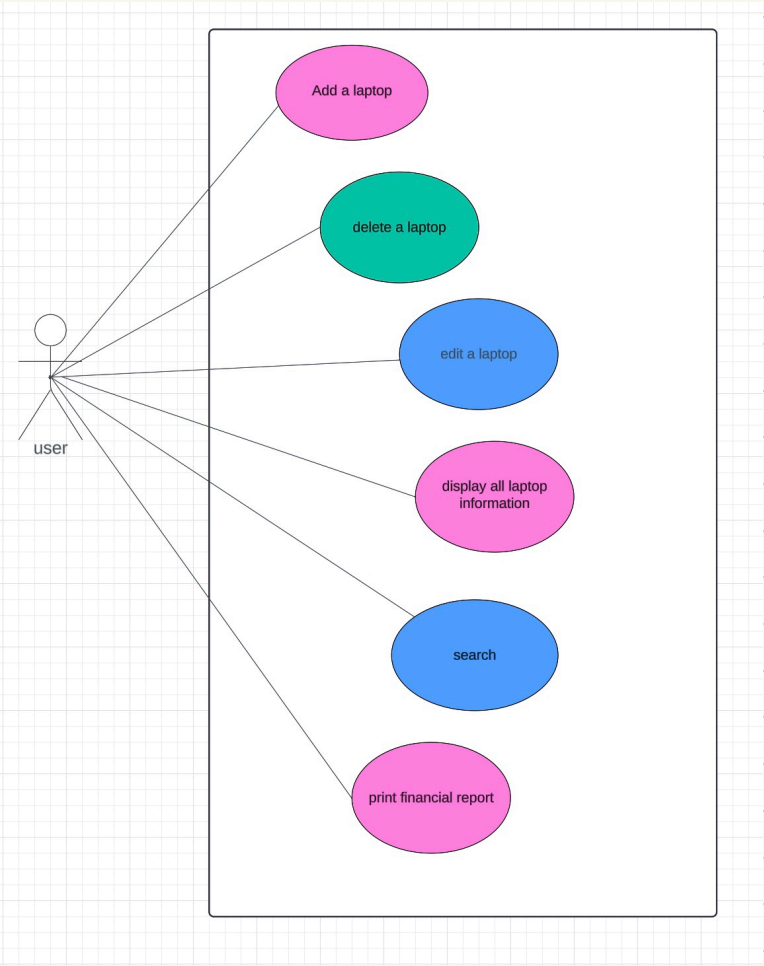
Part 1: Usecase Diagram



(descriptions next page)

1. UC Reference Name: Add a laptop
Overview: Create a new laptop entry in laptop directory with input values of brand, name, repair price, and customer payment
Related use cases: None
Actors: User
Preconditions: User clicks the “AddLaptop” button
Postconditions: A new laptop is added to the laptop repair app

2. UC Reference Name: Delete a laptop
Overview: Delete the repair information of a chosen laptop from the laptop directory
Related use cases: None
Actors: User
Preconditions: There’s at least one laptop in laptop repair directory and “DeleteLaptop” button is clicked
Postconditions: The picked laptop’s parameters are all set to null or 0

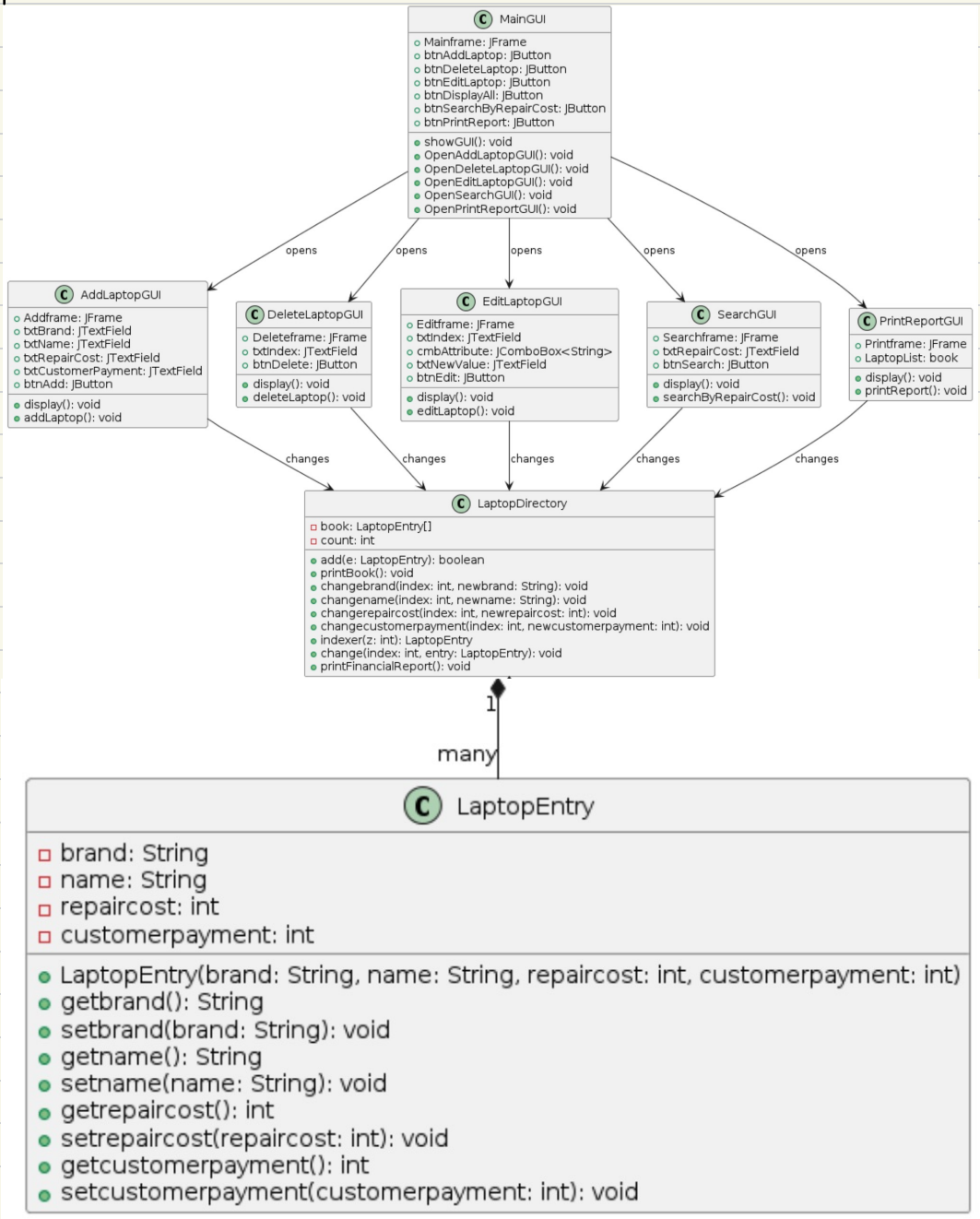
3. UC Reference Name: Edit a laptop
Overview: Modify brand, name, repair price, or customer payment of an existing laptop entry
Related use cases: None
Actors: User
Preconditions: There’s at least one laptop in the laptop repair directory and “EditLaptop” button is clicked
Postconditions: The selected laptop’s details are updated

4. UC Reference Name: Display all laptop information
Overview: Show information of all laptops existing in the laptop repair directory
Related use cases: None
Actors: User
Preconditions: User clicks the “display” button
Postconditions: Print the brand, name, repair price, customer payment of each laptop line by line in order

5. UC Reference Name: Search laptop
Overview: filter searching all laptops whose repair price is above a certain value imputed by the user
Related use cases: None
Actors: User
Preconditions: The compare price is provided and “SearchByRepairCost” button is clicked
Postconditions: Laptops matching the search criteria are displayed

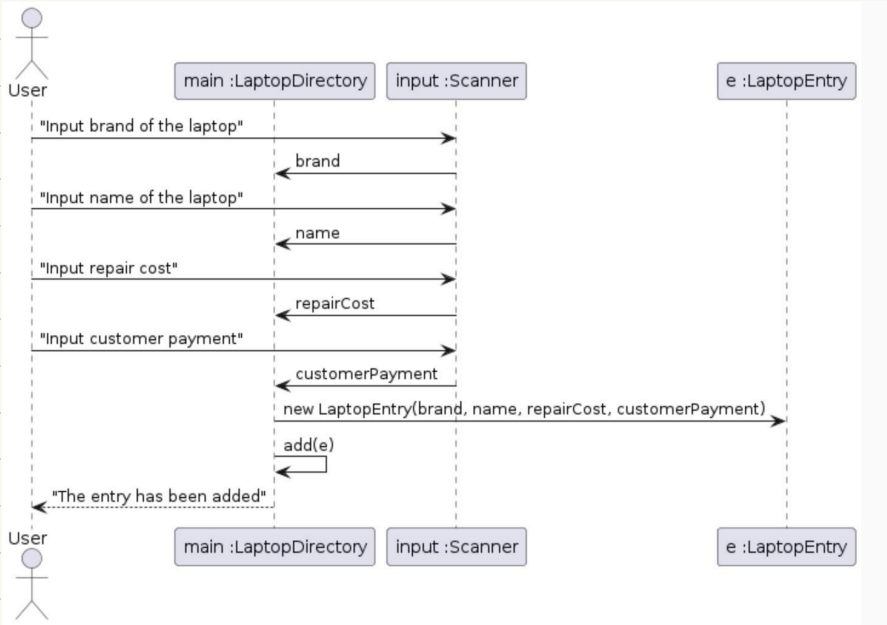
6. UC Reference Name: Print Financial Report
Overview: calculate how much spent, earned, and total profit of the laptop shop for repairing all the laptops
Related use cases: None
Actors: User
Preconditions: User clicks the “PrintReport” button
Postconditions: Generate a financial report that prints the total cost, revenue, and profit for repairing all laptops in the laptop directory

Part 2: Class Diagram

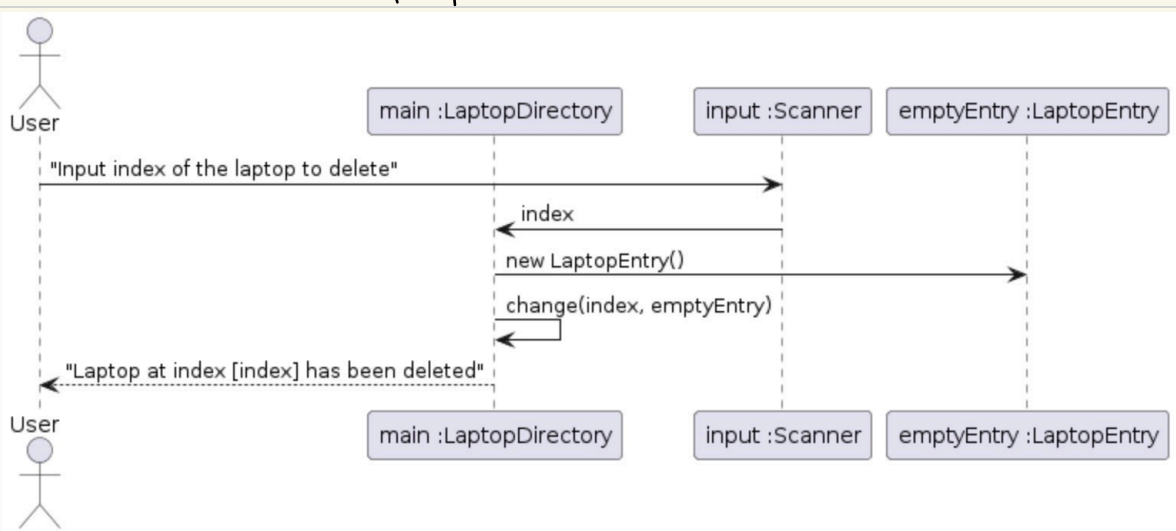


Part 3: Sequence Diagram

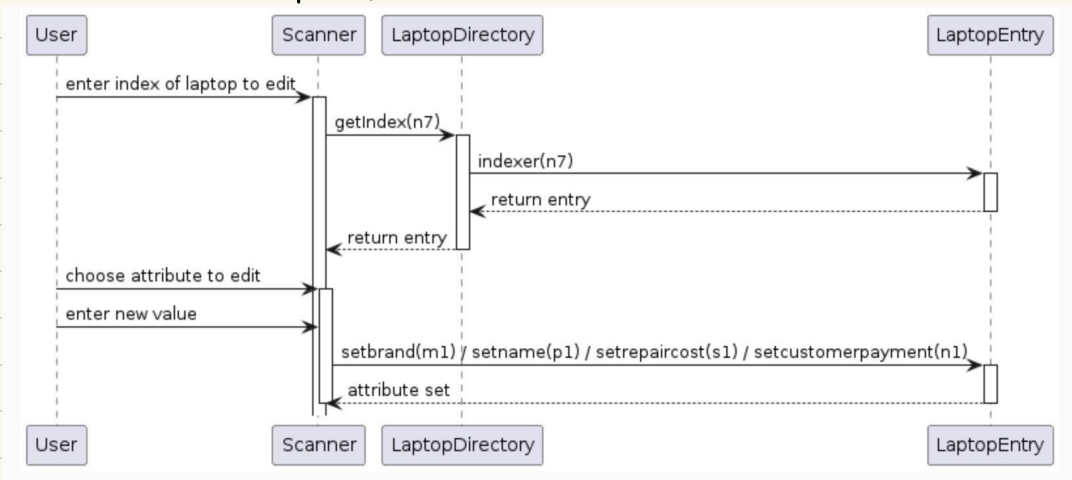
Add a laptop:



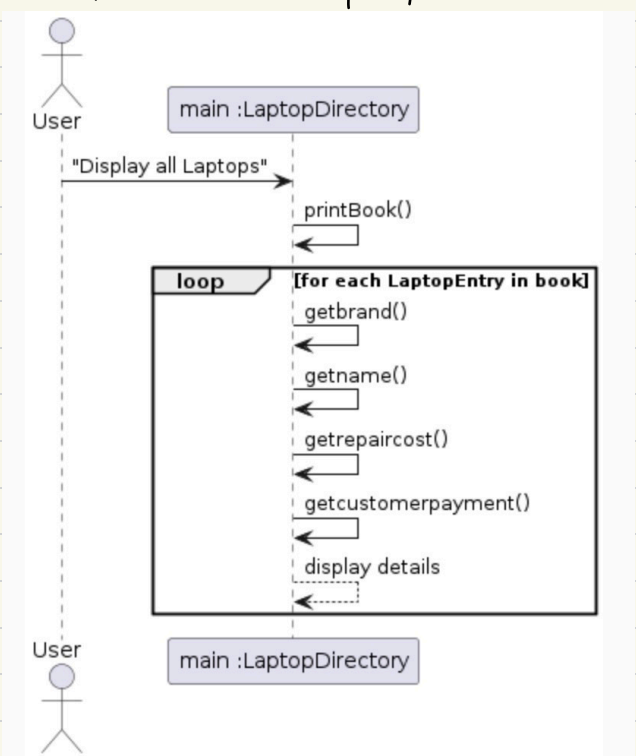
Delete a laptop:



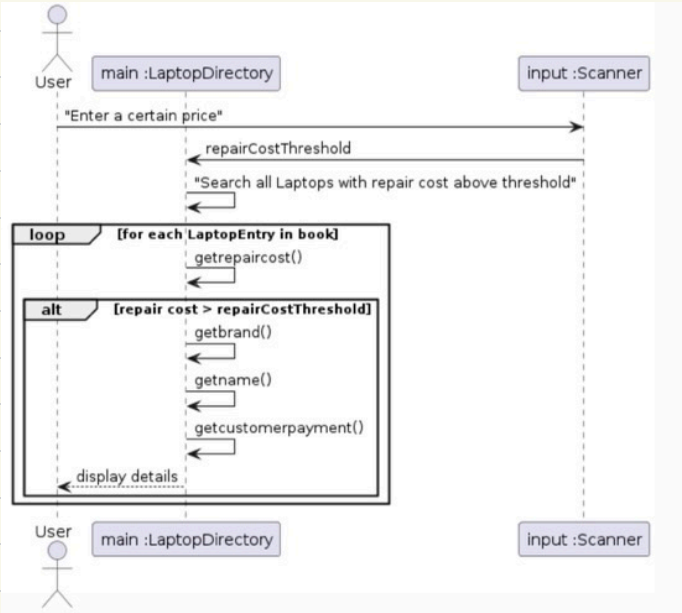
Edit a laptop:



Display all Laptops:



Search laptops above a certain repair price



Print Financial Report