Brock Butler Use Case Specification
UC–MAP04 Calculate Navigation Route
Date Modified: 02/05/2013
Version: 1.0

Revision History

Date	Version	Change	Author
02/05/2013	1.0	Initial Draft	Thomas Nelson

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1. **Use Case Narrative**

Name	Description	
Brief Description	Navigation Route is calculated using wireless signal strength and a location table	
Preconditions	- System needs the navigation route - Wi-Fi is available	
Post-Conditions	- Routs is calculated - Position is returned to the system	
Triggers	System requests the users location	
Flow of Events	Basic Flow	
	1	System requests navigation route (UC-MAP03)
	2	Systems gathers wireless signal strength from available routers - Alternate Flow A
	3	System generates current location from router signals - Alternate Flow B

		- Alternate flow C
		System generates destination position - Alternate Flow D
		System calculates route between position and destination - Alternate Flow E
	4	Return route coordinates to system (UC-MAP03)
Alternate Flow	Alternate Flow A: Wi-Fi not available or less than 3 routers	
	A1	Return failure condition
	Alternate Flow B: Multiple locations returned	
	B1	Select location nearest to previous location
	Alternate Flow C: No locations Returned	
	C1	Return failure condition
	Alternate Flow D: Destination does not exist	
	D1	Return failure condition
	Alternate Flow E: Route is not calculated	
	E1	Return failure condition

2. **Use Case Sign-off**

Name	Approval Status
Matthew Menonkariyll	
James Grisdale	
Taras Mychaskiw	