Project on Java Programming: Post Office[1]

1 Post Office

1.1 Package recording

Create GUI, to able to record the package information received at post office. It should be able to do the following things:

- Each time when a new customer arrives, he/she wants to send one or more package(s).

- In case some customer may send several packages. The number of packages to be sent by each customer should be recorded in the system. The destination of packages should be recorded as well.

- A package should have features as: height, width, length, weight. While in reality, each parameter should not exceed the maximum value, to be admitted by the system.
  $\rightarrow$ Use 100cm, 100cm, 100cm, 100kg as the limit of each package.

- The price will be printed (in a TextField maybe, or use other components) according to the destination and weight of the package.
  $\rightarrow$ Price: 2euro per Kg for domestic package; 3euro per Kg for international package.

- The post office cannot store unlimited packages per day. The capacity of warehouse is 50 packages.

- If any of the above limits is not respected, error should be printed when submitting the information as a result in the GUI system.

- At the end of the day, a detailed list package information can be printed for the postman to handle and summarize.

*The designed GUI should be easy to use (no confusing interface), and considers as many types of exceptions as possible.

1.2 Bonus: Package and letter

If the customer wants to send letter using the same GUI, the application should have two menus, with different price for letter and package.

- Letter will be charged with different price (0.5 euro per domestic letter, 1 euro per international letter).

- Maximum weight 100g for each letter.

- capacity of letters: 200.

2 Requirement of report

- Explain how you design the GUI, what is the purpose of each block, component, and action connected to component.

- Try to use what we learned in the lecture as much as possible.

- Maximum 1 person, no group.

---

[1]Refer to the design of Dr. S.S. Wang