## Faculty of Computing, Engineering and the Built Environment



Please fill in your name and student ID in the table below.			
Student Name	Prashanta Acharya, Srijana Subedi		
Student Number	24128456, 24128457		
Course and Year	BSc Computer Science 2022/23		
Module Code	CMP5332		
Module Title	Object Oriented Programming		
Module Leader	Dr Abdel-Rahman Tawil		
Assessment item:	Flight Booking System		

Students are required to complete this software implementation checklist for their Flight Booking System developed in Java. You need to select only the features that were implemented in your code. You can select all/some features from any marking range as long as they have been implemented in the code submitted for this assessment. For example, you can select all/some features from the marking range 40%-49% and all/some features under the range 70%-79% etc. This implementation checklist should be submitted with the PowerPoint documentation for this coursework.

**Important notice**: This checklist will assist the tutors when marking your code, hence, you should only select the feature requirements that are implemented in your code. Even if some features are not working correctly, you can still select them as long as there is evidence in your code showing the implementation attempt. However, it is not acceptable for a student to claim the implementation of features that were not attempted/implemented in the code. False claims are a clear indication that the student does not understand the submitted code, hence, the submission will be investigated further for plagiarism, and the tutor marking the assessment may invite the student to explain all/parts of the submitted code.

Checklist Interactive Library System			
Achieving a mark of 40% to maximum of 49%			
<ul> <li>Add new customers (passengers) to the system. System should store at least the following information for each customer: ID, Name, Phone Number and List of Bookings made.</li> </ul>			
List all customers stored in the system.	Ø		
<ul> <li>Issue bookings for customers. When a booking is issued for a customer, a Booking object must be created holding a reference to the outbound and return flights booked and to the customer that made the booking. This object should be added to the customer</li> </ul>	Ø		

list of flight bookings. In addition, the list of passengers in the Fligh	the Customer object should be added to not object.	
<ul> <li>Cancel bookings. A customer ca the booking should be updated to</li> </ul>	an decide to cancel a booking. The status of o reflect cancelation and also the flight uce the number of passengers for that	Ø
<ul> <li>Display details for a particular cu</li> </ul>	stomer including details for bookings (flight and price) they have made [showcustomer	Ø
<ul> <li>Display details for a particular flig phone number) [showflight comm</li> </ul>	ght including details for passengers (name, nand].	Ø
when the system is closed. The in three different files (flights.txt, format to save the different propertype Application section at the status of the booking system)	the backend storage (i.e. text file storage) flight booking system data should be stored customers.txt and bookings.txt). A sample erties for each object is given in the <b>Sample</b> above. When the system starts it should load from the text files to the memory.	Ø
Achieving a mark of 50% to maximum of 59%		
program to ensure that this inform	y) property and a price nake the appropriate changes to the mation can be captured when a new flight is ormation will be stored to and correctly	Ø
changes to the program to ensur	stomer class and make the appropriate re that this information can be captured . Also ensure that this information will be the file storage.	Ø
<ul> <li>Implement Unit Tests to validate made to the Flight and Customer</li> </ul>	and demonstrate that the above changes r classes work as expected.	Ø
Achieving a mark of 60% to maximum of 69%		
allow for the following basic functionaliti	ow that will show the list of customers	Ø
bookings they made.	their details including the number of	Ø
a customer is selected from the a popup window	ow that will show the Booking details if above created list. when the "Add" submenu of the "Customer" opup should display a form that allows the	Ø
addition of a new customer to the		Ø
storage after the execution of co (e.g. "addFlight", " <mark>updateBooking</mark> the file storage due to an error (e	ght system to allow for storing data to the file mmands that change the state of the system g"). If the system fails to store the data on e.g. file is already in use or corrupted), the od rollback any changes made to the system	Ø

prior		
	to the error. Hint: You can change the file permission to "read-only" in to test this functionality.	
	of 70% to maximum of 79%	
shou a flig a flig	nove (hide) existing flights from the system. When a flight is removed, it all not appear in the flight list view. Instead of completely deleting with, use a Boolean property in the Flight class to indicate whether with the control of the control	Ø
remo com clas	nove (hide) existing customers from the system. When a customer is oved, it should not appear in the customers list view. Instead of pletely deleting a customer, use a Boolean property in the Customer is to indicate that the customer is deleted. Change the affected functions opriately to return only the customers that are not deleted.	Ø
a flig allov	ose a limit on the maximum number of passengers that can be added to ght using the capacity property of the Flight class. The system should not to make a booking for a flight that is in full capacity and a message all dbe displayed to the user.	Ø
	nd the implementation for the GUI application to add a Delete tionality for both flights and customers using the GUI.	
•	Javadoc documentation only to the new methods created as part of this king band.	Ø
Achieving a mark	of 80% and over	
1		
this has	only flights that are in the future and have not departed. To implement functionality you need to use the systemDate to indicate whether a flight departed and a booking is completed. You have the flexibility to decide ow to complete the implementation of this functionality.	Ø
this has on h	functionality you need to use the systemDate to indicate whether a flight departed and a booking is completed. You have the flexibility to decide	Ø
this has on h Importanted book addi Calc days book fligh is m disp two	functionality you need to use the systemDate to indicate whether a flight departed and a booking is completed. You have the flexibility to decide ow to complete the implementation of this functionality.  The cancellation/rebook fee when customers cancel/update their king. The cancellation/rebook fee must be shown in the bookings in tion to the flights price.  Fullate a different (increased) price for each flight, based on how many is left for the flight to depart on the day of the king (current systemDate) and the capacity (number of seats left) for the true this price should be displayed when listing all flights before a booking ade. In addition, after a booking is made, this price should be stored and layed when showing the booking details for a customer. This means that bookings for the same flight, made by different customers on different	
this has on h Importanted book addi Calc days book fligh is m disp two date Com	functionality you need to use the systemDate to indicate whether a flight departed and a booking is completed. You have the flexibility to decide ow to complete the implementation of this functionality.  The cancellation/rebook fee when customers cancel/update their king. The cancellation/rebook fee must be shown in the bookings in tion to the flights price.  Fullate a different (increased) price for each flight, based on how many is left for the flight to depart on the day of the king (current systemDate) and the capacity (number of seats left) for the the thing the price should be displayed when listing all flights before a booking ade. In addition, after a booking is made, this price should be stored and layed when showing the booking details for a customer. This means that	Ø
this has on h Importanted book addi Calc days book fligh is m disp two date Com	functionality you need to use the systemDate to indicate whether a flight departed and a booking is completed. You have the flexibility to decide ow to complete the implementation of this functionality.  See a cancellation/rebook fee when customers cancel/update their king. The cancellation/rebook fee must be shown in the bookings in tion to the flights price.  Fullate a different (increased) price for each flight, based on how many is left for the flight to depart on the day of the king (current systemDate) and the capacity (number of seats left) for the true to the should be displayed when listing all flights before a booking ade. In addition, after a booking is made, this price should be stored and layed when showing the booking details for a customer. This means that bookings for the same flight, made by different customers on different is would display different prices.  The plete the implementation for the GUI application provided to allow for following functionalities:	Ø
this has on h Import book addi Calc days book fligh is m disp two date Com the f	functionality you need to use the systemDate to indicate whether a flight departed and a booking is completed. You have the flexibility to decide ow to complete the implementation of this functionality.  Dose a cancellation/rebook fee when customers cancel/update their king. The cancellation/rebook fee must be shown in the bookings in tion to the flights price.  Fullate a different (increased) price for each flight, based on how many is left for the flight to depart on the day of the king (current systemDate) and the capacity (number of seats left) for the true. This price should be displayed when listing all flights before a booking ade. In addition, after a booking is made, this price should be stored and layed when showing the booking details for a customer. This means that bookings for the same flight, made by different customers on different is would display different prices.  Diplete the implementation for the GUI application provided to allow for collowing functionalities:  Display Indicate the implementation for the GUI application provided to allow for collowing functionalities:  Display Indicate the implementation for the GUI application provided to allow for collowing functionalities:	Ø