BUZAPP PROJECT SPECIFICATION

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Version Control			
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Use Case Descriptions

Add Favourites

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

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

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

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

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

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

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

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

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 Pre-condition	User authorised to access the
	calendar
Post-condition	Events displayed to the user from all
	available calendars