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5	þ

[Instructions: Remove everything that is not a heading below and fill in with your own diagrams, etc.]

1. Brief introduction __/3

[Describe your feature briefly]

2. Use case diagram with scenario _14

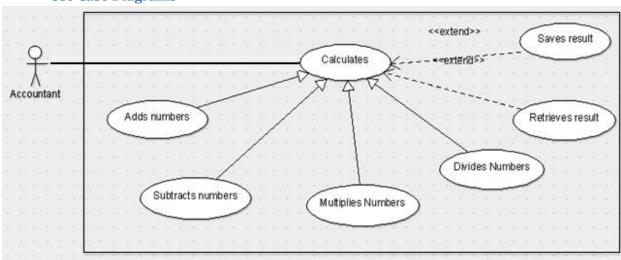
[Use the lecture notes in class.

Ensure you have at least one exception case, and that the <<extend>> matches up with the Exceptions in your scenario, and the Exception step matches your Basic Sequence step.

Also include an <<include>> that is a suitable candidate for dynamic binding]

Example:

Use Case Diagrams



Scenarios

[You will need a scenario for each use case]

Name: Add Numbers

Summary: The accountant uses the machine to calculate the sum of two numbers.

Actors: Accountant.

Preconditions: Calculator has been initialized.

Basic sequence:

Step 1: Accept input of first number.

Step 2: Continue to accept numbers until [calculate] is entered.

Step 3: Accept calculate command.

Step 4: Calculate and show result.

Exceptions:

Step 1: [calculate] is pressed before any input: Display 0.

Step 2: A button other than [calculate] or a number input is pressed: ignore input.

Post conditions: Calculated value is displayed.

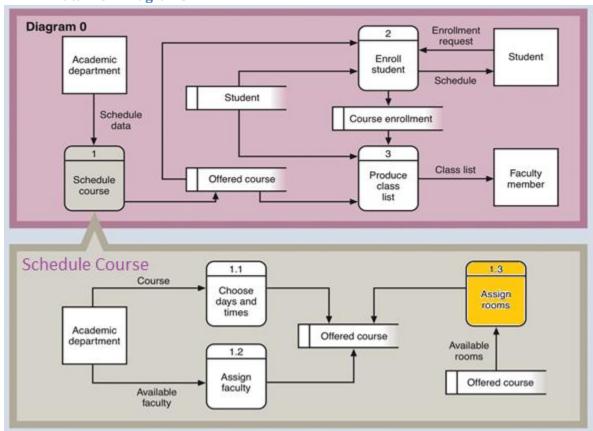
Priority: 2* ID: C01

3. Data Flow diagram(s) from Level 0 to process description for your feature _____14

[Get the Level 0 from your team. Highlight the path to your feature]

Example:

Data Flow Diagrams



Process Descriptions

Assign rooms*:

WHILE teacher in two places at once OR two classes in the same room Randomly redistribute classes

END WHILE

^{*}The priorities are 1 = must have, 2 = essential, 3 = nice to have.

*Notes: Yours should be much longer. You could use a decision tree or decision table instead if it is more appropriate.

4. Acceptance Tests _____9

[Describe the inputs and outputs of the tests you will run. Ensure you cover all the boundary cases.]

Example for random number generator feature

Run feature 1000 times sending output to a file.

The output file will have the following characteristics:

Max number: 9Min number: 0

- Each digit between 0 and 9 appears at least 50 times
- No digit between 0 and 9 appears more than 300 times
- Consider each set of 10 consecutive outputs as a substring of the entire output. No substring may appear more than 3 times.

Example for divide feature

Output	Numerator	Denominator	Notes	
	(int)	(int)		
0.5	1	2		
0.5	2	3	We only have 1 bit precision for outputs. Round all	
			values to the nearest .5	
0.0	1	4	At the 0.25 mark always round to the nearest whole	
			integer	
1.0	3	4	At the 0.75 mark always round to the nearest whole	
			integer	
255.5	5	0	On divide by 0, do not flag an error. Simply return	
			our MAX_VAL which is 255.5.	

5. Timeline _____/10

[Figure out the tasks required to complete your feature]

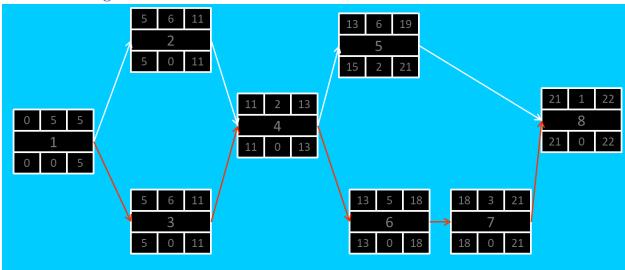
Example:

Work items

Task	Duration (PWks)	Predecessor Task(s)
1. Requirements Collection	5	-
2. Screen Design	6	1

3. Report Design	6	1
4. Database Construction	2	2, 3
5. User Documentation	6	4
6. Programming	5	4
7. Testing	3	6
8. Installation	1	5, 7

Pert diagram



Gantt timeline

