	DP0: Distributed software application	DP1: Microblog data	DP1.1: Twitter API	DP1.1.1:	DP1.2: Data store	DP1.3: Stemming algorithm	DP1.4: TF-IDF	DP1.4.1:	DP1.4.2:	DP1.5:	DP1.6:	DP2: Computer application	DP2.1: Application alert	DP2.2:	DP3:	DP3.1: Text message	DP3.2: Web-based application	DP3.2.1:	DP3.2.2:
FR0: Microblog 911: Emergency Detection and Notification System	X																		
FR1: Detect emergency situation		X										O	O	O	O	O	O	O	O
FR1.1: Collect microblog data			X		O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
FR1.1.1: Request message data				X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
FR1.2: Store microblog data			O	O	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O
FR1.3: Pre-process microblog data			O	O	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O
FR1.4: Group microblog data			O	O	X	O	X			O	O	O	O	O	O	O	O	O	O
FR1.4.1: Request message reposts			X	O	O	O		X	O	O	O	O	O	O	O	O	O	O	O
FR1.4.2: Request author followers			X	O	O	O		O	X	O	O	O	O	O	O	O	O	O	O
FR1.5: Score microblog data groups			O	O	X	O	O	O	O	X	O	O	O	O	O	O	O	O	O
FR1.6: Identify high scoring groups as emergency situations			O	O	X	O	O	O	O	O	X	O	O	O	O	O	O	O	O
FR2: Interact with emergency services personnel		O	O	O	O	O	O	O	O	O	O	X			O	O	O	O	O
FR2.1: Notify emergency services personnel of an emergency		O	O	O	O	O	O	O	O	O	O		X	O	O	O	O	O	O
FR2.2: Allow emergency services personnel to update emergency status		O	O	O	O	O	O	O	O	O	O		O	X	O	O	O	O	O
FR3: Interact with subscribers		O	O	O	O	O	O	O	O	O	O	O	O	O	X				
FR3.1: Notify subscribers of an emergency		O	O	O	O	O	O	O	O	O	O	O	O	O		X	O	O	O
FR3.2: Allow subscribers to set preferences		O	O	O	O	O	O	O	O	O	O	O	O	O		O	X		
FR3.2.1: Provide location setting		O	O	O	X	O	O	O	O	O	O	O	O	O		O		X	O
FR3.2.2: Provide emergency type setting		O	O	O	X	O	O	O	O	O	O	O	O	O		O		O	X