Hotel Reservation System

Team 4

According to the requirements specified in the document we have come up with the following Class Responsibility Collaboration Cards and the Unified Modelling Language Diagram.

CRC Diagrams:

1) HotelMenu

RESPONSIBILITY	Hotel Menu	COLLABORATION
	Runs the Program	Request Handler Date Checker File Reader File Writer Analytics

ATTRIBUTES		Runs the Program	RESPONSIBILITY
		Request Handler Date Checker File Reader File Writer Analytics	COLLABERATION

2) Reservation

RESPONSIBILITY	Reservation	COLLABORATION
	Get room type list	Date Checker
	Add occupancy	File Reader
	Get Total Cost	

ATTRIBUTES		RESPONSIBILITY
Reservation Number Reservation Name Reservation Type Chech-In Check-out Number of Rooms Room Type Number of People Total Cost Availability	Get room type list Add occupancy Get Total Cost	
	Date Checker **File reader**	COLLABERATION

3) Existing Reservation:

R E S P O N S I B I L I T Y	Existing Reservation	COLLABORATION
	Increment Total	

ATTRIBUTES		R E S P O N S I B I L I T Y
Reservation Date Reserved Total	Increment Total	
		C O L L A B E R A T I O N

4) Analytics:

R E S P O N S I B I L I T Y	Analytics	COLLABORATION
	Income Occupancy Date Checker: checks dates for income and occupancy Payment Reader	TempRes TempPay

ATTRIBUTES	Income Occupancy Date Checker: checks dates for income and occupancy Payment Reader	R E S P O N S I B I L I T Y
	TempRes TempPay	C O L L A B E R A T I O N

5) DateChecker

R E S P O N S I B I L I T Y	Date Checker	COLLABORATION
	Finds Difference Checks for Leap Years Check Format Get Day Number Get Local Date Check Vacancy	Existing Reservation TempRes File Reader

ATTRIBUTES		
	Finds Difference Checks for Leap Years Check Format Get Day Number Get Local Date Check Vacancy	R E S P O N S I B I L I T Y
	Existing Reservation TempRes File Reader	C O L L A B E R A T I O N

6) FileReader

RESPONSIBILITY	File Reader	COLLABORATION
	Get Price Get Maximum Occupancy Read Reservations Get number of Reservations Check-In Check Last Number Maximum no. of rooms of particular type Get Check-In Get Type	Date Checker

ATTRIBUTES		
	Get Price Get Maximum Occupancy Read Reservations Get number of Reservations Check-In Check Last Number Maximum no. of rooms of particular type Get Check-In Get Type	RESPONSIBILITY
	Date Checker	COLLABERATION

7) FileWriter

RESPONSIBILITY	File Writer	COLLABORATION
	Remove Reservation Remove Payment Writes Reservation Writes Payment	TempRes TempPay

ATTRIBUTES		
Reservation Writer File Reservation Number Reservation Name Reservation Type Number of Rooms Room Type Total Cost Payment Writer File	Remove Reservation Remove Payment Writes Reservation Writes Payment	RESPONSIBILITY
	TempRes TempPay	COLLABERATION

8) RequestHandler

R E S P O N S I B I L I T Y	Request Handler	COLLABORATION
	New Reservation Display Reservation	Reservation File Writer File Reader

ATTRIBUTES		
	New Reservation Display Reservation	R E S P O N S I B I L I T Y
	Reservation File Writer File Reader	C O L L A B E R A T I O N

9) TempPay

R E S P O N S I B I L I T Y	TempPay	COLLABORATION
	Temporary Storage for Payments	

ATTRIBUTES	Temporary Storage for Payments	R E S P O N S I B I L I T Y
Reservation Number Check-In Check-Out Room Type Total Cost		C O L L A B E R A T I O N

10) TempRes

R E S P O N S I B I L I T Y	TempRes	COLLABORATION
	Temporary Storage for Reservations Loads CSV file into Memory	

ATTRIBUTES	Temporary Storage for Reservations Loads CSV file into Memory	R E S P O N S I B I L I T Y
Reservation Number Reservation Name Check-Out Reservation Type Room Type Check-In Number of Rooms		C O L L A B E R A T I O N

UML Diagram: