Additional Feature Report

Additional Feature: Travel time

Feature Description: When the user has selected a train trip. E.g. Traveling from Central to Epping at 10:30am and arriving at 10:55am on a Monday. The user now has the option to return the travel time of this trip in minutes. So for the example given above, the travel time will return:

'The travel time for the selected trip from Central to Epping is 25 minutes.'

This is a simple yet realistically useful feature to the conversational agent. It is a quick way for the user to retrieve their train trips travel time so they can plan their day accordingly.

Feature Code:

```python
# Returns the travel time of the selected trip.
def travelTime():
    # Find the correct trip tuple in the stored timetable.
    for x in timetable["Table"]:
        # If the selected time matches the timetable tuple then create timeDiff.
        if selectedTime.get("Time") == x[1]:
            # Get the difference in minutes between the arriving time and departing time.
            timeDiff = (datetime.datetime.strptime(x[3], '%H:%M') -
            datetime.datetime.strptime(selectedTime.get("Time"), '%H:%M'))
            travelMins = str(int(timeDiff.total_seconds() / 60))
            # Return the travel time.
            return ("The travel time for the selected trip from "
                    + timetable["Departing"]
                    + " to "
                    + timetable["Arriving"]
                    + " is " + travelMins + " minutes."
                    + "\n\nComputer: Can I help you find a earlier or later train? or are you finished?")
```

The feature is triggered by the keywords 'travel time' once the user has already selected a train trip. The functions code is explained in comments and works as expected. It finds the trip based on the current selected time and subtracts the departing time from the arriving time.