

Smart Phone Applications

for people with brain injury

The Project

The *project Implementing and evaluating Smart Phone Applications technology across the NSW Brain Injury Rehabilitation Program (BIRP)* aims to:

Provide web-based resources for clinicians

Evaluate the efficacy of Smart Phone Apps for people with brain injury.

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This document:

[A3_Overview_of_Smartphones_specifications_V1_09Aug11.pdf](#)

Is a spreadsheet comparing Smartphones currently available by different providers. It specifies variabilities such as operating systems, processing speed, resolution, storage capacity, camera, battery, price and modification options for handsets developed by Apple, HTC, Motorola, Nokia, Windows and Blackberry.

It is available from: www.TBIStaffTraining.info

More Project information and further documents:

www.TBIStaffTraining.info

	Apple i-phone	Droid X	Windows	Nokia	Blackberry
Operating System	iPhone OS	Android	Windows 7 OS	Symbian OS	Blackberry OS
Brief description	e.g. I-phone 4 and I-pad	e.g. HTC Hero and Samsung Vibrant, motorola Developed by Google Combination of business, social and entertainment apps	e.g. windows 7 phone predominantly business apps	e.g. Nokia E71, Nokia N900 Limited range of apps across entertainment, organization and social networking options	e.g. blackberry torch, blackberry Gemini Good range of business, with some social networking options but limited entertainment apps
Processing Speed	1GHz processor	1GHz processor	1GHz processor	680MHz	Unspecified
Display & Resolution	3.5-inch screen 640x960 pixels better resolution i.e. good for better image smaller and lighter phone	4.3-inch screen poorer resolution larger and heavier phone	Samsung Galaxy: <ul style="list-style-type: none"> • 4.0-inch screen • 4.6 grams • 480x800 pixels LG Quantum <ul style="list-style-type: none"> • 3.5 inch screen • 6.21 ounces • 320 x 480 pixels HTC <ul style="list-style-type: none"> • 3.8-inch screen • 5.8 ounces 	<ul style="list-style-type: none"> • 3.5-inch screen • 4.76 ounces • 640x360 pixels 	<ul style="list-style-type: none"> • 3.2-inch screen • 5.68 ounces • 480x360 pixels

	Apple i-phone	Droid X	Windows	Nokia	Blackberry
			<ul style="list-style-type: none"> • 480x640 pixels Motorola <ul style="list-style-type: none"> • 3.2 inch screen • 142.5 grams • 854 x 480 pixels 		
Storage	16GB and 32GB	40GB (using additional microSD card)	Samsung Galaxy: <ul style="list-style-type: none"> • 32 GB (using additional microSD card) LG Quantum <ul style="list-style-type: none"> • 16 GB HTC <ul style="list-style-type: none"> • 16 GB Motorola <ul style="list-style-type: none"> • 3 GB (using additional microSD card) 	32GB (using additional microSD card)	32GB (using additional microSD card)
Camera & Multimedia	5MP camera, LED flash for taking pictures in low-light conditions,	8MP camera LED flash for taking pictures in low-light conditions	Samsung Galaxy: <ul style="list-style-type: none"> • 5 MP camera • 720 HD recording 	12MP camera 720 HD recording	5MP camera 720 HD recording

	Apple i-phone	Droid X	Windows	Nokia	Blackberry
	record 720p HD video front-facing video camera for video calls iMovie for iPhone mobile video editor	record 720p video	LG Quantum <ul style="list-style-type: none"> • 5 MP camera • 720 HD recording HTC <ul style="list-style-type: none"> • 5 MP camera • 720 HD recording Motorola <ul style="list-style-type: none"> • 5 MP camera • 720 HD recording 		
Connectivity	Wi-Fi, GPS, and Bluetooth	Wi-Fi, GPS, and Bluetooth Able to connect to mobile hotspots (\$20)	Wi-Fi, GPS, and Bluetooth	Wi-Fi, GPS, and Bluetooth	Wi-Fi, GPS, and Bluetooth
Battery Life	Up to 420 minutes	Up to 480 minutes	Up to 390 minutes	Up to 300 minutes	Up to 330 minutes
Price	\$859 up front cost	\$895 up front cost	Samsung Focus \$499	\$749 up-front	\$649 up front
Impairment compensations	- Voice recognition - hands free speaker phone - pogo stylus	- ShoutOUT Speech to Text (send texts hands free)	- voice recognition	- nokia loopset (built in microphone to transmit sounds directly to the	- text to speech reading device - relay service for people with hearing

	Apple i-phone	Droid X	Windows	Nokia	Blackberry
	<ul style="list-style-type: none"> - tactile buttons - braille - zoom - TTY - Chatter blocker - sound-amp - vibration alert 	<ul style="list-style-type: none"> - Audio-books (reads books aloud – vision impairment) - SoundBack (links sound to menu item) - screen reader - compatible with hearing aids - IDEAL Item ID: Bar Code Reader (scans and reads barcode aloud helps people with vision impairment) - ideal webreader (text to speech translation) 		<ul style="list-style-type: none"> person’s hearing aid) - tactile aids (vibration alert) - braille note taker - text to speech reading device - speaker phone - adjustable font 	<ul style="list-style-type: none"> impairment - tactile keys - adjustable font size - voice recognition - speaker phone

	Apple i-phone	Droid X	Windows	Nokia	Blackberry
Protective Options	Protective Case http://store.apple.com/au/product/H3346PA/A	Protective Case http://store.androidcommunity.com/content/accessories/4-133.htm	Protective Case http://www.windowophone7cases.net/	Protective Case http://www.nokia.com.au/find-products/accessories/carrying-cases-and-style	Protective Case http://blackberrystore.com.au/protect-it-home.html
Number of Apps available	425,000	200,000	25,000	40,000	37,000

For more information please refer to these websites for further analysis on individual handsets:

http://www.readwriteweb.com/archives/the_state_of_the_smartphone_iphone_is_way_way_ahea.php

<http://hubpages.com/hub/unlocked-smartphone>

http://www.pcworld.com/article/199729/droid_x_vs_iphone_4_spec_smackdown.html

<http://www.nokia.com.au>

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