add multiple tasks

#### Step 2 (Mark a task as completed)

There should be an X next to the task indicating that the task was completed as seen in the next step when list tasks is selected.









#### Step 3 (List tasks)

## 

If there is no tasks the following should display:

```
Task Management Application
------

1. Add a task
2. Mark a task as completed
3. List tasks
4. Delete a task
5. Exit
Enter your choice: 3
No tasks found.
```

#### Step 4 (Delete a task)

```
Task Management Application
------

1. Add a task
2. Mark a task as completed
3. List tasks
4. Delete a task
5. Exit
Enter your choice: 4
Enter task ID to delete: 1
Task deleted successfully.
```









If there is no tasks the following should display:

```
Task Management Application
------

1. Add a task
2. Mark a task as completed
3. List tasks
4. Delete a task
5. Exit
Enter your choice: 4
Enter task ID to delete: 4
Task not found.
```

#### Step 5 (Exit)

Copy and paste your code here (Please upload the actual code in notepad as well when uploading this document as evidence):









```
let readline = require('readline');
let readLine = readline.createInterface({
  input: process.stdin,
  output: process.stdout
const taskArray = []; //Array to store tasks
let taskIdNumber = 1; //initial number for the task id number
function createTaskId() {
 return taskIdNumber++;
function displayOptions() {
  console.log('\n Task Manager Application\n');
  console.log('1. Add a Task');
  console.log('2. Mark a Task as Completed');
  console.log('3. List All Tasks');
  console.log('4. Delete a Task');
  console.log('5. Exit');
  readLine.question('Enter task title: ', title => {
    readLine.question('Enter task description: ', description => {
      let taskId = createTaskId();
      taskArray.push({ id: taskId, title, description, completed: false });
      console.log(`Task "${title}" added with ID: ${taskId}`);
function markTaskAsCompleted() {
  \begin{tabular}{ll} readLine.question('Enter the task ID to mark as completed: ', taskId => \{ \\ \end{tabular}
    taskId = Number(taskId);
    const task = taskArray.find(task => task.id === taskId);
    if (task) {
      task.completed = true;
      console.log(`Task "${task.title}" marked as completed.`);
    } else {
     console.log('Task not found.');
   userInput();
  if (taskArray.length === 0) {
    console.log('No tasks available.');
  } else {
    console.log('Tasks:');
    taskArray.forEach(task => {
      let status = task.completed ? '[X] Completed' : '[ ] Incomplete';
      console.log(`ID: ${task.id}, ${status} ${task.title}`);
  displayOptions();
  readLine.question('Enter the task ID to delete: ', taskId => {
    taskId = Number(taskId);
    let taskIndex = taskArray.findIndex(task => task.id === taskId);
    if (taskIndex !== -1) {
      const deletedTask = taskArray.splice(taskIndex, 1);
      \verb|console.log(`Task "${deletedTask[0].title}" with ID $$\{taskId\} deleted.`);|
      console.log('Task not found.');
```

















SUBTOTAL: [100]

TOTAL: [100]

Mark allocation for student						
Section	Sub-section	Maximum Mark	Learner mark			
Costion	Question 1	100				
Section A	Code comments used	10				
Code executes successfully (No errors shown)		10				
Total:		120				









### PRE-ASSESSMENT AGREEMENT

# Assessment Preparation: Preparing the Candidate

Student name and		dzwa Chiripanyanga [		:e	17/0	)9/2023
surname	TalaUZ	Tir		ne	16:0	0
Assessor name and surname			Ver	nue	Onli	ine
How to prepare t candidate	he	Document Requireme	nts	Agr (tic		Action Required
Explain to the candidat you are meeting and the purpose of the assessm	ne	Assessment Policy Assessment process		,	<b>/</b>	
Discuss the assessment in detail.	plan	Assessment strategy		,	<b>/</b>	
Explain assessment pro show assessment instru to candidate and descr assessment conditions.	iments	Assessment instruments		,	<b>/</b>	
Identify the role-player during assessment.	Identify the role-players during assessment.		Assessors Moderator		/	
Describe the evidence required to be declared competent.		Examples of evidence		,	<b>/</b>	
Explain how evidence v judged.	vill be	Mark allocation explained	d	,	<b>/</b>	
Explain to the candidat to prepare: Give candid assessment task descrip	date	Assessment task description		,	<b>/</b>	
Confirm with the candidate what he/she should bring to the assessment.		Detailed briefing on exact requirements to be given to candidate in writing		,	<b>✓</b>	
Ensure that candidate understands the proces of all assessment practi		Appeals Policy Appeals procedure Assessment Policy Assessment Procedure Moderation Policy Moderation procedure Verification Policy		,	<b>/</b>	









	Verification Procedure		
Ask the candidate if he/she foresees any problems or identify any special needs.	List needs	<b>✓</b>	

Agreed Assessment Plan					
Student name and surname:		Tafadzwa Chiripanyanga			
Assessor name and surname:					
Module name:		Web Programming 1			
Unit Standard/s:		US115367			
		US115392			
Type of Assessment i.e. Formative assignment, Formative test, Formative Practical, Summative etc.		Summative Assessment 1			
Special Assessment Rec	uirements:	N/A			
Event	Date, time and location	Resources required	Evidence to be generated		
Assessments due date		Assessments	Completed documentation		
Complete activity on MyAIE and upload to MyAIE			Completed Portfolio of Evidence		
Submit Portfolio of Evidence					

Assessor Roles and Responsibility				
Roles	Assessor			
	Guide			
	Feedback Agent			
	Reviewer			
Responsibilities	Consult candidate re-assessment, assessment process and plan.			
	Agree assessment process and plan with candidate.			
	Forward documentation to candidate: plan, guide and assessment instruments.			
	Assess candidate with the use of different instruments.			
	Provide feedback on assessment findings.			
	Support candidate through assessment process.			









Source feedback from candidate on assessment process.

Review assessment process and outcome.

Use assessment process as opportunity to transform assessment activities and outcomes.

Candidate Roles and Responsibility					
Roles	<ul><li>Leaner</li><li>Feedback agent</li><li>Reviewer</li></ul>				
Responsibilities	<ul> <li>Be available for assessment.</li> <li>Be actively involved in the consultative process.</li> <li>Learn from the assessment process.</li> <li>Provide feedback to the assessor in terms of the assessment as learning activity.</li> <li>Provide feedback to the assessor on the efficacy of the assessment process.</li> <li>Review own role and assessor role in the assessment process.</li> </ul>				
Assessment Instruments	<ul> <li>Portfolio of Evidence</li> <li>Questionnaire</li> <li>Report</li> <li>Presentation</li> <li>Reflexive questions</li> <li>Work sample</li> <li>Practical's</li> <li>Group Activity</li> <li>Research activities</li> </ul>				

#### Assessment Process

- Evaluation of POE addressing Essential Embedded Knowledge in unit standards.
- Evaluation of Research Projects and other evidence addressing specific unit standards.
- Consultation: assessment plan and assessment activities and instruments. Pre-assessment moderation and interviews conducted at this stage.
- Observation: feedback on assessment against specific outcomes, critical outcomes in unit standards.
- Feedback: to candidate regarding sufficiency of evidence and possible interview to gain supplementary evidence.
- Feedback to candidate regarding assessment findings as well as review process.

Feedback Written feedback to be given to all stakeholders at the end of the









	assessment process, as well as verbal feedback to the candidate during assessment activities.
Recording Process	Process and findings to be recorded and submitted for record keeping purposes as well as moderation and verification.
Review Process	The review process is the responsibility of the assessor and the candidate. Joint reviewing will take place after feedback has been given to the candidate.
Right to appeal	The candidate must be advised of the right to appeal.
Resources Required	Assignments  POE Assessments Guides

#### I confirm that:

- I have been consulted on and have agreed to the training and assessment process as detailed in the assessment guide.
- I have been advised of my right to appeal against any assessment that is unfair, unreliable, invalid or impracticable.
- I have read and understood the appeal procedure.
- I know that assessments may be moderated or verified by an external party.
- The purpose of the assessment has been clearly explained to me.
- The criteria have been discussed with me, and I know I will be assessed against these criteria.
- I know when and where I will be assessed, and I was given fair notice.
- I know how the assessment will be done, and any other requirements related to the assessment.

Signed	_7afadzwa			Date	17/09/202	3
:	_				_	
		_				
Overall	Assessment	Competent	Not yet competent			

Overall Assessment Decision	Competent	Not yet compe	tent
Student's Signature	7afadzwa	Date:	17/09/2023
Assessor's Signature		Date:	
Moderator's Signature		Date:	









## ASSESSMENT FEEDBACK AGREEMENT

Assessment feedback: Feedback to learner

Qualification Name:	
Qualification SAQA Number:	
Subject Name:	Web Programming 1
Subject Code:	WEPR1
Assessment Name:	Summative Assessment 1
Assessment Code:	WEPR1_SA1
Assessment Type:	Summative

Feedback report	1st Attempt		2nd Attempt		
геецраск героп	С	NYC	С	NYC	
Unit standard Number(s)					
US115367					
US115392					

General feedback to learner (Attempt 1)					
Supply comprehensive feedback why learner is found NYC					









Learner Number:	258196			
Learner name and surname:	Tafadzwa Chiripanyanga		Date:	17/09/2023
Learner Signature:	7afadzwa			
Lecturer name and surname:			Date:	
Lecturer Signature:				
Assessor name and surname:			Date:	
Assessor Signature:				
Moderator name and surname:			Date:	
Moderator Signature:				

#### Note to learner

Review the feedback provided by your lecturer to check that you have been found competent in this assessment. If there are any areas where you have been found not yet competent, you must redo those parts of the assessment and resubmit within the stipulated time frame.

The section below will only be completed in cases where the learner was asked to resubmit parts of the assessment where they were found not yet competent.

General feedback to learner (Attempt 2)

Supply comprehensive feedback why learner is found NYC









	,	1		
Learner Number:	258196			
Learner name and surname:	Tafadzwa Chiripanyanga		Date:	17/09/2023
Learner Signature:				
Lecturer name and surname:			Date:	
Lecturer Signature:				



Assessor name and surname:

Moderator name and surname:

Assessor Signature:

Moderator Signature:





Date:

Date:

