

Lab 5 - Part One

Req:

- Use Case description for "Prep Bills"
- 1+ UI sketches, showing bill prep & how Server will interact to prep bills.
- Seq diagrams for each significant interaction with bill prep UI.

Prep Bills Use-Case

preconditions:

- Server is logged-in to Server view and at least 1 table has made an Order

1. the Server presses the "Create Bills" button
2. the system prints a list of items on it with price, and prints the total at the bottom
3. the system saves the bill to a bill log and the table is emptied (cleaned)

Alternates & Exceptions:

• At step 1, the Server may select the button "Split bills". The system will then add the table number, all the ordered items at the table, total cost, and total cost divided by party size onto the printer tape.

• At step 1, the Server may select the button "Separate bills". The system will then add the table num, each seat number, all ordered items under the seat that ordered it and the total cost for each person

2. UI Drawings

Controller = Order Controller

Food

Food

Food

Food

Food

0 FOOD \$5
 0 FOOD \$5
 0 FOOD \$5
 0 FOOD \$5
 0 FOOD \$5

⋮

Receipt

Table #

Seat 1
(Food Price)
Seat 2
(Food Price)

Table #

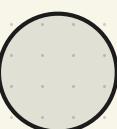
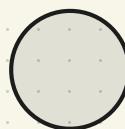
Seat 1
(Food Price)

Table #

Seat 1
(Food Price)
Seat 2
(Food Price)

⋮

Controller = Table Controller



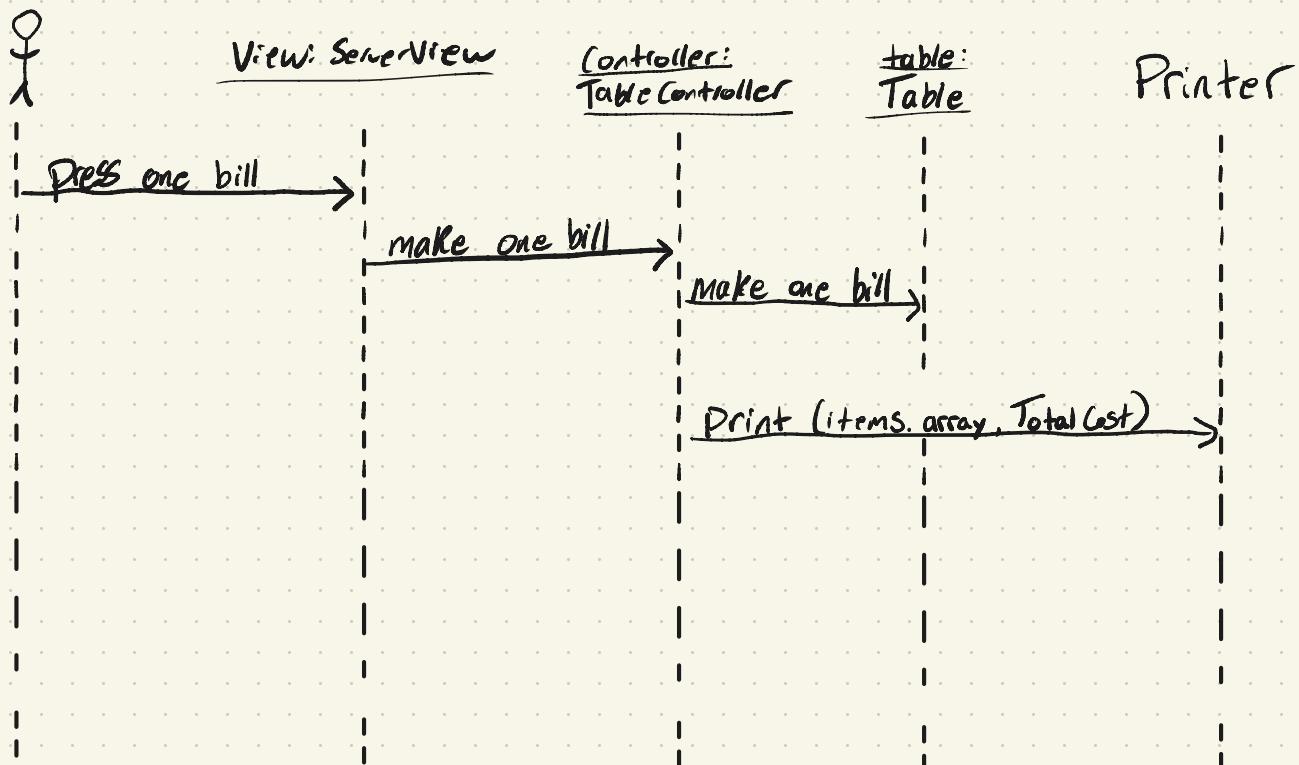
One Bill

Split Bills in ½

All Separate Bills

DONE

One Bill Seq Diagram



Split Bill Seq Diagram

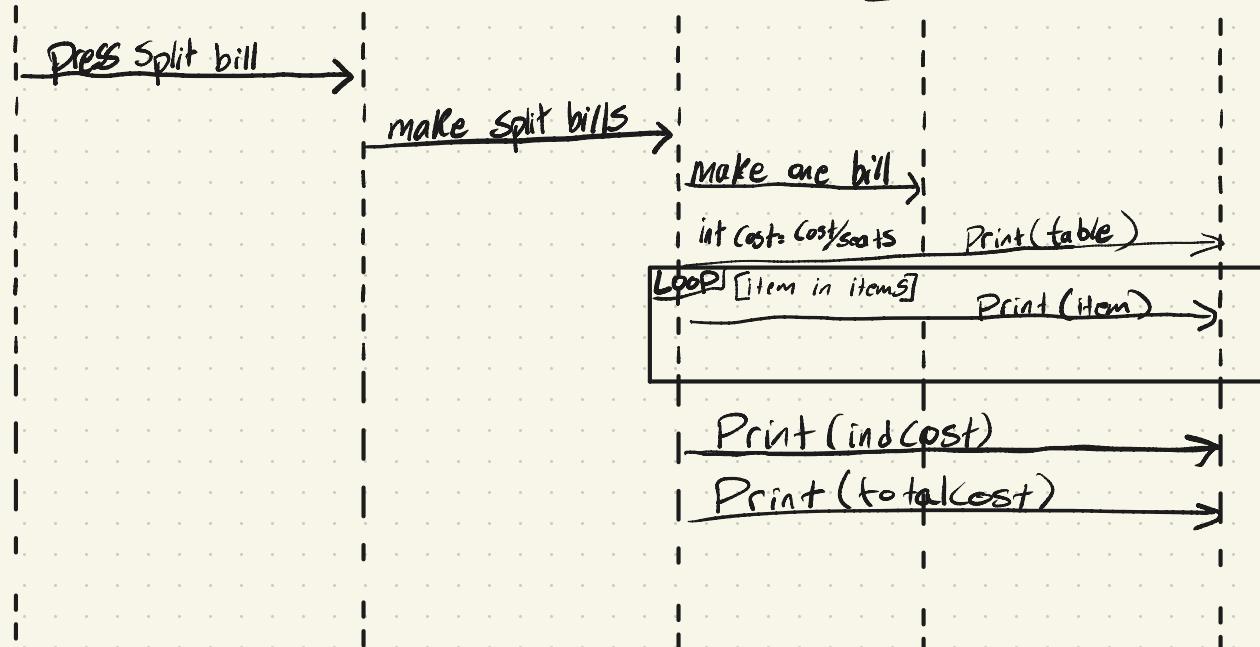


View: ServerView

Controller:
TableController

table:
Table

Printer



Separate Bill Seq Diagram



View: ServerView

Controller:
TableController

table:
Table

Printer

Press separate bill →

makeSeparateBills(Printer)

Loop [Seat in n seats]

MakeSeparateBills(Seat) →

print(Seat) →

loop [Item in Items]

print(item) →

print(total) →