Hotel	
- Defines Hotel - Stores the Hotel - Gets type of Hotel - Adds new room type to Hotel - Gets number of rooms in Hotel	- TypeOfRoom

HotelInitialiser	
- Reads Hotel and Room data from specified file - Creates appropriate Hotel and TypeOfRoom objects and stores in list	- Hotel - TypeOfRoom

Room	
- Defines a room(ie. type,occupancy,room number) - Stores room - Finds how many rooms of this type are available between two dates - Returns the cost of a room by passing in the room's rates for the week	- Reservation - ReservationCancellationManager - TypeOfRoom - Hotel - HotelInitialiser

TypeOfRoom	
- Defines Room Types - Creates room object with type, occupancy and rates - Returns number of this type of room available	

Cancellation

• Gets Cancellation date • Creates Cancellation object • Returns Reservation date belonging to Cancellation. • Returns if Cancellation can be refunded • Returns Cancellation date • Convert to Csv format • Checks if reservation is refundable	• Reservation

Reservation

• Defines Reservation (ie. Standard or Advanced Purchase, check in and check out date,type of Room, occupancy,cost) • Stores the reservation • Calculates cost	• Room

Data Analysis

• Returns occupancy figures for each Hotel and Room type • Returns occupancy figures for each Hotel and Room type over specific period of time • Returns income figures for each hotel and room type • Returns income figures for each hotel and room type • Returns income figures for each hotel and room type over specific period of time • Goes through all cancellations and sees if there are income to be made from reservations that can't be cancelled • Returns cost of a room	• HotelInitialiser • Hotel • Reservation • Room • TypeOfRoom • Room • Cancellation • RandomReservationsGenerator

InputScanner

• Uses InputValidator and allows users to input their choices. Also allows them to re-enter until they reach a choice that is acceptable. • Takes the user through a bunch of reservation questions so a reservation instance can be completed	• InputValidator • Reservation • Room

InputValidator

• Necessary for other classes as it has various methods using regex • Validates the input if it is in the range given • Validates if the String input is an integer or not • Validates if the String input is a reservation type • Validates if String input is a double • Validates if String correctly represents an occupancy • Validates if String correctly represents a date	

PrintedMenus

• Necessary to print the menu that allows the user to see which options one might have. • Menu that gives the options for each submenu • Analytical menu that gives options for different sections • Method that prints out each String needed for the user	

Reader

• Will read the contents of files and convert them into Reservation and/or Cancellation objects.	• Reservation • Cancellation • Room

Writer	
• Writes both reservations and cancellations	• Reservation • Cancellation

ReservationCancellationManager	
• Keeps track of all the reservations • Provides numerous functionalities for these reservations.	• Reservation • Cancellation

ReservationSystem	
• Creates menus and sub menus so that the user can use all the different methods we have created. • Contains main run function which runs the startup menu	• InputScanner • PrintedMenus • Reader

SystemMain	
• Main driver of text UI	• ReservationSystem