行動醫療與環境感知-功能清單

```
"prenatal care": "Y",
   "doctor name": "陳○華",
   "current no": 1,
   "location code": "10",
   " status": "success",
   "_status_doc": "REG"
*** 請檢查 prenatal care = 'Y' 則應出現, "請您先到
衛教室報到"之訊息。
*** 會有多種資料格式, 請檢查回覆訊息中
" status": "success" 表示需求請求成功
" status doc": 返回
    "REG" 表示為掛號資料
    "PRE DEPT SCHEDULE" 表示為衛教室資料
    "DEPT SCHEDULE" 表示為科室資料
"_status": "error" 表示需求處理錯誤, 畫面中需顯示
_status_doc 值,例
"_status_doc": "未發現預約掛號記錄 !!",
case 4-1: Beacon 位於衛教室, 且需產檢則返回訊息(json)
   "location code": "20",
   "pt name":"王小敏",
   "view date": "1050518",
   "current num": 13,
   "location name": "衛教室",
   "_status_doc": "PRE_DEPT_SCHEDULE",
   " status": "success",
   "apn": 1,
   "total num": 16,
   "chart no": "106733",
   "duplicate_no": 0
*** 請組合成訊息:
```

```
目前衛教室排隊總人數: (total num), 目前己服務至:
(current num), 是否報到並加入排隊
case 4-2: Beacon 位於衛教室, 但無產檢 flag 返回錯誤訊
   " status": "error",
   " status doc": "未發現產檢記錄 !!"
case 5-1: Beacon 位於檢驗科, 且患者有開立檢驗單, 返回訊
息(json)
   "req no": "1050518LA0006",
   "req datetime": "1050518230723",
   "inp_opd": "0",
   "form no": "LA",
   "chart no": 106733,
    "pt_name":"王小敏",
   "serno": 0,
   "order_date": "1050518",
   "processed": "N",
   "exam_type": null,
   "view date": "1050518",
   "duplicate_no": 0,
   "apn": 1,
   "location code": "31".
   "location name": "檢驗科",
   " status": "success",
   "total num": 13,
   "current num": 10,
   "_status_doc": "DEPT_SCHEDULE"
*** 請組合成訊息:
目前檢驗科排隊總人數: 13(total_num), 目前己服務至:
```

```
10(current num), 是否報到並加入排隊
                case 5-2: Beacon 位於檢驗科, 但患者無檢驗單, 返回訊息
                (ison)
                [{"_status":"error","_status_doc":"未發現檢驗申請單
                記錄!!"}]
                Case6: X 光室, 均與 Case5 相同
                但 "location code": "32",
按 [報到]或「報
                ***呼叫: /rest/receiver_beacon/set
                                                                5/15
                                                                     V掛號
到並加入排隊] 按
                Method: [POST]
                                                                      V 衛教室
                Body : [application/json]
鈕
                                                                      Ⅴ 科室
                Case 3: 門口或掛號室, 預約掛號報到(_status_doc =
                 "REG")
                ==== REG ======掛號記錄
                (原 GET 所得資料再用 POST 傳回)
                  {
                    "view date": "1050515",
                    "chart no": 106733,
                    "duplicate no": 0,
                    "apn": 1,
                    "clinic": 1,
                    "doctor_no": "D01",
                    "view_no": 25,
                    "reg clerk": "test",
                    "reg_time": "2016-05-15T17:05:58",
                    "prenatal_care": "Y",
                    "doctor name": "陳○華",
                    "current no": 1,
                    "location code": "10",
                    " status": "success",
                    "_status_doc": "REG"
                ***回傳:請檢查 prenatal care 欄位如為 'Y' 則提醒病
                人: "請先至衛教室接受檢查"
```

```
成功:
   "_status": "success",
   "view_no": 25,
   "_status_doc": "報到成功!!",
   "except_view_time": "1005",
   "card seq": "41"
失敗時訊息範例:
   "_status_doc": "找不到門診記錄 !!",
   "_status": "error"
case 4-1: Beacon 於衛教室,報到並加入排隊
傳入: 之前收到之 Json 資料
   "_status_doc": "PRE_DEPT_SCHEDULE",
   "_status": "success",
   "location_name": "衛教室",
   "location code": "20",
   "total num": 16,
   "current_num": 13,
   "apn": 1,
   "view_date": "1050518",
   "duplicate_no": 0,
   "chart no": "106733"
傳回:排隊清單(16之前後三個)
   "location_code": "20",
   "view_date": "1050516",
```

```
"seq no": 13,
"chart no": 17229,
"pt_name": "廖 X 華",
"eff_flag": "Y",
"_status": "success",
" status doc": "PRE DEPT SCHEDULE"
"location_code": "20",
"view date": "1050516",
"seq no": 14,
"chart no": 77734,
"pt_name": "李 X 枝",
"eff flag": "Y",
"_status": "success",
"_status_doc": "PRE_DEPT_SCHEDULE"
"location code": "20",
"view date": "1050516",
"seg no": 15,
"chart no": 43940,
"pt name": "郭 X 翠",
"eff_flag": "Y",
"_status": "success",
"_status_doc": "PRE_DEPT_SCHEDULE"
"location code": "20",
"view_date": "1050516",
"seg no": 16,
"chart no": 106733,
"pt_name": "王小敏",
"eff flag": "Y",
" status": "success",
"_status_doc": "PRE_DEPT_SCHEDULE"
```

```
case 5-1: Beacon 於檢驗科,報到並加入排隊
                      傳入: 之前收到之 Json 資料, 相同於 case 4-1
                      傳回: 相同於 case 4-1
                          "location code": "31",
                          "view date": "1050518",
                          "seq no": 10,
                          "chart no": 53204,
                          "pt name": "張 X 禎",
                          "eff flag": "Y",
                          " status": "success",
                          "_status_doc": "DEPT_SCHEDULE"
                        },
                        (省略)
                          "location code": "31",
                          "view_date": "1050518",
                          "seq no": 13,
                          "chart no": 106733,
                          "pt_name": "王小敏",
                          "eff_flag": "Y",
                          " status": "success",
                          "_status_doc": "DEPT_SCHEDULE"
                      case 5-2: Beacon 於檢驗科,報到並加入排隊,患者未開立
                      檢驗申請單
                          "_status_doc": "未發現 檢驗申請單 記錄 !!",
                          " status": "error"
010
     傳回 Beacon 位置說
                      Web Server 內部功能
                                                                        X
                                                                             X
                      ***呼叫: /rest/create_beacon/
     建立 Beacon 資料
                                                                        5/12
015
                                                                             資料維
                      Method: [POST]
                                                                             護用
```

```
Body : [application/json]
                         {
                             "uuid": "AP.....Ge",
                             "major":888,
                             "minor":008,
                             "location code":"10",
                             "eff flag ": "Y"
                     ***回傳: 更新後之 object ( json), http status=201
                         {
                             "id" : 10,
                             "uuid": "AP.....Ge",
                             "major":888,
                             "minor":008,
                             "location code": "10",
                             "eff flag ": "Y"
                     ]
                      ***說明:
                       location_code = "10": 掛號室(醫院門口)
                                    "20": 衛教室
                                    "31": 檢驗科
017
     檢查 Beacon 觸發係
                     Web Server 內部功能(def checkRecord)
                                                                      5/19
     件
                      以當日時段為條件與Location code:
                                                                      改
                      10. 檢查是有預約記錄.
                      20. 檢查是否為產檢病人
                      31. 檢查是否有檢驗單據
                      32. 檢查是否有 X 光單據
                      Web Server 內部功能(def process_reg)
                                                                      5/15
020
     預約掛號功能
025
     預約報到功能
                      Web Server 內部功能 (def update_reg)
                                                                      5/15
030
     衛教室查詢功能
                                                                      5/16
                      Web Server 內部功能(def process_pre_dept)
035
     衛教室報到排隊功
                      Web Server 內部功能(def update pre dept)
                                                                      5/16
     能
```

040	檢驗科查詢功能 (含 X 光科室報到 排隊)	Web Server 內部功能(def process_dept)	5/14	
045	檢驗科報到排隊功 能(含 X 光科室報 到排隊)	Web Server 內部功能(def update_dept)	5/14	
050	批價處功能 (未來結合線上支 付)	X(暫不包括)	X	X
060	詢問處功能清單 (MenuHelp)	X(暫不包括)	X	X
070	取得衛教室排隊清單	/rest/getDeptList/get?location_code=20&chart_no=病歷 號 Method : GET 例如 ***呼叫: /rest/getDeptList/get?location_code=20&chart_no=1067 33 ***回傳: [5/18	

```
"eff_flag": "Y",
  "mark": "",
  "_status": "success",
  "_status_doc": "PRE_DEPT_SCHEDULE"
  (省略)
  "location code": "20",
  "view_date": "1050518",
  "seq no": 13,
  "chart no": 82114,
  "pt_name": "蔡 X 憶",
  "eff flag": "Y",
  "mark": "C",
  "_status": "success",
  "_status_doc": "PRE_DEPT_SCHEDULE"
},
    (省略)
  "location_code": "20",
  "view_date": "1050518",
  "seq no": 15,
  "chart_no": 22209,
  "pt_name": "陳 X",
  "eff_flag": "Y",
  "mark": "",
  "_status": "success",
  "_status_doc": "PRE_DEPT_SCHEDULE"
  "location code": "20",
  "view_date": "1050518",
  "seg no": 16,
  "chart_no": 106733,
  "pt_name": "王小敏",
  "eff flag": "Y",
  "mark": "*",
```

		_status": "success",		
		" status doc": "PRE DEPT SCHEDULE"		
		}		
		*** 說明		
		mark = "C" 表示目前服務號		
		mark = "*" 表示為目前患者		
080	Call 專人服務	X(暫不包括)	X	X
090	排隊回 call 服務	由系統主動通知(由流程網頁模擬, Web 功能)	5/23	
		Case 1: 診間看診, 到號通知.		
		Case 2: 衛教室排隊, 到號通知.		
		Case 3: 檢驗科排隊, 到號通知.		
		Case 4: X光排隊,到號通知.		
		系統檢查點 : 診間/科室目前服務序號改變時.		
		例如 內科一診, 診間修改目前看診號後觸發, 系統即檢查下		
		一個患者, 並發出訊息通知下一個患者		
100	科室報排隊狀況查	/rest/getDeptList/get?location_code=位置&chart_no=病	5/18	
	詢	歷號		
		Method: GET		
		同 070-取得衛教室排隊清單		
		位置: 20 衛教室 / 31 檢驗科 / 32 X 光室		
102	取得目前診間看診	/rest/getClinicNo/get?clinic_no=診間號	6/26	
	號	Method: GET, 回傳結果例:		
		{		
		"location_code": "10",		
		"clinic_no": 1,		
		"current_no": 20,		
		"clinic_ps": "婦產科一診"		
		}		
104	取得該患者今日預	/rest/getTodayReg/get?chart_no=病歷號	6/27	
	約掛號資料	Method: GET, 回傳結果例:		
		L		
		{		
		"view_date": "1050627",		
		"chart_no": 106733,		
		"duplicate_no": 0,		

```
"apn": 1,
                               "clinic": 1,
                               "doctor_no": "D01",
                               "view no": 25,
                               "reg clerk": "test",
                               "reg time": "2016-06-27T23:40:51",
                               "prenatal care": "Y",
                               "clinic_ps": "婦產科一診",
                               "doctor name": "陳○華",
                               "pt name": "王小敏",
                               "current no": 1,
                               "location code": "10",
                               "_status": "success",
                               " status doc": "REG"
     取得患者就醫記錄
                       /procpatient/getlist?chart no=病歷號
                                                                           5/20
110
                       例如:
                       http://
                       163.18.22.69/procpatient/getlist?chart no=106733
120
     取得患者該次用藥
                       Web Page 內部功能
                                                                           5/20
     記錄
     取得衛教清單
                       Web Page, 由 android 開啟網頁
                                                                           5/21
130
                       /geteducation/
                       http://163.18.22.69/geteducation/
140
     衛教單線上預覽
                       Web Page
                                                                           5/22
150
     註冊患者行動裝置
                       ***呼叫
                                                                           5/4
                       /rest/device register/
                       Method: [POST]
                       Body : [application/json]
                           {
                               "id no": "A123456789",
                               "registration id": "AP.....Ge",
                               "eff flag": "Y"
```

		***回傳: 更新後之 object (json)		
160	取得該病歷號之所	"chart_no":106733, "id_no": A123456789", "birth_date": 0850506", "registration_id": AP···Ge", "register_datetime": 2016-05-03T00:15:22.863980", "eff_flag": " Y", "pt_name": "王小敏" } *** 注意事項: 1. 系統安裝完畢,在使用之前需先 call 此 web service. 2. 傳入 ID_NO 而 Web service 會回傳該患者之病歷號 /ID_NO/BIRTH_DATE 3. 這些資訊需記錄在手機端 sqlite 中. ***呼叫	5/1	Debug
160	取得該病歷號之所有有效之設備	***呼叫 /rest/device_register/registerdevice?chart_no=106733	5/1	Debug 用
		Method: [GET]		
		***回傳 json 格式內容, 可能多筆		
		[{"chart_no":106733,"id_no":"A123456789","birth_date		
		":"0850506","registration_id":"APA91bEJ0QznACdSj0LAE2 oGaPiaBAq2GZ59MK6UWaDWZWI8H0SIlw3amuVQpnuRgqoXugtklg		
		bV1DCFNOEBunmUxqv6SLC8VGkgBDZ0B04f80EUc205UpH8Qhy156		
		snEdJaKN_443Ge","register_datetime":"2016-05-02T12:47		
		:18","eff_flag":"Y"},{"chart_no":106733,"id_no":"A1234		
		56789","birth_date":"0850506","registration_id":"APA9		
		1bHgtTn1P9EHOqjs_hKKAUMnLTrE9UFZ91nByt1TXRW4brqrIn_		
		563S5cw6JrOSb8N2x5_t-Yr6PnJCpaagQkEV-qP8LOfqrqH-Bkv1vDAlMcAB50RIowWj2spuykNgGTcMaiBw","register_datetime"		
		:"2016-05-02T12:50:28","eff_flag":"Y"}]		
170	取得物件之資料內	***呼叫	5/1	Debug
	容	/rest/get_object/物件名稱?條件欄位名稱1=條件值1&條件		用
		欄位名稱 2=條件值 2		
		Method: [GET] 例如:取得 [病歷號]為 106733 號的病人		
		/rest/get_object/chart?chart_no=106733		

				1
		-物件名稱 : 可為 chart / area / registerdevice /		
		-條件欄位名稱必須為欄位名稱,不知有那些欄位時可以不加		
		條件查詢		
		***回傳		
		[{ "chart_no": 106733, "pt_name": "王小明",		
		"id_no": "A123456789", "birth_date": "0850506",		
		"sex": "1" }]		
180	測試 GCM	/gcm_test/病歷號?message=訊息內容	5/1	Debug
		Method: [GET]		用
		可發出訊息給該病歷號病人所有行動設備		
190	删除物件	/rest/del_object/物件名稱?欄位1=欄位值1&欄位2=欄位	5/1	Debug
		值2 來刪除物件		用
		Method: [DELETE]		
		• 數值或字串均不需加 ′′		
		• 例如		
		/rest/del_object/patient_status?chart_no=10673		
		3&view date=1050512		
		- 目前開放可删除物件		
		o patient status : 病人狀態記錄表		
200	玩 但 殿 缶 叨 U	http://169109960/atatio/doctor images/服在心路:	5/29	
400	取得醫師照片	http://163.18.22.69/static/doctor_images/醫師代號.jpeg	0/49	
		例如,醫師代號為 D01		
		http://163.18.22.69/static/doctor_images/D01.jpeg		

*** 功能主要是在環境感知部份,未含所有醫療功能.

*** 應用情競:

患者身份識別: 作業程序所需之認證

位置識別:依位置(定位)取得服務類型及內容,如 報到 / 排隊 / ...

沓料取得·

*** HTTP Method:會用到

GET - 依條件取得資料.

POST - 新增資料.

PUT - 修改資料.

DELETE - 刪除 或 取消資料

*** HTTP Status Code: 會用到

200 - 確定, 處理要求成功. (通常用於 get 取得資料成功或 delete)

201 - 資料建立成功.(通常用於 post/put 資料建立)

- 400- 錯誤的請求
- 404 找不到網頁或服務
- 500 伺服器錯誤
- *** 其他應用:會議/簽到/門禁/巡檢/人或物品追蹤環境偵測/範圍限制/跌倒偵測/線上求助
- *** 測試應建立資料:
- 1. REG (CDATE / APN / CLINIC_NO / VIEW_NO / 106733)
- 2. PATOPD(EXPECT_VIEW_TIME 預計看診時間/ CDATE / APN / CLINIC_NO / VIEW_NO / CARD_SEQ 檢查是否產檢)
- 3. Patient_status 控制 beacon 不再觸發 (應清除記錄)
- 4. delete from patopd where chart no = 106733
- 5. delete from opdacnt where chart_no = 106733

INSERT OPDACNT select * from bOPDACNT

6. PATOPD and OPDACNT 由 chart_no = 12066 -> 106733
create table bPATOPD LIKE PATOPD
insert bPATOPD select * from PATOPD where CHART_NO = 12066
create table bOPDACNT LIKE OPDACNT
insert bOPDACNT select * from OPDACNT where CHART_NO = 12066
修改 CHART_NO 成 106733
修改 ID (Two Table)
INSERT PATOPD select * from bPATOPD