

A CONDITION-BASED MESSAGING SYSTEM

SCHEDULE

- Project proposal
- System Overview
- **×** Demonstration

- × con·di·tion
- * [kuhn-dish-uhn]
- * Noun
- * 1.a particular mode of being of a person or thing; existing state; situation with respect to circumstances.
- 2.state of health: He was reported to be in critical cond ition.
- 3.fit or requisite state: to be out of condition; to be in n o condition to run.
- *** 4.**social position: *in a lowly condition.*
- * 5.a restricting, limiting, or modifying circumstance: *It* can happen only under certain conditions.

CURRENT POPULAR MESSAGING SYSTEM

- Whatsapp
- * Wechat
- * Line
- **×**

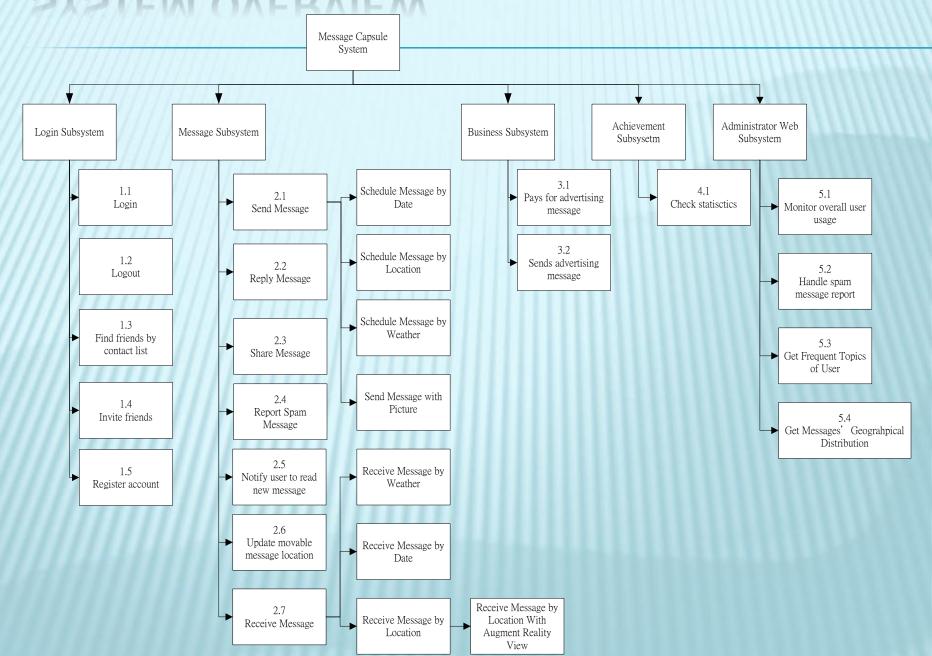
- * Excellent IM
- * Nice and fancy interface, icons.



BUT.....

- What's the difference between them and older messaging system? (Like the dead MSN?)
- * Not much
- The functionalities of mobile devices are not fully unleashed by these apps
 - + e.g functions base on
 - + Location estimation
 - + Weather
 - + Date
 - + And other available sensors.....

SYSTEM OVERVIEW



FEATURES

- Instant message
- Messages with conditions like time, location, weather and their mixs, etc.
 - + Support more real world scenarios.
- Administrator web subsystem
 - + For administration and data analysis

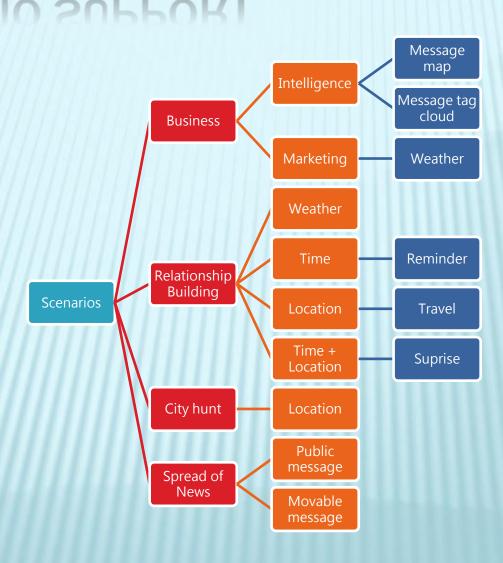
SOFTWARE TOOLS USED

	Software/Technology Name	Description	Home Link
Backend	Java EE	The backend sever	
	Tomcat	The JAVE EE server container	
	Postgresql	The DBMS being used	http://www.postgresq
	HHHHHHH		<u>l.org</u>
	Postgis	The plug-in to enable spatial data storage in DBMS	http://postgis.refracti
			ons.net
Frontend	Android	Serve the client in mobile	
	JSP	Serve the client in web	
Development Tools	Eclipse	The IDE for development in server and client-side	
		//////////////////////////////////////	1 11111111111
Services and Libraries and	Openstreet Map API	The API for location finding	http://wiki.openstreet
Other Resources Usage			map.org/wiki/Nomin
			atim
	Open weather Map API	The API for weather finding	http://openweath
			ermap.org/
	Google Cloud Messaging	The library for data synchronization	http://developer.andr
			oid.com/google/gcm/
	,,,,,,,,,,,,,,,		index.html
	Basic HTTP Client	The library for data exchange	http://code.google.co
		111111111111111111111111	m/p/basic-http-
	7111111111111		client/
	Google Map API	The API for map showing	https://developers.go
			ogle.com/maps/

Bootstrap	The template for web user interface	http://twitter.github.c
<i>(1911)</i>		om/bootstrap/
Wikitude	Augmented Reality SDK	http://www.wikitude.
		<u>com</u>
Iconfinder	An icon finder	http://www.iconfinde
		r.com
Foundation	The Front-end framework for web user interface	http://foundation.zur
///////////////////////////////////////		b.com
Leaflet	Javascript Library for mobile-friendly interactive maps	http://leafletjs.com
Android SDK	The SDK for android apps development	11111111111
Sample code to sense phone	Use for sending movable message	Chapter 4 -
acceleration speed and	///////////////////////////////////////	Interacting with
direction		Device Hardware
	. / / / / / / / / / / / / / / / / / / /	and Media
	A/////////////////////////////////////	Android Recipes: A
		Problem-Solution
		Approach
	1//////////////////////////////////////	by Jeff Friesen and
	///////////////////////////////////////	Dave Smith
		Friends of Ed ©
		2011 Citation

DEMONSTRATION

SCENARIO SUPPORT



INSTANT MESSAGE

* Scenario: send a message just to say hi



TIME

* Scenario: send a message as reminder



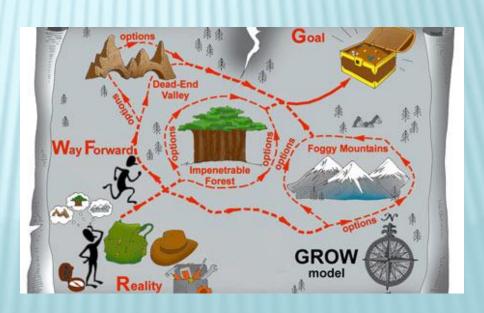
LOCATION

Scenario: mine a message in tourist attraction

LOCATION

* Scenario: treasure hunt





TIME + LOCATION

- * Scenario:
- mine a message in a location, notify the receiver early on, tell him/her to go there in time

WEATHER

Scenario: When It's rainy, tell her to bring umbrella.

* Weather condition: rain

WEATHER AND PUBLIC MESSAGE

* Scenario:

* When it's hot, tell customer to come and

eat ice cream

* Temperature



MOVABLE MESSAGES

* Scenario:



ADMIN WEB SUBSYSTEM

- * Administration
- Data analysis

IMPROVEMENT

- * More customization
- * More functions cater for business users
 - + Promotion
 - + news
- **×** Better UI
- * More stable
- More conditions
- Integrate with Facebook