

## Diagram

```
@startuml ExampleUseCase
' This is an example comment
left to right direction
actor customer
actor clerk
rectangle checkout {
  customer -- (checkout)
  (checkout) .> (payment) : include
  (help) .> (checkout) : extends
  (checkout) -- clerk
}
@enduml
```

```
@startuml ExampleUseCase900
skinparam dpi 900
' This is an example comment
left to right direction
actor customer
actor clerk
rectangle checkout {
  customer -- (checkout)
  (checkout) .> (payment) : include
  (help) .> (checkout) : extends
  (checkout) -- clerk
}
@enduml
```

### ExampleUseCase.png

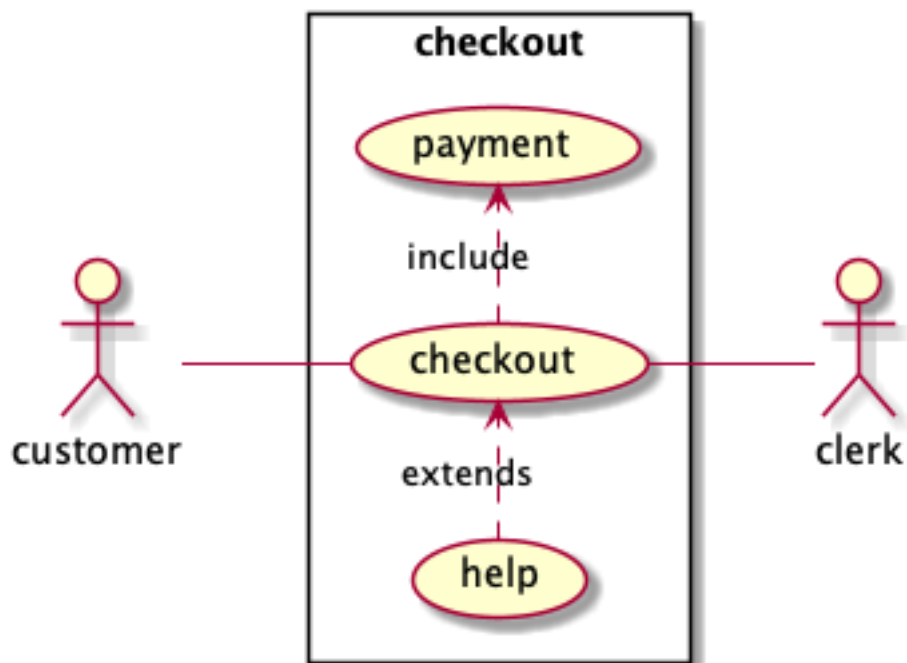


Figure 1: ExampleUseCase.png

This ExampleUseCase.png image is the original diagram generated by PlantUML.

## GeneratingExampleUseCase.png

```
[Preethas-MBP:~/Documents/Github/portfolio5-UP2036098] tptommy25% plantuml Diagram.puml -tpng -output images
[Preethas-MBP:~/Documents/Github/portfolio5-UP2036098] tptommy25% ls ExampleUseCase.*
ls: No match.
[Preethas-MBP:~/Documents/Github/portfolio5-UP2036098] tptommy25% ls
CheckList.md  Diagram.puml  LICENSE      README.md    Student.ID    build        images
[Preethas-MBP:~/Documents/Github/portfolio5-UP2036098] tptommy25% cd images
[Preethas-MBP:Github/portfolio5-UP2036098/images] tptommy25% ls ExampleUseCase.*
ExampleUseCase.png
[Preethas-MBP:Github/portfolio5-UP2036098/images] tptommy25%
```

Figure 2: GeneratingExampleUseCase.png

This image shows how ExampleUseCase.png image is generated using the command line with “plantuml Diagram.puml -tpng -output images” and adding it in the images folder.

## ExampleUseCase900.png

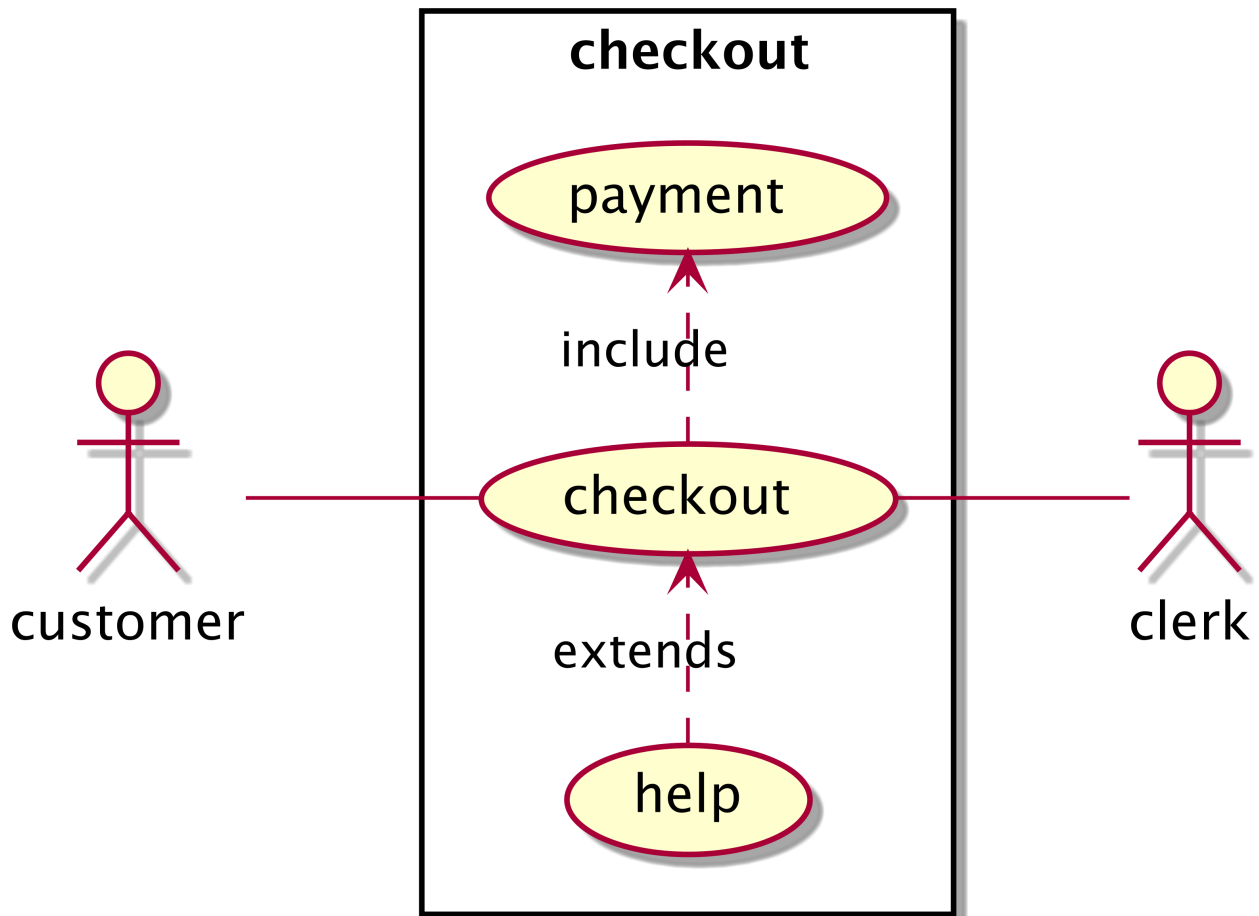


Figure 3: ExampleUseCase900.png

In this diagram, I have changed the resolution by adding “skinparam dpi 900” to the second diagram contents. Comparing to the original diagram, this diagram is more clearer even after zooming in the image has high resolution image.

## ExampleUseCase900Resolution.png

```
(0.914 - 130 Mo) 121 Mo - f=ExampleUseCase
(0.914 - 130 Mo) 121 Mo - Relative, so let's change it
(0.915 - 130 Mo) 121 Mo - f=/Users/tptommy25/Documents/Github/portfolio5-UP2036098/ExampleUseCase
(0.915 - 130 Mo) 121 Mo - It's not a directory
(0.915 - 130 Mo) 121 Mo - ExampleUseCase is not taken as a directory
(0.916 - 130 Mo) 121 Mo - We are going to put data in [0]
(1.211 - 130 Mo) 118 Mo - Compilation duration 294
(1.212 - 130 Mo) 118 Mo - Regex total/invoked/compiled 125/104/54
(1.212 - 130 Mo) 118 Mo - Matches created 68
(1.214 - 130 Mo) 118 Mo - Creating file: /Users/tptommy25/Documents/Github/portfolio5-UP2036098/ExampleUseCase.png
(1.388 - 130 Mo) 122 Mo - Starting Graphviz process [/usr/local/opt/graphviz/bin/dot, -Tsvg]
(1.388 - 130 Mo) 122 Mo - DotString size: 1175
(1.438 - 130 Mo) 121 Mo - Ending process ok
(1.439 - 130 Mo) 121 Mo - Ending Graphviz process
(1.541 - 130 Mo) 108 Mo - Creating image 346x261
(1.737 - 130 Mo) 99 Mo - name from block=ExampleUseCase900
(1.737 - 130 Mo) 99 Mo - Checking=ExampleUseCase900
(1.737 - 130 Mo) 99 Mo - f=ExampleUseCase900
(1.738 - 130 Mo) 99 Mo - Relative, so let's change it
(1.738 - 130 Mo) 99 Mo - f=/Users/tptommy25/Documents/Github/portfolio5-UP2036098/ExampleUseCase900
(1.738 - 130 Mo) 99 Mo - It's not a directory
(1.738 - 130 Mo) 99 Mo - ExampleUseCase900 is not taken as a directory
(1.738 - 130 Mo) 99 Mo - We are going to put data in [0]
(1.842 - 130 Mo) 98 Mo - Compilation duration 103
(1.842 - 130 Mo) 98 Mo - Regex total/invoked/compiled 125/120/57
(1.843 - 130 Mo) 98 Mo - Matches created 140
(1.843 - 130 Mo) 98 Mo - Creating file: /Users/tptommy25/Documents/Github/portfolio5-UP2036098/ExampleUseCase900.png
(1.884 - 130 Mo) 92 Mo - Starting Graphviz process [/usr/local/opt/graphviz/bin/dot, -Tsvg]
(1.885 - 130 Mo) 92 Mo - DotString size: 1175
(1.923 - 130 Mo) 91 Mo - Ending process ok
(1.923 - 130 Mo) 91 Mo - Ending Graphviz process
(2.004 - 130 Mo) 80 Mo - Creating image 3243x2446
(6.805 - 130 Mo) 85 Mo - Number of image(s): 2
[Preethas-MBP:~/Documents/Github/portfolio5-UP2036098] tptommy25% ▮
```

Figure 4: ExampleUseCase900Resolution.png

To know the resolution of the second image, “plantuml Diagram.puml -v” were executed in the commandline. The image has 3243x2446 dimension which is bigger then the original image with 346x261 dimension only. As we can see there is huge difference in both of this image.

## ExampleUseCase.svg

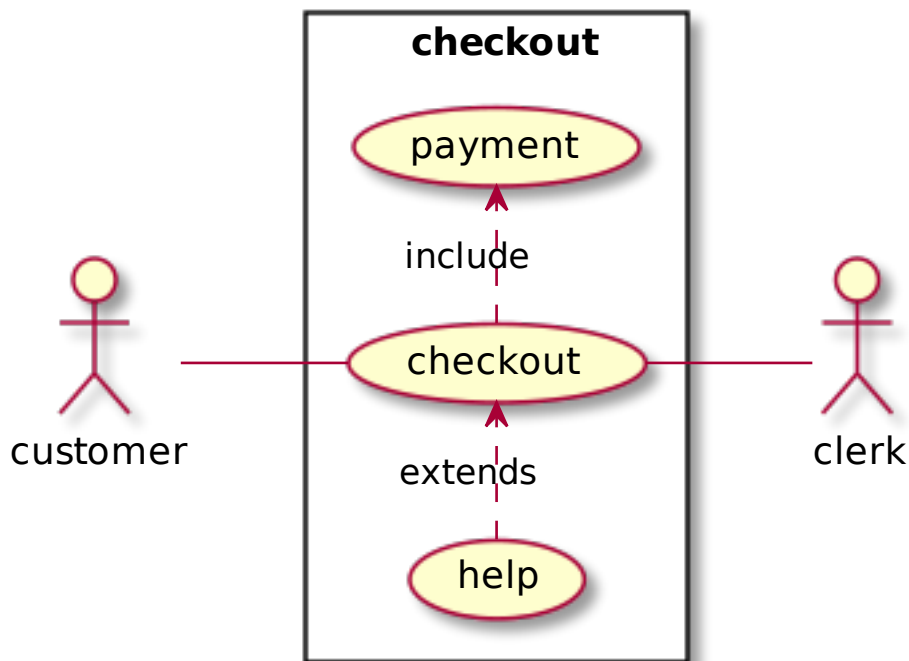


Figure 5: ExampleUseCase.svg

This image is generated as svg image with the PlantUML commandline “plantuml Diagram.puml -tsvg -output images” and adding it to images folder. Since svg images are describe a line as having a start and stop location and then describe the line, it has better quality comparing to the png image generated by PlantUML.

### ExampleUseCase900.svg

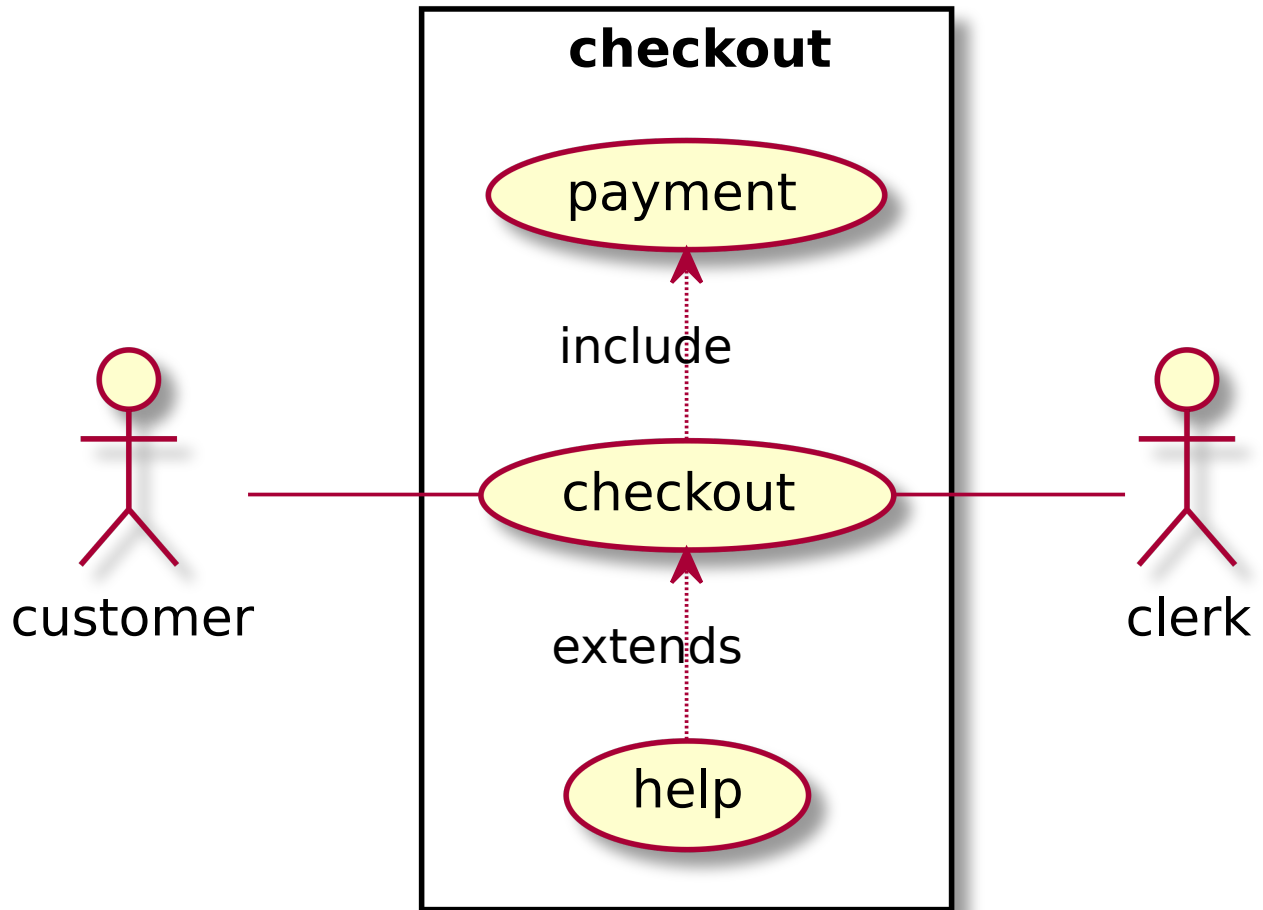


Figure 6: ExampleUseCase900.svg

Same as the previous image, svg has better quality even when zooming in depth. The difference between this two images can be seen clearly because the png image shows pixels of colours and svg image does not.

### Checklist

- ☒ Portfolio 5 Part 1
- ☒ Portfolio 5 Part 2
- ☒ Portfolio 5 Part 3
- ☒ Portfolio 5 Part 4
- ☒ Portfolio 5 Part 5
- ☒ Portfolio 5 Part 6
- ☒ Portfolio 5 Part 7
- ☒ Portfolio 5 Part 8
- ☐ Portfolio 5 Completed

Please accept as submitted and READY to be marked.

UP2036098