Workflow of the Railway.Manage(); Program

1.Upon running,the user will be greeted with an introductory frame that contains the different functionalities of the program (each one accessed from a separate button) asking them to make a choice of which one they would like to preform.

2.1:if the user chooses “quick booking” ,another frame will open asking them to enter their various information and will store them in a relation concerned with collecting the passengers’ data.

After that,they get to choose which trip the would like to go on(from a pre-defined list),their seat,class...etc via another frame ,which is the main mean of booking a trip and will generate ticket ID if the booking was made successfully .

2.2:if the user chooses “view ticket”,a frame will open asking them to enter the ticket ID that was generated upon booking,when entered successfully ,the ticket information will be displayed to the user to view.

2.3:The option “Train Schedule”,enables the user to view all the trips available and their timings (departure and arrival) from another frame that will open when the button is selected,thus preforming a query of the relation storing the trips.

2.4:The “operator” button will only be useful to operators that wish to make slight modifications or queries to the existing information stored in the database,whether they are trips,passenger information,tickets...etc,when this button is selected,a frame will open that is capable of preforming such functionalities.

3:note that different exceptions can occur,such as entering an nonexistent ticket ID,invalid inputs or making illegal changes to the database.