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| **Name** | ViewJourneysOnRoute |
| **Purpose** | To allow HCs to view the journeys currently running on a given route. |
| **Prerequisites** | HC passing a route number |
| **Narrative** | The HC will view the journeys by selecting the appropriate option in the main menu then passing the route number they wish to view. |
| **Alternatively** |  |
| **Outcome** | All journeys on that route are displayed. |
| **Alternative Narrative** | No number is passed by HC. |
| **Outcome** | HC is prompted to enter a route number. |

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| **Name** | ViewTimetablesOfRoute |
| **Purpose** | To allow HCs to view the timetable of a route. |
| **Prerequisites** | HC passing a route number |
| **Narrative** | The HC will view the timetable of a route by selecting the appropriate option in the main menu then passing the route number they wish to view. |
| **Alternatively** |  |
| **Outcome** | Timetable of that route are displayed. |
| **Alternative Narrative** | No route number is passed by HC. |
| **Outcome** | HC is prompted to enter a route number. |

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| **Name** | GetBusState |
| **Purpose** | To allow HCs to view the state of a bus |
| **Prerequisites** | HC passing a bus’ unique ID |
| **Narrative** | The HC can view the state of a bus by passing the ID number of that bus. |
| **Alternatively** |  |
| **Outcome** | Information like the operational state, last departure time and driver of that bus is displayed. |
| **Alternative Narrative** | No ID number is passed by HC. |
| **Outcome** | HC is prompted to enter an ID number. |

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| **Name** | CancelJourney |
| **Purpose** | To allow HCs to cancel given journeys. |
| **Prerequisites** | HC selecting a journey to cancel  The bus malfunctioning |
| **Narrative** | The HC can cancel a journey, if a bus is malfunctioning, by selecting the cancel journey option and entering the journey ID they wish to cancel. |
| **Alternatively** | The journey is not cancelled. |
| **Outcome** | The journey is cancelled. |
| **Alternative Narrative** | If the bus is working correctly, the HC can reject the request to cancel a journey. |
| **Outcome** | The journey continues. |

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| **Name** | AddNewBus |
| **Purpose** | To allow HCs add new buses to the system. |
| **Prerequisites** | None |
| **Narrative** | The HC can add new buses to the system by using the AddNewBus function. |
| **Alternatively** |  |
| **Outcome** | New blank bus is added |
| **Alternative Narrative** | The HC doesn’t use the option to add a new bus. |
| **Outcome** | No new bus is added. |

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| **Name** | ModifyBus |
| **Purpose** | To allow HCs to modify information about a bus. |
| **Prerequisites** | Selected bus must exist in the system |
| **Narrative** | The HC can modify the state of a bus by using the ModifyBus function, entering the ID of the bus to change and entering the bus’ new operational state and it’s new bus route. |
| **Alternatively** |  |
| **Outcome** | The state of the bus is changed |
| **Alternative Narrative** | The HC can enter a wrong bus ID |
| **Outcome** | A message prompts to re-enter the bus ID |

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| **Name** | AssignDriverToBus |
| **Purpose** | To allow HCs to assign different drivers to a bus |
| **Prerequisites** | Both the selected driver and bus must exist in the system  Bus must be operational |
| **Narrative** | The HC can modify reassign the driver of a bus by selecting the AssignDriverToBus function and entering the ID of the driver and bus. |
| **Alternatively** |  |
| **Outcome** | The driver of the bus is changed |
| **Alternative Narrative** | The HC can enter a wrong bus or driver ID |
| **Outcome** | A message prompts to re-enter the bus or driver ID |

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| **Name** | ModifyBus |
| **Purpose** | To allow HCs to modify information about a bus. |
| **Prerequisites** | Selected bus must exist in the system |
| **Narrative** | The HC can modify the state of a bus by using the ModifyBus function, entering the ID of the bus to change and entering the bus’ new operational state and it’s new bus route. |
| **Alternatively** |  |
| **Outcome** | The state of the bus is changed |
| **Alternative Narrative** | The HC can enter a wrong bus ID |
| **Outcome** | A message prompts to re-enter the bus ID |

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| **Name** | SwipeEnteranceReader |
| **Purpose** | To allow passengers to get onto the bus |
| **Prerequisites** | The bus must be currently doing a journey |
| **Narrative** | A passenger must scan their card as they get on the bus and have enough money on that card to be allowed entry. |
| **Alternatively** | They are denied entry if they do not scan their card. |
| **Outcome** | A green light is shown, a happy beep sound is made and the passenger is allowed on the bus |
| **Alternative Narrative** | A passenger does not have enough money on their card as they enter the bus |
| **Outcome** | An angry beep is made, a red light is flashed and the driver denies the person entry. |

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| **Name** | SwipeExitReader |
| **Purpose** | To correctly calculate and process the amount charged to a passengers card |
| **Prerequisites** | Passenger must have scanned their card on entry |
| **Narrative** | A passenger wishing to exit the bus will scan their card on the exit reader, their fee will be worked out based on their entry and exit stops and will be shown on the screen before being charged to their account. |
| **Alternatively** |  |
| **Outcome** | The passenger is charged the calculated fee. |
| **Alternative Narrative** | The passenger exits the bus without scanning their card. |
| **Outcome** | The maximum fee from their entry stop is charged to their account. |

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| **Name** | StartJourney |
| **Purpose** | To allow drivers to start a journey on their given route |
| **Prerequisites** | The bus must be in service |
| **Narrative** | The driver can start a journey by pressing the StartJourney function on the bus’ interface followed by them entering the number of the route they are going to drive. |
| **Alternatively** |  |
| **Outcome** | The journey is started on that route |
| **Alternative Narrative** | The driver enters a non-existent route number by accident. |
| **Outcome** | A message prompts to re-enter the route number as the one entered is incorrect. |

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| **Name** | EndJourney |
| **Purpose** | To allow drivers to end the journey they are currently doing |
| **Prerequisites** | The bus must currently be doing a journey  The last stop must have been called at |
| **Narrative** | The driver will end their journey by selecting this option on their interface after they have called at the last stop in the route. |
| **Alternatively** |  |
| **Outcome** | The journey is ended and any passengers still on the bus must exit and get back on again once a new journey is started |
| **Alternative Narrative** | The driver tries to cancel the journey before the last stop is called at. |
| **Outcome** | An error message is shown and the journey is not cancelled |

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| **Name** | RequestJourneyCancelation |
| **Purpose** | To allow the driver to get a journey cancelled in the event of a malfunction |
| **Prerequisites** | The bus must be malfunctioning |
| **Narrative** | The driver can contact a HC via telephone to request a journey cancelation due to bus malfunction or some other unexpected circumstance. |
| **Alternatively** |  |
| **Outcome** | The HC will cancel the journey, mark the bus as out of service and arrange a replacement bus to do that journey. |
| **Alternative Narrative** | The driver can contact a HC to cancel a journey when there is no reason to warrant a cancelation. |
| **Outcome** | The HC will deny the request and the journey will continue. |