UNIVERSITI MALAYSIA PAHANG AL-SULTAN ABDULLAH	COURSE: Object Oriented Design & Implementation		MARKS: 100
	TOPIC: GUI & Event-driven Programming		CODE: DRC1213
	ASSESSMENT: LAB TASK	NO: 11	DURATION: 2 Hours

Lab Task #11: GUI & Event-driven Programming

QUESTION:

1. Create a new Project , name the project as <**StudentID_LT11**> i.e. < **RC24001_LT11**>
2. Copy the Lab Task 9 package into the project folder. *In case the project is unavailable, please refer to Lab Task 9 instruction.*

Specific Instruction:

1. Create 2 JFrame Forms as the following:
   1.1. `RentalCompLoadingGUI and MakeComputerRentalGUI.` For this lab, the event-driven programming only be applied for "Make Computer Rental" button only.

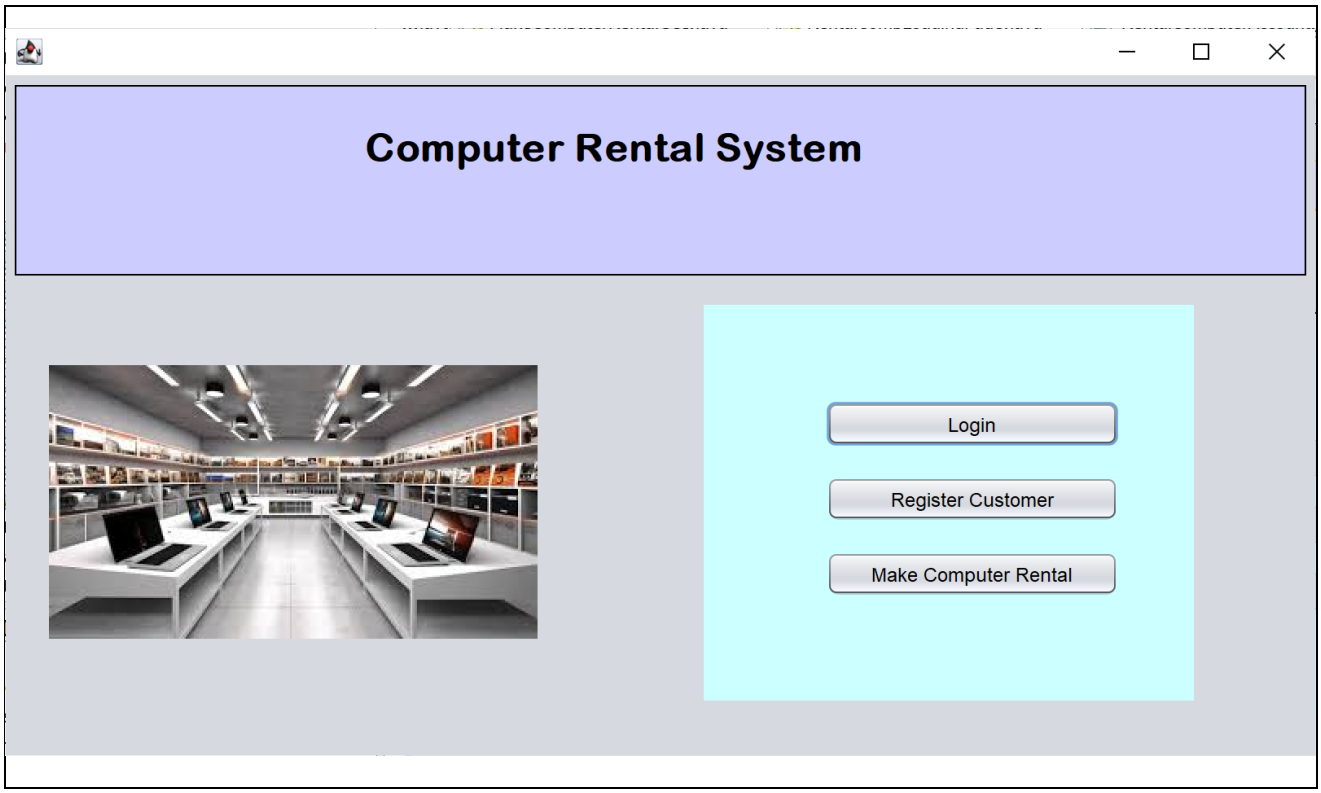


Figure 1: `RentalCompLoadingGUI` Wireframe

a) Develop the Java coding to execute event-driven programming for the swing controls as the following:

Swing Control names	**Method**	**Instructions:** **(The instructions below explain the sequence of the event shall be executed in the method. The student requires to write the java code by following the sequence statement)**
makeComputerRentalBtn	makeComputerRentalBtnActionPerformed ()	This button used to 1. To hide the `RentalCompLoadingPageGUI.` 2. To show `MakeReservationGUI`

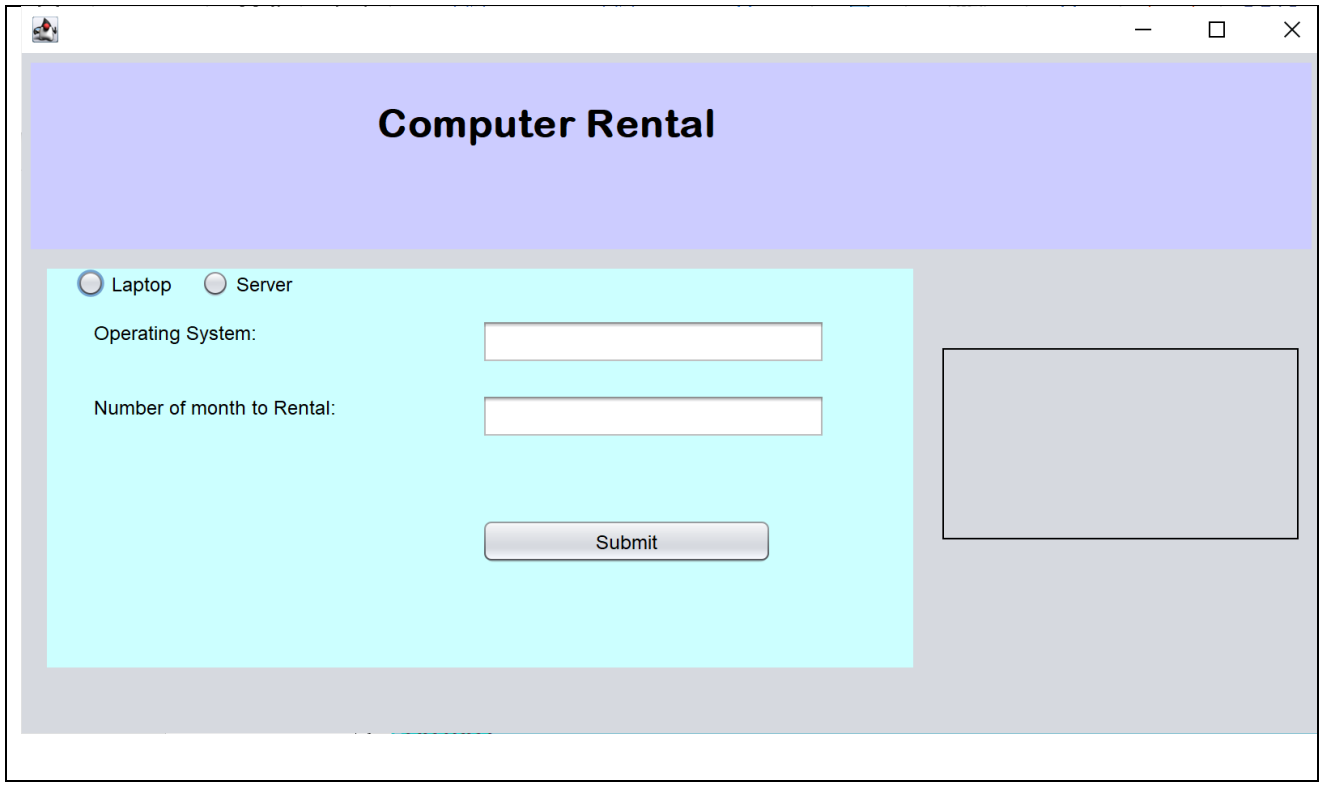


Figure 2: `MakeComputerRentalGUI` Wireframe

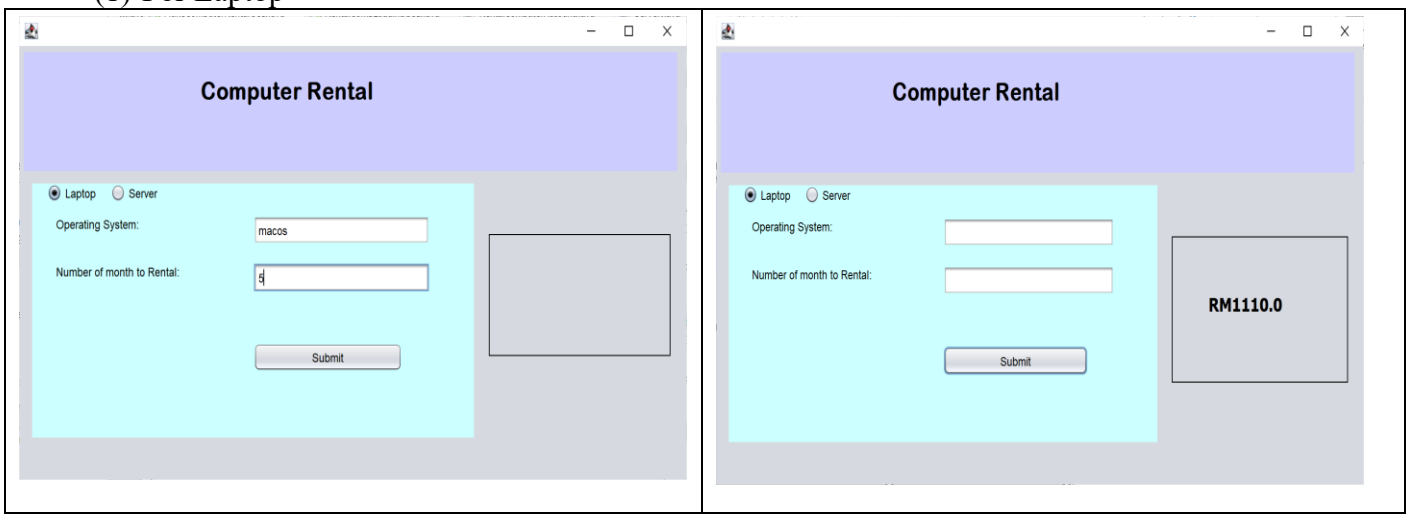
b) Develop the Java coding to execute event-driven programming for the swing controls as the following:

Swing Control names	Method	Instructions: (The instructions below explain the sequence of the event shall be executed based on the method. The student requires to write the java code by following the sequence statement)
-	`MakeComputerRentalGUI`	1. Create `rentalComputerAccount` object
-	`clearInput ()`	1. Clear the "text" in the `operatingOrStorageTxtFld`, and `monthRentalTxtFld`.

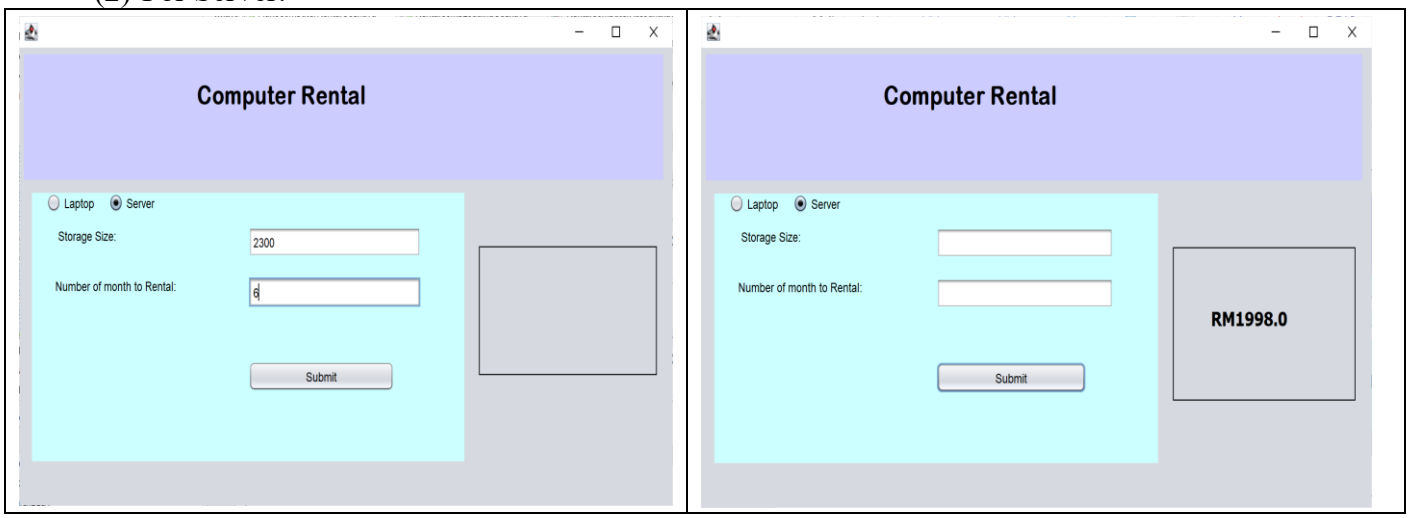
submitBtn	`submitBtnActionPerformed()`	This button event is used to 1. `If` the user chooses `laptopRadBtn`: 1.1. The system "get" the input from `operatingOrStorageTxtFld` and store the data in "`operatingSystem`" data member(*use this object: rentalComputerAccount.getLaptop().setOperatingSystem(..….)) . Then, the system "get" the input from `monthRentalTxtFld` and store the data in "`periodOfRental`" data member (*use this object: rentalComputerAccount.setPeriodOfRental(……)) 1.2. Then, the system called monthlyBasedPrice() by using rentalComputerAccount object for laptop. 1.3. Then, the system "set" the price of laptop at rentalPriceLbl by calling rentalComputerAccount.serverRentalPrice(). 1.4. Call the `clearInput() method` 2. `Else`, 2.1. The system "get" the input from `operatingOrStorageTxtFld` and store the data in "`storageSize`" data member(*use this object: rentalComputerAccount.getServer().setStorageSize(……..)). Then, the system "get" the input from `monthRentalTxtFld` and store the data in "`periodOfRental`" data member (*use this object: rentalComputerAccount.setPeriodOfRental(……)) 2.2. Then, the system called monthlyBasedPrice() by using rentalComputerAccount object for server. 2.3. Then, the system "set" the price of laptop at rentalPriceLbl by calling rentalComputerAccount.serverRentalPrice(). 2.4. Call the `clearInput() method`

These images show the system works:

(1) For Laptop



(2) For Server:



The answer (sample output from GUI and sequence diagram) must be saved in PDF format. Submit this files with all the java files in Kalam with the following format: <**STUDENTID_LT11.file extension**>. i.e., **RC24001_LT11.zipped**