T1A3 - Terminal App

Criteria / Ratings					Pts
CMP1041-2.1: PLANS use	er interactions with the a	pplication.			
6 to >5 pts HD	5 to >4 pts D	4 to >3 pts CR	3 to >2 pts P	2 to >0 pts F	
Software development plan states the purpose of the application WITH A VERY HIGH LEVEL OF CLARITY, providing a COMPREHENSIVE list of functions / features that will be implemented in the application.	Software development plan states the purpose of the application WITH A HIGH LEVEL OF CLARITY, providing a SOMEWHAT COMPREHENSIVE list of functions / features that will be implemented in the application.	Software development plan states the purpose of the application WITH A MODERATE LEVEL OF CLARITY, providing a BASIC list of functions / features that will be implemented in the application.	Software development plan states the purpose of the application WITH LIMITED CLARITY, providing a VERY BASIC list of functions / features that will be implemented in the application.	Fails to create a software development plan that states the purpose of the application and/or fails to provide a list of functions / features that will be implemented in the application.	6 pts

CMP1041-2.2, CMP1041-2.3: CREATES an application which handles errors.					
12 to >10.5 pts HD	10.5 to >9 pts D	9 to >7 pts CR	7 to >5.5 pts P	5.5 to >0 pts F	
Application handles ALL CATEGORIES of errors GRACEFULLY.	Application handles MOST CATEGORIES of errors GRACEFULLY.	Application handles MOST CATEGORIES of errors SOMEWHAT GRACEFULLY.	Application handles SOME CATEGORIES of errors.	Fails to create an application with any working error handling functionality.	pts

CMP1041-3.2: DESIGNS	diagrams which explain t	he control flow in their a	pplication.		
6 to >5 pts HD	5 to >4 pts D	4 to >3 pts CR	3 to >2 pts P	2 to >0 pts F	
Diagram COMPREHENSIVELY shows the control flow of the application for ALL features of the application, and utilises a recognised format or set of conventions for a control flow diagram.	Diagram SOMEWHAT COMPREHENSIVELY shows the control flow of the application for MOST features of the application, and utilises a recognised format or set of conventions for a control flow diagram.	Diagram shows, AT A BASIC LEVEL, the control flow of the application for MOST features of the application, and utilises a recognised format or set of conventions for a control flow diagram.	Diagram shows, AT A VERY BASIC LEVEL, the control flow of the application for SOME features of the application, and utilises a recognised format or set of conventions for a control flow diagram.	Fails to design a diagram which explains control flow in an application and/or does not utilise recognised conventions for a control flow diagram.	6 pts
CMP1041-3.3: OUTLINES	how the functions/featu	res described in the soft	ware development plan v	vill be implemented.	
6 to >5 pts HD	5 to >4 pts D	4 to >3 pts CR	3 to >2 pts P	2 to >0 pts F	
Implementation plan VERY CLEARLY outlines how each feature will be implemented, providing a COMPREHENSIVE checklist of tasks for each feature; prioritises implementation of different features and/or checklist items within a feature; provides a deadline for each feature, checklist, and/or checklist items.	CLEARLY outlines how each feature will be implemented, providing a SOMEWHAT COMPREHENSIVE checklist	Implementation plan SOMEWHAT CLEARLY outlines how each feature will be implemented, providing a BASIC checklist of tasks for each feature; prioritises implementation of different features and/or checklist items within a feature; provides a deadline for each feature, checklist, and/or checklist item.	Implementation plan outlines how each feature will be implemented WITH LIMITED CLARITY, providing a VERY BASIC checklist of tasks for each feature; prioritises implementation of different features and/or checklist items within a feature; provides a deadline for each feature, checklist, and/or checklist item.	Fails to outline how the functions/features described in the software development plan will be implemented and/or does not provide a checklist or deadlines.	6 pts

CMP1041-1.1: UTILISES variables and variable scope by declaring them correctly, assigning values to them, and utilising variable scope in block coding with control structures.					
6 to >5 pts HD	5 to >4 pts D	4 to >3 pts CR	3 to >2 pts P	2 to >0 pts F	
Uses variables by declaring and assigning values correctly and demonstrates A DEEP AND NUANCED UNDERSTANDING of scope by using variables correctly in block coding with control structures WHICH CONTAIN THEIR OWN SCOPED VARIABLES AND COMPLEX NESTED STRUCTURES	UNDERSTANDING of scope	Uses variables by declaring and assigning values correctly and demonstrates UNDERSTANDING of scope by using variables correctly in block coding with controls structures THAT INVOLVE SIMPLE NESTING WITH OR WITHOUT CONTROL STRUCTURES WITH OR WITHOUT THEIR OWN SCOPED VARIABLES.	Uses variables by declaring and assigning values correctly and demonstrates UNDERSTANDING of scope by using variables correctly in block coding with control structures.	Declares and utilises variables incorrectly, in a limited or flawed fashion or not at all, and shows little or no understanding of variable scope in terms of code blocks with loops and control structures.	6 pts

CMP1041-1.2: UTILISES application.	loops and conditional cor	ntrol structures by using	them correctly to manag	e control flow of an	
6 to >5 pts HD	5 to >4 pts D	4 to >3 pts CR	3 to >2 pts P	2 to >0 pts F	
Uses loops and conditional control structures to implement a control flow which has multiple paths and COMPLEX nested structures that handle multiple contingencies that manage the control flow of the application IN A HIGHLY EFFICIENT MANNER	Uses loops and conditional control structures to implement a control flow which has multiple paths and nested structures that handle multiple contingencies that manage the control flow of the application IN AN EFFICIENT MANNER	Uses loops and conditional control structures to implement a control flow which has multiple paths and nested structures that handle multiple contingencies that manage the control flow of the application.	Uses loops and conditional control structures to implement a *IMPLE control flow that ALLOWS BINARY CONTROL FLOWS WITH OR WITHOUT NESTING that manage the control flow of the application.	Fails to implement loops and/or conditional control structures correctly and/or does not use them to manage the control flow of an application.	6 pt
	a library by including an				
6 to >5 pts	5 to >4 pts	4 to >3 pts	3 to >2 pts	2 to >0 pts	
HD Correctly imports FOUR OR MORE Ruby Gems into the code	D Correctly imports *three* Ruby Gems into the code	CR Correctly imports *two* Ruby Gems into the code	P Correctly imports *one* Ruby Gem into the code	F Does not correctly import any Ruby Gems into the code	6 pt
PRG1002-5.2: UTILISES	functions from an import	ed library			
6 to >5 pts	5 to >4 pts	4 to >3 pts	3 to >2 pts	2 to >0 pts	
HD	D	CR	P	F	/ 6
Makes **extensive** use of functions from one or more Ruby Gems	Makes SIGNIFICANT use of functions from one or more Ruby Gems	Makes MODERATE use of functions from one or more Ruby Gems	Makes VERY SIMPLE use of functions from one or more Ruby Gems	Does not make use of functions from one or more Ruby Gems	pts

PRG1002-5.3: WRITES s	mple functions and uses	them in code			
6 to >5 pts HD Writes SIX OR MORE simple functions and uses AT LEAST FIVE of these in code.	5 to >4 pts D Writes FOUR OR MORE simple functions and uses AT LEAST THREE of these in code.		3 to >2 pts P Writes A simple function but DOES NOT USE IT in code.	2 to >0 pts F Does not write any simple functions.	/ 6 pts
PRG1002-3.1: UTILISES	standard input and outpu	ıt in a simple program			
6 to >5 pts HD Uses input and output in TWO OR MORE SOPHISTICATED ways in an application, demonstrating DEEP AND NUANCED UNDERSTANDING of input and output in Ruby.	UNDERSTANDING of input	4 to >3 pts CR Uses input and output in ONE SOPHISTICATED way in an application, demonstrating UNDERSTANDING of input and output in Ruby.	3 to >2 pts P Uses input and output in ONE BASIC way in an application, demonstrating SIMPLE UNDERSTANDING of input and output in Ruby.	2 to >0 pts F Does not use input and output in an application, or uses it substantially incorrectly.	/ 6 pts
PRG1002-3.2: UTILIS	ES command line argu	ments in a simple pro	ogram		
6 to >5 pts HD	5 to >4 pts D	4 to >3 pts CR	3 to >2 pts P	2 to >0 pts F	
Uses MULTIPLE command line arguments and demonstrates A DEEP AND NUANCED UNDERSTANDING	Uses MULTIPLE command line arguments and demonstrates A DEEP UNDERSTANDING	Uses ONE command line argument and demonstrates A MODERATE UNDERSTANDING	Uses ONE command line argument and demonstrates A BASIC UNDERSTANDING	Does not use command line arguments.	/ 6 pts

6 to >5 pts	5 to >4 pts	4 to >3 pts	3 to >2 pts	2 to >0 pts	
HD	D	CR	P	F	
Applies DRY coding principles to ENTIRE codebase	Applies DRY coding principles to MOST OF code base	Applies DRY coding principles IN SEVERAL PLACES within the code base	Applies DRY coding principles IN FEW PLACES within the codebase IN A BASIC WAY	Does not apply DRY coding principles	/ 6
CMP1041-1.3: APPLIES ϵ code produced.	established code style an	d conventions in the spe	cified programming lang	uage consistently in all	
6 to >5 pts HD	5 to >4 pts D	4 to >3 pts CR	3 to >2 pts P	2 to >0 pts F	
Applies code style and convention consistently across ALL CODE produced with NO ERRORS.	Applies code style and convention consistently across ALL CODE produced with NO MORE THAN TWO ERRORS.	Applies code style and convention consistently across ALL CODE produced with SOME MINOR OMISSIONS	Applies BASIC code style and conventions to the MAJORITY OF CODE produced.	Fails to apply code style and conventions to the majority or any of the code produced.	/ 6
CMP1041-4.3: CREATES	an application which run	s and has features that a	re consistent with the de	evelopment plan.	
6 to >5 pts HD	5 to >4 pts D	4 to >3 pts CR	3 to >2 pts P	2 to >0 pts F	
Application runs with ZERO errors and has features that are COMPLETELY CONSISTENT with the development plan.	Application runs with EXTREMELY FEW errors and has features that are SIGNIFICANTLY CONSISTENT with the development plan.	Application runs with VERY FEW errors and has features that are MOSTLY CONSISTENT with the development plan.	Application runs with FEW errors and has features that are SOMEWHAT CONSISTENT with the development plan.	Fails to create an application that runs and has features that are consistent with the development plan.	/ 6

CMP1041-4.2: DESIGNS	appropriate documentati	on or help file for a user	to utilise the features of	the application.	
6 to >5 pts HD	5 to >4 pts D	4 to >3 pts CR	3 to >2 pts P	2 to >0 pts F	
Help file includes COMPREHENSIVE instructions which ACCURATELY describe: steps to install the application; dependencies required by the application; system/hardware requirements; features of the application.	Help file includes SOMEWHAT COMPREHENSIVE instructions which ACCURATELY describe: steps to install the application; dependencies required by the application; system/hardware requirements; features of the application.	Help file includes BASIC instructions which SOMEWHAT ACCURATELY describe: steps to install the application; dependencies required by the application; system/hardware requirements; features of the application.	Help file includes VERY BASIC instructions which SOMEWHAT ACCURATELY describe: steps to install the application; dependencies required by the application; system/hardware requirements; features of the application.	Does not design appropriate documentation or help file for a user to utilise the features of the application.	/ (
MP1041-4.1: DESIGNS	tests for main features o	f the application.			
6 to >5 pts HD TWO tests both test MAIN FEATURES of the application and are HIGHLY RELEVANT to checking that the application is running as expected.	5 to >4 pts D TWO tests both test MAIN FEATURES of the application and are MODERATELY RELEVANT to checking that the application is running as expected.	4 to >3 pts CR TWO tests both test IMPORTANT of the application and are SOMEWHAT RELEVANT to checking that the application is running as expected.	3 to >2 pts P TWO tests both test FEATURES of the application and are MARGINALLY RELEVANT to checking that the application is running as expected.	2 to >0 pts F Does not design tests for features of the application or designs only one test.	/ 6

CMP1041-6.1: UTILISES	source control to version	and trace the developm	ent of an application.		
6 to >5 pts HD	5 to >4 pts D	4 to >3 pts CR	3 to >2 pts P	2 to >0 pts F	
Utilises source control with SIGNIFICANTLY MORE THAN 20 commits, ALL with meaningful commit messages and pushed to a remote repository.	Utilises source control with MORE THAN 20 commits, ALL with meaningful commit messages and pushed to a remote repository.	Utilises source control with AT LEAST 20 commits, MOST with meaningful commit messages and pushed to a remote repository.	Utilises source control with AT LEAST 20 commits, SOME with meaningful commit messages and pushed to a remote repository.	Fails to utilise source control and/or has fewer than 20 commits and/or has zero meaningful commit messages and/or has not pushed to a remote repository.	/ 6 pts
CMP1041-6.2: UTILISES	project management soft	tware to track the develo	ppment of an application.		
6 to >5 pts HD	5 to >4 pts D	4 to >3 pts CR	3 to >2 pts P	2 to >0 pts F	
Demonstrates SIGNIFICANT AND HIGHLY FREQUENT use of project management software to track the development of an application.	Demonstrates SOMEWHAT SIGNIFICANT AND FREQUENT use of project management software to track the development of an application.	Demonstrates BASIC AND SEMI-FREQUENT use of project management software to track the development of an application.	Demonstrates VERY BASIC AND INFREQUENT use of project management software to track the development of an application.	Fails to utilise project management software to track the development of an application.	/ 6 pts

CMP1041-6.3: UTILISES	operating system or IDE	features which facilitate	the execution of the app	lication.	
6 to >5 pts HD	5 to >4 pts D	4 to >3 pts CR	3 to >2 pts P	2 to >0 pts F	
Writes multiple highly sophisticated scripts which facilitate the execution of the application OR packaging the application as a Ruby gem. Script(s) or gem run with ZERO errors.	Writes one or more sophisticated scripts which facilitate the execution of the application OR packaging the application as a Ruby gem. Script(s) or gem run with EXTREMELY FEW errors.	Writes a script which facilitates the execution of the application OR packaging the application as a Ruby gem. Script(s) or gem run with FEW errors.	Writes a simple script which facilitates the execution of the application OR packaging the application as a Ruby gem. Script(s) or gem run with MANY errors.	Does not produce a process to facilitate execution of the application.	/ 6 pts
PRG1002-4.4: DEMONST	RATES algorithmic thinki	ng applied to programmi	ng by explaining logic in	a program	
4.5 to >4 pts HD	4 to >3.5 pts D	3.5 to >3 pts CR	3 to >2.5 pts	2.5 to >0 pts	
Provides a VERY THOROUGH walkthrough of the logic of the application, demonstrating A VERY HIGH LEVEL of algorithmic thinking.	Provides a THOROUGH walkthrough of the logic of the application, demonstrating A HIGH LEVEL of algorithmic	Provides a walkthrough of		Does not provide a walkthrough of the logic of the application and/or does not demonstrate a basic level of algorithmic thinking.	/ 4.5 pts