

CS-2340-B/GR Midterm Exam - Diagramming Part

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TOTAL POINTS

47.5 / 60

QUESTION 1

1 Sequence Diagram 20.5 / 25

✓ + 2.5 pts At least 1 actor - shown correctly is stick figure

✓ + 5 pts At least 1 loop fragment/frame

✓ + 5 pts At least 1 alternate (alt) fragment/frame

✓ + 2.5 pts At least 1 external system

+ 2.5 pts Activation boxes for objects

✓ + 2.5 pts Correctly labeled instances of the class

✓ + 5 pts Messages sent to correct objects

✓ - 1 pts Minor messages error

- 2 pts Major messages error

✓ - 1 pts minor syntax error

- 2 pts major syntax error

- 2 pts Extra objects (unnecessary for Grocery

Store System)

+ 0 pts Includes team members that contributed

☞ classes know to send information even when a message is not sent to them

QUESTION 2

2 Design Class Diagram (DCD) 17 / 25

✓ + 5 pts an aggregation relationship

✓ + 5 pts a composition relationship

✓ + 2.5 pts inheritance relationship

✓ + 2.5 pts relevant methods

✓ + 2.5 pts relevant attributes

✓ + 5 pts multiplicity relationship

✓ + 2.5 pts appropriately applied visibility indicators on attribute

✓ - 1 pts minor syntax error

- 2.5 pts major syntax error

✓ - 1 pts Minor attribute/method error

+ 0 pts Includes team members that contributed

✓ - 6 pts Design doesn't uphold conceptual integrity (DCD and SD do not match)

☞ attributes unlabelled, multiplicities need 1..* notation, not 1...

QUESTION 3

3 Use Case Diagram 10 / 10

✓ + 5 pts at least 5 use cases

✓ + 2.5 pts 2+ actors

✓ + 1.25 pts correctly uses at least 1 '<<extends>>' relationship

✓ + 1.25 pts correctly uses at least 1 '<<includes>>' relationship

- 1 pts minor syntax/conceptual issue

- 2 pts major syntax/conceptual issue

+ 5 pts Includes team members that contributed

QUESTION 4

4 Teamwork 0 / 0

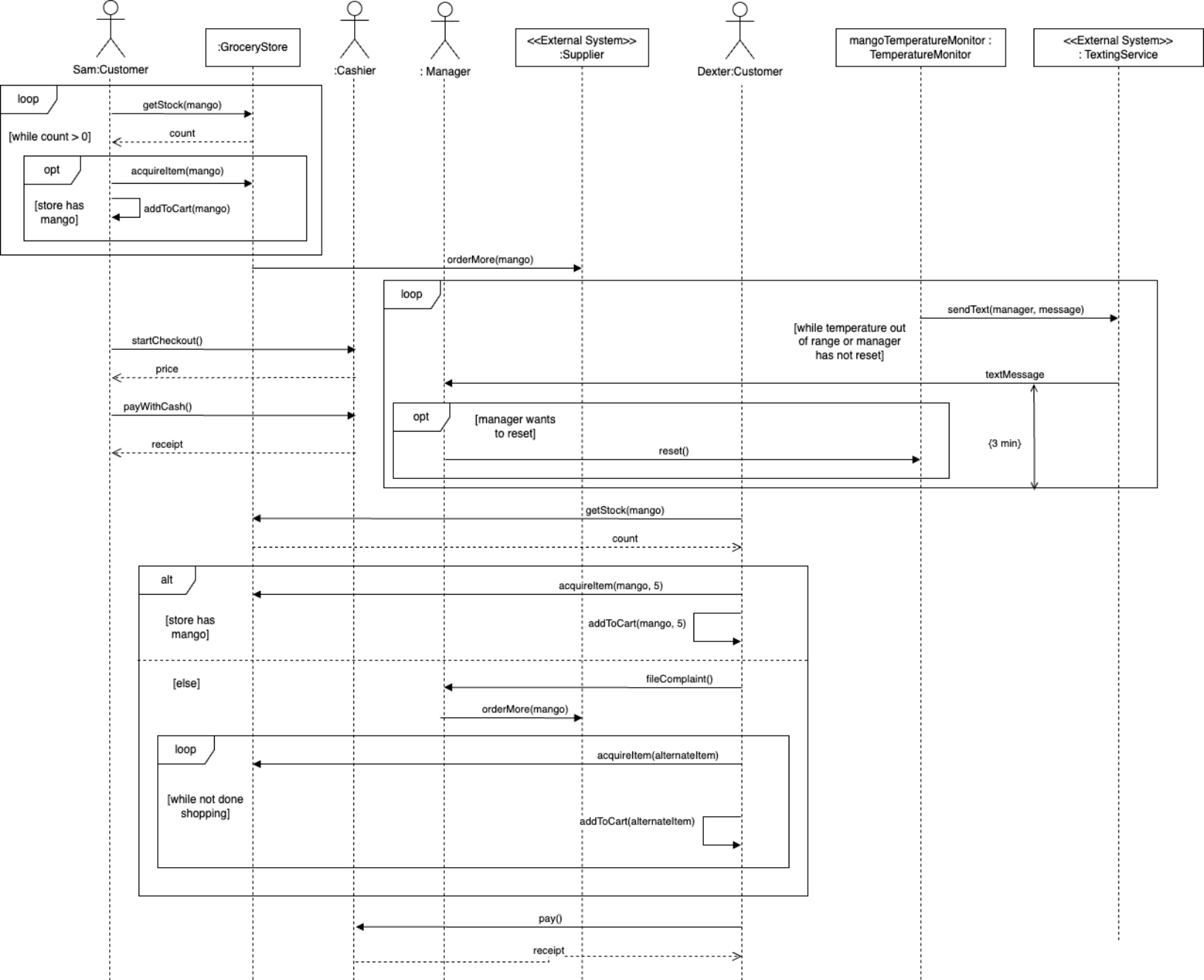
✓ + 0 pts *Complete*

- 6 pts Doesn't include who did what question

- 6 pts Doesn't include team task delegation

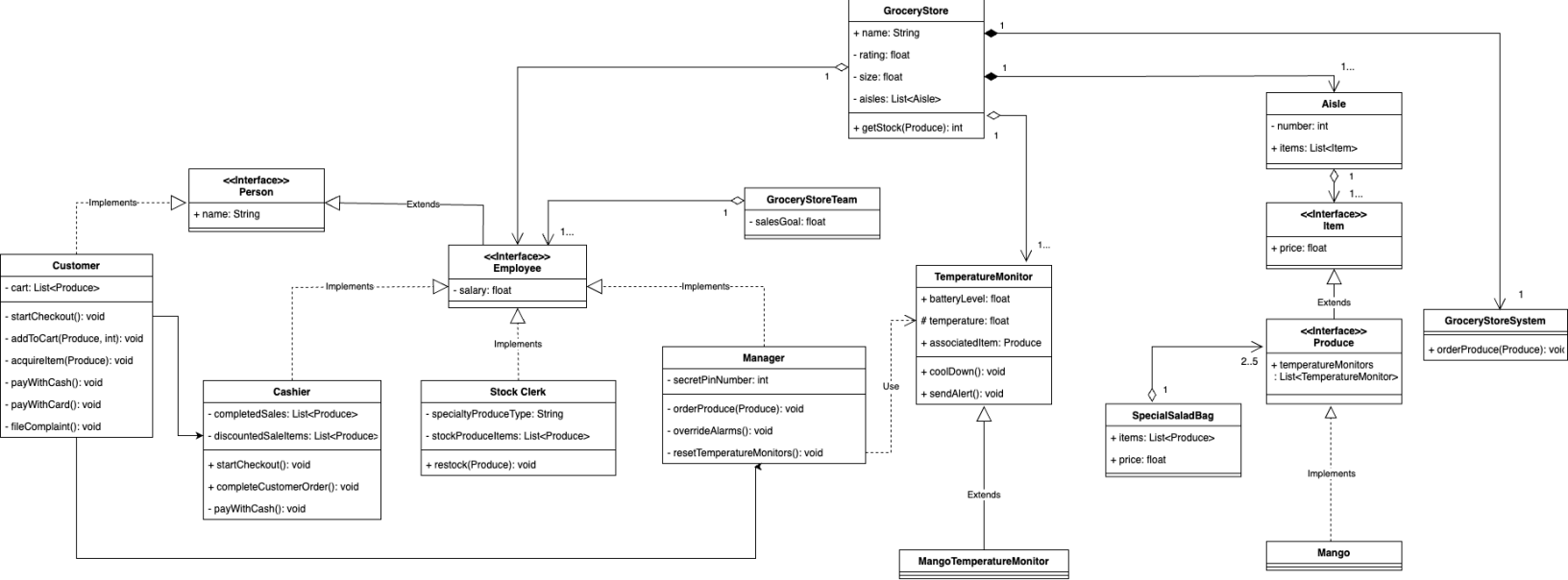
strategy

- 1 pts All team members did not submit the assignment as a group



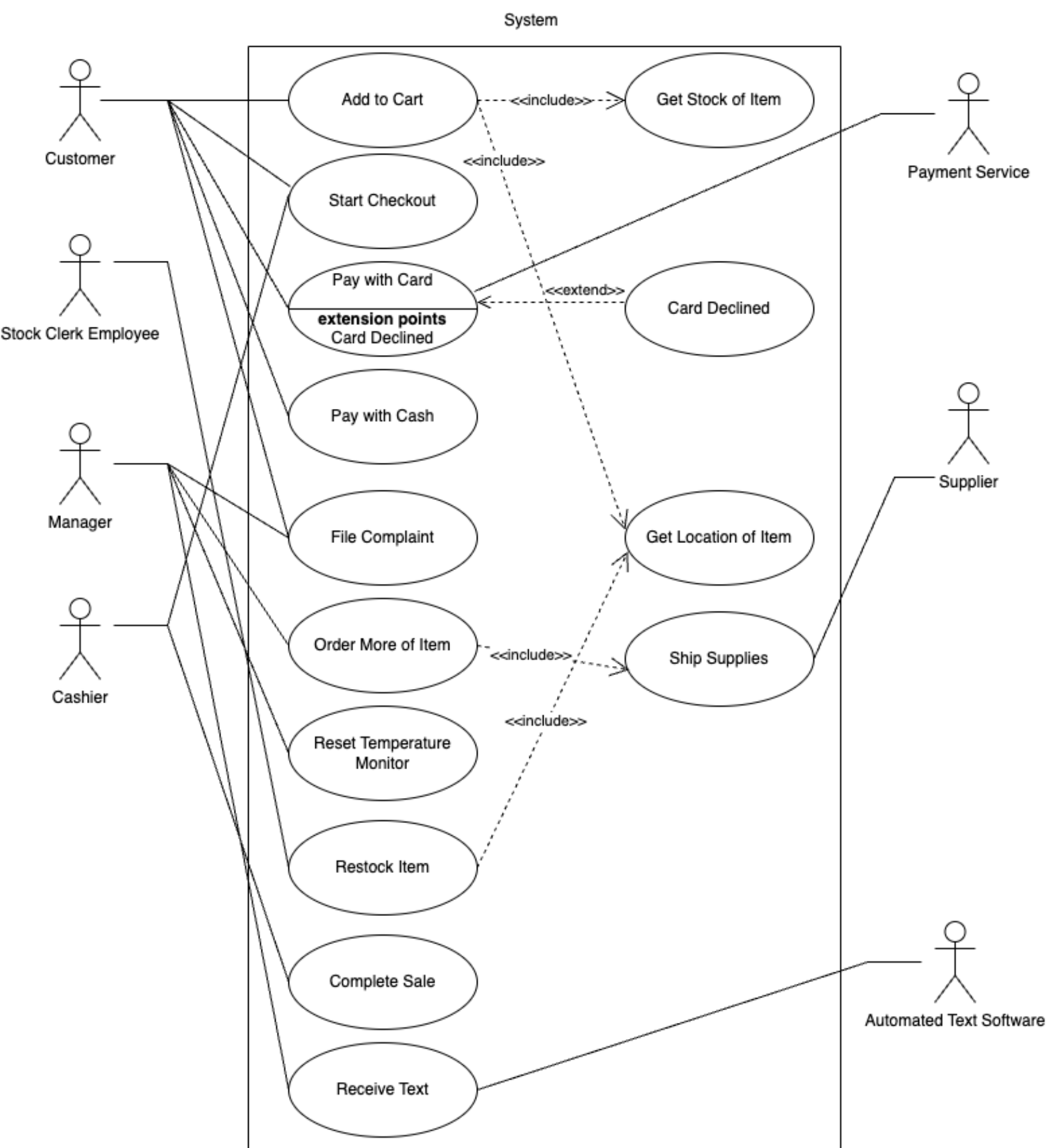
1 Sequence Diagram 20.5 / 25

- ✓ + 2.5 pts *At least 1 actor - shown correctly is stick figure*
- ✓ + 5 pts *At least 1 loop fragment/frame*
- ✓ + 5 pts *At least 1 alternate (alt) fragment/frame*
- ✓ + 2.5 pts *At least 1 external system*
 - + 2.5 pts *Activation boxes for objects*
- ✓ + 2.5 pts *Correctly labeled instances of the class*
- ✓ + 5 pts *Messages sent to correct objects*
- ✓ - 1 pts *Minor messages error*
 - 2 pts *Major messages error*
- ✓ - 1 pts *minor syntax error*
 - 2 pts *major syntax error*
 - 2 pts *Extra objects (unnecessary for Grocery Store System)*
- + 0 pts *Includes team members that contributed*
 - 💬 *classes know to send information even when a message is not sent to them*



2 Design Class Diagram (DCD) 17 / 25

- ✓ + **5 pts** *an aggregation relationship*
- ✓ + **5 pts** *a composition relationship*
- ✓ + **2.5 pts** *inheritance relationship*
- ✓ + **2.5 pts** *relevant methods*
- ✓ + **2.5 pts** *relevant attributes*
- ✓ + **5 pts** *multiplicity relationship*
- ✓ + **2.5 pts** *appropriately applied visibility indicators on attribute*
- ✓ - **1 pts** *minor syntax error*
 - **2.5 pts** *major syntax error*
- ✓ - **1 pts** *Minor attribute/method error*
 - + **0 pts** *Includes team members that contributed*
- ✓ - **6 pts** *Design doesn't uphold conceptual integrity (DCD and SD do not match)*
 - 💬 *attributes unlabelled, multiplicities need 1..* notation, not 1...*



3 Use Case Diagram 10 / 10

- ✓ + **5 pts** at least 5 use cases
- ✓ + **2.5 pts** 2+ actors
- ✓ + **1.25 pts** correctly uses at least 1 `<<extends>>` relationship
- ✓ + **1.25 pts** correctly uses at least 1 `<<includes>>` relationship
- **1 pts** minor syntax/conceptual issue
- **2 pts** major syntax/conceptual issue
- + **5 pts** Includes team members that contributed

Which team member worked on which diagram? What was your team task delegation strategy (i.e., how did you work on this exam as a team)? Please note anyone that did not contribute.

Our strategy was to delegate each diagram to two members:

- Diagram 1: Nandini and Ananth
- Diagram 2: Vidit and Dhruv
- Diagram 3: Jon and Shivansh

After completing each diagram to the extent each group could attempt, we all deliberated as a team on each diagram. Each group presented their diagram, followed by a feedback loop from the other team members to the group that worked on the diagram. This helped complete the diagram with utmost deliberation and a voice from each member. Hearing from everyone, we completed our diagrams to represent our understanding of the scenarios at hand.

4 Teamwork 0 / 0

✓ + 0 pts *Complete*

- 6 pts Doesn't include who did what question
- 6 pts Doesn't include team task delegation strategy
- 1 pts All team members did not submit the assignment as a group