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Use Case Descriptions

BuzApp Project Specification

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**Use Case Descriptions**

**Add Favourites**

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| Use Case Name | Add Favourites |
| Participating Actors | User, Transport API |
| Flow of Events | Normal Path   1. Use case gets nearest list from Transport API 2. API loads 7 nearest stops to their location 3. The user selects a bus stop from the list 4. The User clicks on the add button from the bus stop information 5. This bus stop is added to the user’s favourites list   Alternative Path   1. Use case calls the API 2. The API has run out of hits and therefore doesn’t send data back 3. No data sent back to the user 4. User has to wait until the next day when the hits are reset |
| Entry Condition | * User enabled location services * Application gets location of user |
| Exit Condition | * Favourite Bus Stop Added * User closes app |

**Get Favourites Information**

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| Use Case Name | Get Favourites Information |
| Participating Actors | Transport API, User |
| Flow of Events | Normal Path   1. The app retrieves the user’s favourite stops 2. User selects one of their favourite stops 3. Transport API uses this to find all the information about the next buses 4. The Transport API will then find the next 5 buses that are arriving at that stop   Alternative Path   1. User selects one of their favourite stops 2. The Transport API has run out of hits and can’t get the user’s favourite stops information 3. The user has to wait until the next day to get this information |
| Entry Condition | * User has a favourite stop added |
| Exit Condition | * User closes app |

**Retrieve Favourites Stops**

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| Use Case Name | Retrieve favourite stops |
| Participating Actors | Transport API, User, Mapkit |
| Flow of Events | Normal Path   1. The app retrieves the user’s favourite stops 2. User selects one of their favourite bus stops 3. Mapkit gets the location of the bus stop and user and shows directions from the user to the stop 4. Transport API then gets the bus information and displays the next 5 buses leaving that stop   Alternative Path  Condition 1:   1. User doesn’t enable location services 2. Mapkit can’t get the location of the user and the bus stop 3. User enables location services from settings   Condition 2:   1. The app retrieves the user’s favourite stops 2. User selects one of their favourite stops 3. Mapkit gets the location of the bus stop and user 4. The Transport API has hit its daily limit and is unable to display the next 5 buses 5. User has to wait until the next day to make this request |
| Entry Condition | * User enabled location services * Location of user retrieved * User has a favourite stop added |
| Exit Condition | * User closes app |

**Adds to and from location**

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| Use Case Name | Adds to and from location |
| Participating Actors | User, Mapkit, Transport API |
| Flow of Events | Normal Path   1. The user inputs the to and from location for their journey 2. The user then presses the button to calculate the length of this journey 3. The transport API then takes the two locations and calculates the length of the journey, detailing the route the user should take   Alternative Path  Condition 1:   1. User enters a location that doesn’t exist 2. The transport API cannot find this location so the journey duration and route isn’t retrieved   Condition 2:   1. The user inputs the to and from location 2. User selects to calculate the journey 3. The Transport API has hit its daily limit and is unable to retrieve the duration and route of the journey 4. User has to wait until the next day to make this request |
| Entry Condition | * User enabled location services * Location of user retrieved |
| Exit Condition | * User closes app |

**Gets bus time and journey duration**

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| Use Case Name | Gets bus time and journey duration |
| Participating Actors | Transport API, User |
| Flow of Events | Normal Path   1. The user enters the to and from location and calculates the journey 2. Transport API uses this to find the information about how to get to the destination, with the route the user can take and the expected arrival time 3. The Transport API will then display this route to the user   Alternative Path   1. User enters the to and from location and calculates journey 2. The Transport API has run out of hits and can’t get the user’s journey information 3. The user has to wait until the next day to get this information |
| Entry Condition | * User has a favourite stop added |
| Exit Condition | * User closes app |

**Request Calendar Access**

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| Use Case Name | Request Calendar Access |
| Participating Actors | User, EKEvent |
| Flow of Normal Events | Access given to access calendar   1. User requests for calendar access 2. EventKit authorises calendar access to the user |
| Flow of Alternative Events | User denies access to calendar   1. User denies access to calendar 2. EKEvent doesn’t give permission to the user to access the calendar 3. User needs to allow permission to access the calendar |
| Pre-condition | * Application idle on calendar storyboard |
| Post-condition | * Access given to the user to access the calendar |

**Check Calendar Access**

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| Use Case Name | Check Calendar Access |
| Participating Actors | User, EKEvent |
| Flow of Normal Events | Access authorised to access calendar   1. User requests for permission to access the calendar 2. EKEvent checks authorisation status 3. Extend Requests Calendar Access 4. Permission given to the user |
| Flow of Alternative Events | Access denied to calendar   1. User denies access to calendar 2. EKEvent checks authorisation status 3. Extend Requests Calendar Access 4. User denied to access calendar 5. User requires to allow permission to access calendar |
| Pre-condition | * Application idle on calendar storyboard |
| Post-condition | * User authorised to access calendar |

**Get Calendar Events**

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| Use Case Name | Get Calendar Events |
| Participating Actors | User, EKEvent, EKCalendar |
| Flow of Normal Events | Gets calendar events   1. Include check calendar access 2. EKCalendar gets all available calendar titles from the calendar 3. Each event from the calendar is found 4. Events from the calendars are displayed to the user |
| Flow of Alternative Events | Unable to get calendar events   1. EKCalendar gets all available calendar titles from the calendar 2. No events found from the calendar 3. No events displayed to the user |
| Pre-condition | * User authorised to access the calendar |
| Post-condition | * Events have been retrieved from the various calendars and ready to be displayed to the user |

**Retrieve Calendar Events**

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| Use Case Name | Retrieve Calendar Events |
| Participating Actors | User, EKEvent, EKCalendar |
| Flow of Normal Events | Retrieve calendar events   1. Include get calendar events 2. Calendar events are displayed to the user |
| Flow of Alternative Events | Unable to retrieve calendar events   1. Include get calendar events 2. Calender events not displayed |
| Pre-condition | * User authorised to access the calendar |
| Post-condition | * Events displayed to the user from all available calendars |