Context Trip

inv binary Type Selection:

$$self.trip\_type = 'single' \text{ or } 'group'$$

inv binary Class Selection:

$$self.travelling\_class = 'first-class' \text{ or }$$
$$self.travelling\_class = 'second-class'$$

inv Trip Id Setup:

$$self.trip\_id \geq 100,000 \text{ and }$$
$$self.trip\_id < 1000,000$$

inv Client Id Check:

$$self.client\_id != null$$

inv Travel Date Check:

$$self.travel\_date != null$$

inv Tickets Not Empty:

$$self.tickets \rightarrow size() \geq 1$$

inv Total Cost Check:
$$self.total\_cost = cost * (self.tickets \rightarrow size()),$$
$$self.total\_cost > 0$$