IT460 Unit 7 Assignment Rubric

Course: IT460 Systems Analysis and Design

Criterion 1	**Level III Max Points** 13 points	**Level II Max Points** 10 points	**Level I Max Points** 6.5 points	**Not Present** 0 points	**Criterion Score**

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Criterion 1: Structured English or Pseudocode	Meets all of the following criteria: • Logic is presented in a clear and correct sequence that reflects the given scenario. • Decision logic is explicitly represented for both outcomes (space available vs. class full). • Modularity is demonstrated through grouped steps or named logical blocks. • Inputs and outputs are clearly identified where	Meets most of the following criteria: • Logic is presented in a clear and correct sequence that reflects the given scenario. • Decision logic is explicitly represented for both outcomes (space available vs. class full). • Modularity is demonstrated through grouped steps or named logical blocks. • Inputs and outputs are clearly identified	Meets half or fewer of the following criteria: • Logic is presented in a clear and correct sequence that reflects the given scenario. • Decision logic is explicitly represented for both outcomes (space available vs. class full). • Modularity is demonstrated through grouped steps or named logical blocks. • Inputs and outputs are clearly identified	Does not meet any criteria.	/ 13

Criterion 1	**Level III Max Points** 13 points	**Level II Max Points** 10 points	**Level I Max Points** 6.5 points	**Not Present** 0 points	**Criterion Score**
	appropriate. • Any assumptions or modifications made to the original scenario are reasonable and clearly explained.	where appropriate. • Any assumptions or modifications made to the original scenario are reasonable and clearly explained.	where appropriate. • Any assumptions or modifications made to the original scenario are reasonable and clearly explained.		

Criterion 2	**Level III Max Points** 13 points	**Level II Max Points** 10 points	**Level I Max Points** 6.5 points	**Not Present** 0 points	**Criterion Score**

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Criterion 2: Structure Chart Design	Meets all of the following criteria: • Structure chart is created using Microsoft Visio. • A clear top-level control module is present. • At least two appropriate subordinate modules are shown. • At least one data couple and one control couple are correctly represented. • Module connections and hierarchy use cor-	Meets most of the following criteria: • Structure chart is created using Microsoft Visio. • A clear top-level control module is present. • At least two appropriate subordinate modules are shown. • At least one data couple and one control couple are correctly represented. • Module connections and hierarchy use cor-	Meets half or fewer of the following criteria: • Structure chart is created using Microsoft Visio. • A clear top-level control module is present. • At least two appropriate subordinate modules are shown. • At least one data couple and one control couple are correctly represented. • Module connections and hierarchy use cor-	Does not meet any criteria.	/ 13

Criterion 2	**Level III Max Points** 13 points	**Level II Max Points** 10 points	**Level I Max Points** 6.5 points	**Not Present** 0 points	**Criterion Score**
	rect structure chart notation, including appropriate fan-in or fan-out relationships.	rect structure chart notation, including appropriate fan-in or fan-out relationships.	rect structure chart notation, including appropriate fan-in or fan-out relationships.		

Criterion 3	**Level III Max Points** 10 points	**Level II Max Points** 8 points	**Level I Max Points** 5 points	**Not Present** 0 points	**Criterion Score**

Criterion 3	**Level III Max Points** 10 points	**Level II Max Points** 8 points	**Level I Max Points** 5 points	**Not Present** 0 points	**Criterion Score**
Criterion 3: Program Specification and DevOps Operational Requirements	Meets all of the following criteria: • Program specification clearly states the overall purpose of the program. • The purpose of each module is clearly described. • Required inputs and expected outputs are clearly identified. • Processing performed within each module is clearly explained. • Error or exception handling considerations are addressed. • Key assumptions required for implementation are clearly stated. • DevOps operational re-	Meets most of the following criteria: • Program specification clearly states the overall purpose of the program. • The purpose of each module is clearly described. • Required inputs and expected outputs are clearly identified. • Processing performed within each module is clearly explained. • Error or exception handling considerations are addressed. • Key assumptions required for implementation are clearly stated. • DevOps operational re-	Meets half or fewer of the following criteria: • Program specification clearly states the overall purpose of the program. • The purpose of each module is clearly described. • Required inputs and expected outputs are clearly identified. • Processing performed within each module is clearly explained. • Error or exception handling considerations are addressed. • Key assumptions required for implementation are clearly stated.	Does not meet any criteria.	/ 10

Criterion 3	**Level III Max Points** 10 points	**Level II Max Points** 8 points	**Level I Max Points** 5 points	**Not Present** 0 points	**Criterion Score**
	quirements subsection (2–3 sentences) identifies at least two environment or deployment requirements that must be encoded in IaC. • Requirements are clearly distinguished from assumptions in the DevOps subsection.	quirements subsection (2–3 sentences) identifies at least two environment or deployment requirements that must be encoded in IaC. • Requirements are clearly distinguished from assumptions in the DevOps subsection.	• DevOps operational requirements subsection (2–3 sentences) identifies at least two environment or deployment requirements that must be encoded in IaC. • Requirements are clearly distinguished from assumptions in the DevOps subsection.		

Criterion 4	**Level III Max Points** 8 points	**Level II Max Points** 6.25 points	**Level I Max Points** 4 points	**Not Present** 0 points	**Criterion Score**

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Criterion 4: DevOps, AI, and Automated Checks Reflection	Meets all of the following criteria: • Identifies three specific automated checks appropriate for a CI pipeline based on the designed program. • Includes at least one automated check that validates core program logic or a key decision path. • Includes at least one automated check related to safety, reliability, or input validation. • Provides a clear reflection paragraph (5–7 sentences) explaining how clear program design supports	Meets most of the following criteria: • Identifies three specific automated checks appropriate for a CI pipeline based on the designed program. • Includes at least one automated check that validates core program logic or a key decision path. • Includes at least one automated check related to safety, reliability, or input validation. • Provides a clear reflection paragraph (5–7 sentences) explaining how clear program design supports	Meets half or fewer of the following criteria: • Identifies three specific automated checks appropriate for a CI pipeline based on the designed program. • Includes at least one automated check that validates core program logic or a key decision path. • Includes at least one automated check related to safety, reliability, or input validation. • Provides a clear reflection paragraph (5–7 sentences) explaining how clear program de-	Does not meet any criteria.	/ 8

Criterion 4	**Level III Max Points** 8 points	**Level II Max Points** 6.25 points	**Level I Max Points** 4 points	**Not Present** 0 points	**Criterion Score**
	reliable DevOps automation. • Explains how ambiguity in program logic could negatively affect an automated pipeline or AI-assisted development. • Connects at least one concept from the Infrastructure as Code readings to the design work in this assignment.	reliable DevOps automation. • Explains how ambiguity in program logic could negatively affect an automated pipeline or AI-assisted development. • Connects at least one concept from the Infrastructure as Code readings to the design work in this assignment.	sign supports reliable DevOps automation. • Explains how ambiguity in program logic could negatively affect an automated pipeline or AI-assisted development. • Connects at least one concept from the Infrastructure as Code readings to the design work in this assignment.		

Criterion 5	**Level III Max Points** 3 points	**Level II Max Points** 2 points	**Level I Max Points** 1 point	**Not Present** 0 points	**Criterion Score**

Criterion 5	**Level III Max Points** 3 points	**Level II Max Points** 2 points	**Level I Max Points** 1 point	**Not Present** 0 points	**Criterion Score**
Criterion 5: Submission and Packaging Requirements	Meets all of the following criteria: • All required written components from Parts 1–4 are included. • The structure chart created in Visio is embedded in the Word document. • The document is named using the required naming convention. • All required files and	Meets three of the following criteria: • All required written components from Parts 1–4 are included. • The structure chart created in Visio is embedded in the Word document. • The document is named using the required naming convention. • All required files and	Meets one or two of the following criteria: • All required written components from Parts 1–4 are included. • The structure chart created in Visio is embedded in the Word document. • The document is named using the required naming convention. • All required files and	Does not meet any criteria.	/ 3

Criterion 5	**Level III Max Points** 3 points	**Level II Max Points** 2 points	**Level I Max Points** 1 point	**Not Present** 0 points	**Criterion Score**
	artifacts are packaged and submitted according to the assignment instructions.	artifacts are packaged and submitted according to the assignment instructions.	artifacts are packaged and submitted according to the assignment instructions.		

Criterion 6	**Level III Max Points** 3 points	**Level II Max Points** 2 points	**Level I Max Points** 1 point	**Not Present** 0 points	**Criterion Score**

Criterion 6	**Level III Max Points** 3 points	**Level II Max Points** 2 points	**Level I Max Points** 1 point	**Not Present** 0 points	**Criterion Score**
Criterion 6: Written Communication and APA Formatting	Meets all of the following criteria: • Writing is clear and professional in tone. • Work is free of significant grammar, spelling, punctuation, and capitalization errors. • APA paragraph formatting is used consistently for all written portions of the assignment.	Meets two of the following criteria: • Writing is clear and professional in tone. • Work is free of significant grammar, spelling, punctuation, and capitalization errors. • APA paragraph formatting is used consistently for all written portions of the assignment.	Meets one of the following criteria: • Writing is clear and professional in tone. • Work is free of significant grammar, spelling, punctuation, and capitalization errors. • APA paragraph formatting is used consistently for all written portions of the assignment.	Does not meet any criteria.	/ 3

Total	/ 50

Overall Score

Level III Max Points	Level II Max Points	Level I Max Points	Not Present
38.26 points minimum	24.01 points minimum	1 point minimum	0 points minimum