



IT460 Unit 5 Assignment Rubric

Course: IT460 Systems Analysis and Design

Cri ter ion 1	Level III Max Points 10 points	Level II Max Points 8.5 points	Level I Max Points 6 points	Not Prese nt 0 point s	Criterion Score
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Criterion 1	Level III Max Points 10 points	Level II Max Points 8.5 points	Level I Max Points 6 points	Not Present 0 points	Criterion Score
Criterion 1: Level 1 Data Flow Diagram Fundamentals	Meets all of the following criteria: - Diagram represents a Level 1 Data Flow Diagram for Avery's Gym system. - Uses Gane and Sarson symbols correctly for processes, data stores, external entities, and data flows. - Includes the required external entities (Gym Members and Trainers/Therapists, whether modeled as one or two entities). - Includes the three required processes corresponding to the provided use cases: - Collect Information - Schedule (or Change) a Fitness Assessment - Communicate Reminder Messages - Diagram adheres to core DFD rules: - Data at rest does not move without a process	Meets most of the following criteria: - Diagram represents a Level 1 Data Flow Diagram for Avery's Gym system. - Uses Gane and Sarson symbols correctly for processes, data stores, external entities, and data flows. - Includes the required external entities (Gym Members and Trainers/Therapists, whether modeled as one or two entities). - Includes the three required processes corresponding to the provided use cases: - Collect Information - Schedule (or Change) a Fitness Assessment - Communicate Reminder Messages - Diagram adheres to core DFD rules: - Data at rest does not move without a process	Meets less than half of the following criteria: - Diagram represents a Level 1 Data Flow Diagram for Avery's Gym system. - Uses Gane and Sarson symbols correctly for processes, data stores, external entities, and data flows. - Includes the required external entities (Gym Members and Trainers/Therapists, whether modeled as one or two entities). - Includes the three required processes corresponding to the provided use cases: - Collect Information - Schedule (or Change) a Fitness Assessment - Communicate Reminder Messages - Diagram adheres to core DFD rules: - Data at rest does not move without a process	Does not meet any criteria.	/ 10

Criterion 1	Level III Max Points 10 points	Level II Max Points 8.5 points	Level I Max Points 6 points	Not Present 0 points	Criterion Score
als	External entities do not exchange data directly with data stores	External entities do not exchange data directly with data stores	External entities do not exchange data directly with data stores		

Criterion 2	Level III Max Points 12 points	Level II Max Points 9 points	Level I Max Points 6 points	Not Present 0 points	Criterion Score
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Criterion 2	Level III Max Points 12 points	Level II Max Points 9 points	Level I Max Points 6 points	Not Present 0 points	Criterion Score
Criterion 2: Process Decomposition and Logical Flow	Meets all of the following criteria: - Each process is logically decomposed to reflect the intent of the provided use case descriptions. - Processes correctly receive input data flows from external entities or data stores and produce appropriate output data flows. - Process interactions reflect the business logic described (for example, checking	Meets three of the following criteria: - Each process is logically decomposed to reflect the intent of the provided use case descriptions. - Processes correctly receive input data flows from external entities or data stores and produce appropriate output data flows. - Process interactions reflect the business logic described (for example, checking	Meets one or two of the following criteria: - Each process is logically decomposed to reflect the intent of the provided use case descriptions. - Processes correctly receive input data flows from external entities or data stores and produce appropriate output data flows. - Process interactions reflect the business logic described (for example, checking	Does not meet any criteria.	/ 12

Criterion 2	Level III Max Points 12 points	Level II Max Points 9 points	Level I Max Points 6 points	Not Present 0 points	Criterion Score
	availability before scheduling, canceling an existing assessment before rescheduling, triggering reminders based on time). • Process naming and numbering are clear, consistent, and meaningful for a Level 1 DFD.	availability before scheduling, canceling an existing assessment before rescheduling, triggering reminders based on time). • Process naming and numbering are clear, consistent, and meaningful for a Level 1 DFD.	availability before scheduling, canceling an existing assessment before rescheduling, triggering reminders based on time). • Process naming and numbering are clear, consistent, and meaningful for a Level 1 DFD.		

Criterion 3	Level III Max Points 15 points	Level II Max Points 12 points	Level I Max Points 7 points	Not Present 0 points	Criterion Score
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Criterion 3	Level III Max Points 15 points	Level II Max Points 12 points	Level I Max Points 7 points	Not Present 0 points	Criterion Score
Criterion 3: Data Stores and Data Flow Accuracy	Meets all of the following criteria: - Includes the re-quired data stores ap-propriate to the sys-tem (Gym Member Database and Assessment Calendar, or equiva-lent clearly labeled stores). - Data flows correctly enter and leave data stores only through processes, not directly from exter-nal entities. - Data flows are clearly labeled and accurately represent the infor-mation de-scribed in the use cases (for example, member in-	Meets three of the following criteria: - Includes the re-quired data stores ap-propriate to the sys-tem (Gym Member Database and Assessment Calendar, or equiva-lent clearly labeled stores). - Data flows correctly enter and leave data stores only through processes, not directly from exter-nal entities. - Data flows are clearly labeled and accurately represent the infor-mation de-scribed in the use cases (for example,	Meets one or two of the following criteria: - Includes the re-quired data stores ap-propriate to the sys-tem (Gym Member Database and Assessment Calendar, or equiva-lent clearly labeled stores). - Data flows correctly enter and leave data stores only through processes, not directly from exter-nal entities. - Data flows are clearly labeled and accurately represent the infor-mation de-scribed in the use cases (for example,	Does not meet any criteria.	/ 15

Criterion 3	Level III Max Points 15 points	Level II Max Points 12 points	Level I Max Points 7 points	Not Present 0 points	Criterion Score
	formation, assessment details, reminders). • Data flows correctly reflect creation, update, and retrieval of data based on the system logic (for example, scheduling, changing, and canceling assessments).	member information, assessment details, reminders). • Data flows correctly reflect creation, update, and retrieval of data based on the system logic (for example, scheduling, changing, and canceling assessments).	member information, assessment details, reminders). • Data flows correctly reflect creation, update, and retrieval of data based on the system logic (for example, scheduling, changing, and canceling assessments).		

Criterion 4	Level III Max Points 8 points	Level II Max Points 6.75 points	Level I Max Points 5 points	Not Present 0 points	Criterion Score
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Criterion 4	Level III Max Points 8 points	Level II Max Points 6.75 points	Level I Max Points 5 points	Not Present 0 points	Criterion Score
Criterion 4: Analytical Judgment and Use Case Interpretation	Meets all of the following criteria: - The Level 1 DFD reasonably interprets and integrates all three provided use cases into a single coherent system model. - Assumptions made to address incomplete information are logical, consistent, and appropriate for the problem context. - The diagram demonstrates sound analytical judgment, showing how information flows support scheduling, changes, and reminder communications.	Meets three of the following criteria: - The Level 1 DFD reasonably interprets and integrates all three provided use cases into a single coherent system model. - Assumptions made to address incomplete information are logical, consistent, and appropriate for the problem context. - The diagram demonstrates sound analytical judgment, showing how information flows support scheduling, changes, and reminder communications.	Meets one or two of the following criteria: - The Level 1 DFD reasonably interprets and integrates all three provided use cases into a single coherent system model. - Assumptions made to address incomplete information are logical, consistent, and appropriate for the problem context. - The diagram demonstrates sound analytical judgment, showing how information flows support scheduling, changes, and reminder communications.	Does not meet any criteria.	/ 8

Criterion 4	Level III Max Points 8 points	Level II Max Points 6.75 points	Level I Max Points 5 points	Not Present 0 points	Criterion Score
	The resulting model would be understandable and defensible to another systems analyst reviewing the diagram.	The resulting model would be understandable and defensible to another systems analyst reviewing the diagram.	The resulting model would be understandable and defensible to another systems analyst reviewing the diagram.		

Criterion 5	Level III Max Points 5 points	Level II Max Points 4.25 points	Level I Max Points 3 points	Not Present 0 points	Criterion Score
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Criterion 5	Level III Max Points 5 points	Level II Max Points 4.25 points	Level I Max Points 3 points	Not Present 0 points	Criterion Score
Criterion 5: Organization, Professionalism, and Submission	Meets all of the following criteria: - The Level 1 DFD is clearly organized, readable, and professionally presented, with appropriate spacing and labeling. - Gane and Sarson symbols are legible and the diagram is easy to interpret without ambiguity. - The Visio file is named correctly according to the required naming convention.	Meets three of the following criteria: - The Level 1 DFD is clearly organized, readable, and professionally presented, with appropriate spacing and labeling. - Gane and Sarson symbols are legible and the diagram is easy to interpret without ambiguity. - The Visio file is named correctly according to the required naming convention.	Meets one or two of the following criteria: - The Level 1 DFD is clearly organized, readable, and professionally presented, with appropriate spacing and labeling. - Gane and Sarson symbols are legible and the diagram is easy to interpret without ambiguity. - The Visio file is named correctly according to the required naming convention.	Does not meet any criteria.	/ 5

Criterion 5	Level III Max Points 5 points	Level II Max Points 4.25 points	Level I Max Points 3 points	Not Present 0 points	Criterion Score
	All re-quired docu-ments are pack-aged per instruc-tions and submit-ted correctly	All re-quired docu-ments are pack-aged per instruc-tions and submit-ted correctly	All re-quired docu-ments are pack-aged per instruc-tions and submit-ted correctly		

Total	/ 50
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Overall Score

Level III Max Points
40.51 points minimum

Level II Max Points
27.01 points minimum

Level I Max Points
1 point minimum

Not Present
0 points minimum