

Ticket Machine Test Plan

-> changeConfig / stationList test plan

#	Name	Purpose	Expected	Actual
1	changeConfig	get user input to change the ticketMachine Uuid	receive Uuid and update	load ticketMachine configuration
2	createStation	create a new station and change its name or zone	new station created/name changed/zone changed	station name updated OR zone updated
3	modifyStation	purpose is to modify a existing station name, zone and add a ticket machine	station name or zone updated or new ticket machine added	station name or zone updated or ticket machine added
4	deleteStation	deletes a station from the database list	station deleted	station deleted
5	deleteStationError	deletes a station without first clearing the ticket machines in the station	couldnt delete station due to existing ticket machine	Error - unable to delete
6	deleteAllStations	clears the station list from the database	deletes all stations	all stations deleted
7	listStations	list all stations in the current database	list all stations	display a list of stations
8	listTicketMachines	lists all the ticket machines in a specific station	list all machines from a station	display all machines in station

-> ticketMachine.jsp test plan

#	Name	Purpose	Expected	Actual
1	getStartStationName	get the departure station name from the user input	assign start station name to a variable	station name assigned to a variable
2	getStartStationNameError	set a random name as station name to check if code breaks	error displayed as station name is not accepted	not error displayed (not implemented)
3	getStartZone	get the departure station zone and assign it to a variable	assign start zone to a variable	station zone assigned to a variable
4	getEndStationName	get the destination station name from the user input and assign it to a variable	assign destination name to a variable	destination name assigned to a variable
5	getDestinationZone	get the destination zone and assign to a variable	assign destination zone to a variable	destination zone assigned to a variable
6	getZonesTraveled	get the total zones traveled from the user input	assign the traveled zones to a variable	zones traveled assigned to a variable
7	calculatePrice	calculate the ticket price using the zones traveled variable * pricePerZone	set a ticket price to the ticket object	produces no result as it is not correctly implemented
8	generateTicket	generate a ticket XML code using a encoder	generate a valid ticket XML code	valid ticket XML generated
9	generateTicketError	generate a ticket XML using a random name for the stations	ticket XML not generated and error displayed	ticket XML generated (validation and error catching not implemented)

-> gate.jsp test plan

#	Name	Purpose	Expected	Actual
1	GetArrivalStation	Get the arrival station name from user input to then match the destination station on the ticket	get a valid station name and display it	displays the station name
2	GetArrivalStationError	get the arrival station name from user input, but the user has left the field blank OR with invalid station name	the station name will be invalid	Valid Station boolean will be false
3	DecodeTicket	get the ticket XML data from user and decode it to check if the Hash matches and the ticket is valid	display the ticket data	display ticket XML data
4	DecodeTicketError	get ticket data from user and change a letter in the ticket Hash	decoding will fail	gate remains closed as Hash doesnt match
5	ValidateDate	check the arrival time and check against the time the ticket was issued and check if its valid	get the current time and compare with ticket and if valid, open the gate	display gate is open
6	ValidateDateNotValid	set the arrival time to more than 4 hours after the ticket issue date and check if valid	expected to fail because the arrival time is after the 4 hour limit for a ticket	display gate is locked
7	ValidateStation	get the destination station from the ticket and check if it matches the arrival station	Stations match and boolean validStation is true	validStation is true
8	ValidateStationError	get the destination station from the ticket and set a different station as arrival station	Stations dont match and boolean validStation will remain false	validStation is false and gate will remain closed
9	OpenGate	check if the booleans validStation, validDate and validFormat are all true and open gate	booleans are all valid and gate will open	Gate opens
10	OpenGateError	one the booleans is false and gate will not open	gate will remain closed as not all booleans are valid	Gate remains closed