**HIS INTERGRATION FOR PATIENT MOBILE APPLICATION**

1. **THE PURPOSE OF INTEGRATION:**

* To provide the information to patient via mobile application
* To improve the patient experience.

1. **REPORT SCHEMA:**
   1. **PERIOD TIME TRANSMISSION DATA: 1-way synchronization data (From HIS to Mobile app ONLY)**

**SYNCHRONIZE DATA BY 2AM GMT+7**

|  |  |
| --- | --- |
| **INFORMATION** | **STATUS IN REPORT SCHEMA** |
| Patient PRN & Patient NOK information | Yes |
| Vaccination history of patient | Yes |
| Patient who purchase vaccine package | Yes |
| Medical report (Doctor Note) | Yes, Need to generate PDF file |
| Vital signs | Not have available data in report schema |
| Revisit check up | Not have available data in report schema |
| Lab report | Yes, Tool auto sync to AWS is ready. |
| Image diagnosis | Wait for HPH IT |
| Radiology result | Yes, Need to generate PDF file |
| Patient RX | Yes, screen app |
| Patient Bill | Yes, screen app |

* 1. **Header information: ALWAYS IN THE HEADER OF DOCUMENT of PDF FILE**

**Table use: NOVA\_PATIENT, NOVA\_VISIT, NOVA\_PATIENT\_RX**

|  |  |  |
| --- | --- | --- |
| Information | Table | Columns |
| Patient name | Patient | PRN, PATIENT\_NAME, TITLE, |
| PRN | Patient | PRN |
| Account No: (This is visit number: Each of time visit hospital, system create one account no.) | Patient & Visit | PRN, ACCOUNT\_NO |
| Sex | Patient | GENDER |
| Age | Patient | DOB |
| Attending Doctor | Patient\_Rx | ACCOUNT\_NO, DOCTOR\_NAME |
| Reg\_ Date | Visit | REGISTRATION\_DATE, REGISTRATION\_TIME |
| VISIT TYPE | Visit | VISIT\_TYPE |
| TYPE OF DOCUMENT:  MEDICAL REPORT – BỆNH ÁN  LAB REPORT – KẾT QUẢ XÉT NGHIỆM/ CHUẨN ĐOÁN HÌNH ẢNH  PRESCRIPTION – TOA THUỐC  INVOICE – HÓA ĐƠN |  | Note: DEPENDING ON EACH OF DOCUMENT, THE TITLE OF DOCUMENT IN THE HEADER WILL BE CHANGED ACCORDINGLY |

1. **DOCUMENT/ GENERATING PDF/ SCREEN APP**
   1. **PRN NUMBER AND RELATED PRN NUMBER: (MAPPING BETWEEN NOVA\_PATIENT AND NOVA\_PATIENT\_NOK)**

**Table use: NOVA\_PATIENT, NOVA\_PATIENT\_NOK**

|  |  |  |  |
| --- | --- | --- | --- |
| Information | Table | Columns | Mapping to Other Table / Columns |
| Patient name | Patient | PRN, PATIENT\_NAME, TITLE, |  |
| PRN | Patient | PRN | Table: Patient\_NOK  Column: PATIENT\_PRN |
| NOK\_ID (PRN OF RELATIVES: FORMAT: P-00022009 WITH P MEANS VIRTUAL PRN.) | PATIENT\_NOK | NOK\_ID |  |
| RELATION DESCRIPTION | PATIENT\_NOK | RELATION\_DESCRIPTION |  |
| PRN (PRN OF RELATIVES) | PATIENT\_NOK | PRN |  |
| NAME OF RELATIVES | PATIENT\_NOK | PATIENT\_NOK\_NAME |  |
| GENDER OF RELATIVES | PATIENT\_NOK | GENDER |  |
| MARITAL STATUS OF RELATIVES | PATIENT\_NOK | MARITAL\_STATUS |  |
| DOB OF RELATIVES | PATIENT\_NOK | DOB |  |
| NATIONALITY OF RELATIVES | PATIENT\_NOK | NATIONALITY |  |
| HOME PHONE OF RELATIVES | PATIENT\_NOK | HOME\_PHONE |  |
| HOME ADDRESS OF RELATIVES | PATIENT\_NOK | HOME\_ADDRESS |  |

**NOTE: ONLY RELATIVES HAS PRN CAN BOOK APPOINTMENT. IF RELATIVES HAS VIRTUAL PRN, CANNOT BOOK APPOINTMENT.**

* 1. **VITAL SIGNS**

*Wait for hospital*

* 1. **VACCINATION:**
* Patient who purchased the vaccination package: table: NOVA\_SERVICE

|  |  |  |
| --- | --- | --- |
| Information | Table | Columns |
| PRN | NOVA\_SERVICE | PRN |
| Vaccine package | NOVA\_SERVICE | SERVICE\_CODE (Reference list of Vaccine Package.) |
| Vaccine | Reference list of Vaccine Package Excel file. |  |

* Patient’s vaccination schedule history: table: NOVA\_RX

|  |  |  |
| --- | --- | --- |
| Information | Table | Columns |
| PRN | NOVA\_VISIT | PRN |
| ACCOUNT NO | NOVA\_VISIT | ACCOUNT\_NO |
| EVENT | NOVA\_RX | FILTER: DISPENSE ONLY |
| CODE | NOVA\_RX | CODE.  Base on the list of code mentioned in NOVA\_RX, record which type of vaccine is already vaccinated. |

File list of vaccine package and vaccine in the link: <https://drive.google.com/open?id=1MhDKNFsNWyrDdZMj3bq4rhkVhqukfgRu>

* 1. **MEDICAL REPORT: GENERATE PDF FILE FROM DATABASE**

**Table use: NOVA\_PATIENT, NOVA\_VISIT, NOVA\_VISIT\_SUMMARY**

**Mapping by ACCOUNT\_NO**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **MEDICAL REPORT**   |  |  |  | | --- | --- | --- | | Information | Table | Columns | | Account no | Nova\_Visit\_Summary | ACCOUNT\_NO | | Medical report | Nova\_Visit\_Summary | CATEGORY\_DATA | | Visit Type | Nova\_Visit | Visit Type:  Outpatient  Inpatient |   Note: Filter: “Category” column in NOVA\_VISIT\_SUMMARY table:  Select only: Ch?n ?oán / Diagnosis  The data in CATEGORY\_DATA is format HTML.  Template: Link: <https://drive.google.com/open?id=18X7JDo3u0cIPbX6YmSxUlCD1UI4dXZRt> |

* 1. **PATIENT PRESCRIPTION : SCREEN APP**

**Table use: NOVA\_PATIENT\_RX**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  |  | | --- | --- | --- | | **Information** | **Table** | **Columns** | | Order No: | Patient\_Rx | ORDER\_NO | | RX Ref No: | Patient\_Rx | RX\_REF\_NO | | Event | Patient\_Rx | Filter: Dispense ONLY | | Items Description | Patient\_Rx | DESCRIPTION | | Instruction | Patient\_Rx | EXPANDED\_INSTRUCTION | | UOM | Patient\_Rx | UOM | | Quantity | Patient\_Rx | QUANTITY | | Duration |  |  | | Date and Time | Patient\_Rx | Event Date & time | | Doctor | Patient\_Rx | DOCTOR\_NAME | | Date | Patient\_Rx | EVENT\_DATE |   **Note: Need to base on Account No to get the correct Patient RX for particular visit time.**  **SCREEN APP: IN NEW XD FILE UPDATE** |

* 1. **PATIENT INVOICE: SCREEN APP**

**Table use: NOVA\_BILL, NOVA\_ITEMS**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  |  | | --- | --- | --- | | Information | Table | Columns | | PRN | NOVA\_BILL | PRN | | Note: Filter: BILL\_TYPE | NOVA\_BILL | BILL\_TYPE: Choose: MAIN | | ACCOUNT NO | NOVA\_BILL | ACCOUNT\_NO | | INVOICE NUMBER | NOVA\_BILL | INVOICE\_NO | | BILL DATE | NOVA\_BILL | BILL\_DATE | | BILL NUMBER | NOVA\_BILL | BILL\_NO | | ITEMS | NOVA\_ITEMS | MAPING WITH BILL\_NO | | ITEMS PRICE | NOVA\_ITEMS | FINAL\_AMOUNT | | ITEMS QUANTITY | NOVA\_ITEMS | QUANTITY | | UOM | NOVA\_ITEMS | UOM | | TOTAL AMOUNT | NOVA\_BILL | AMOUNT |   **SCREEN APP: IN NEW XD FILE UPDATE** |

* 1. **IMAGE INVESTIGATION AND LAB TEST**

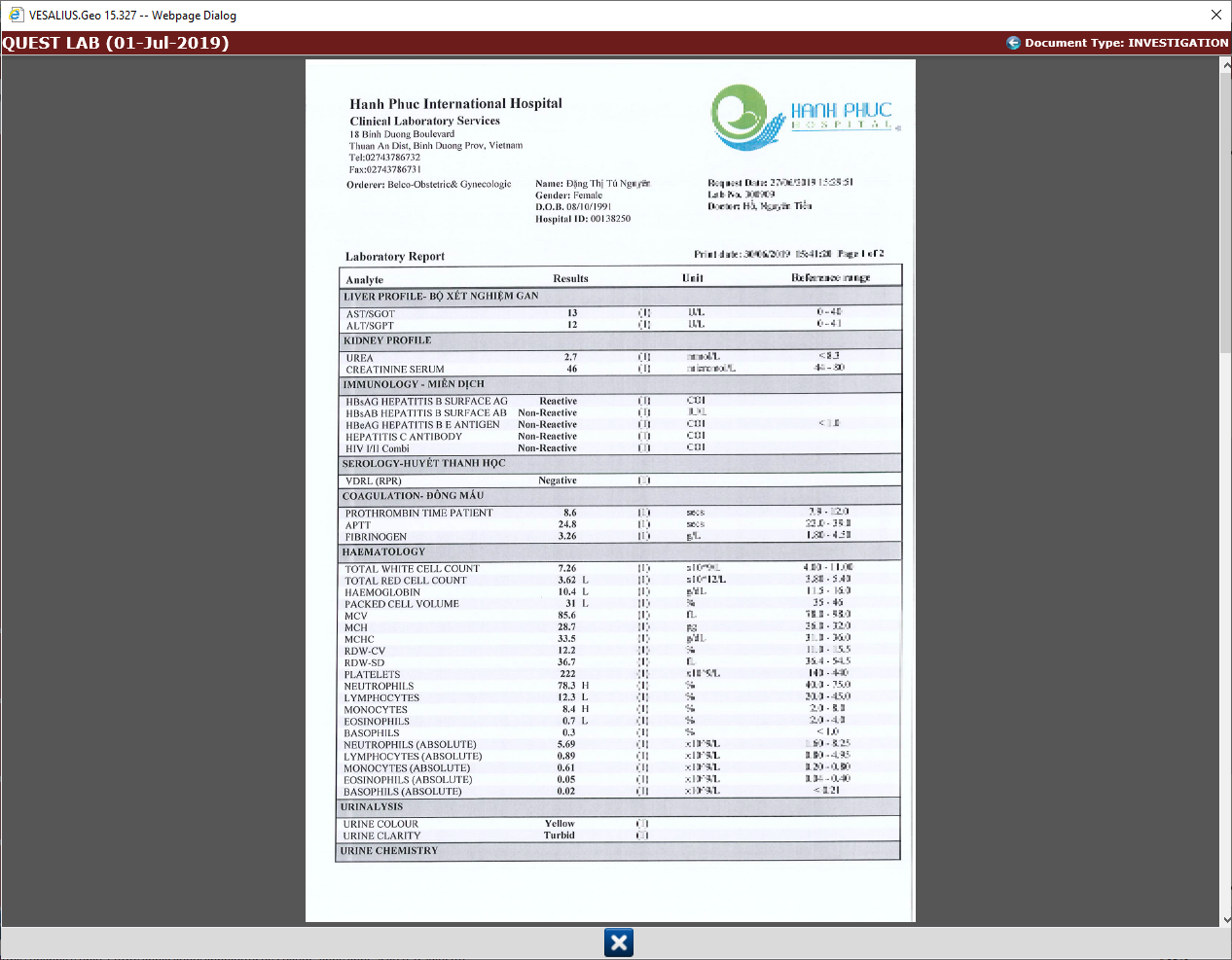
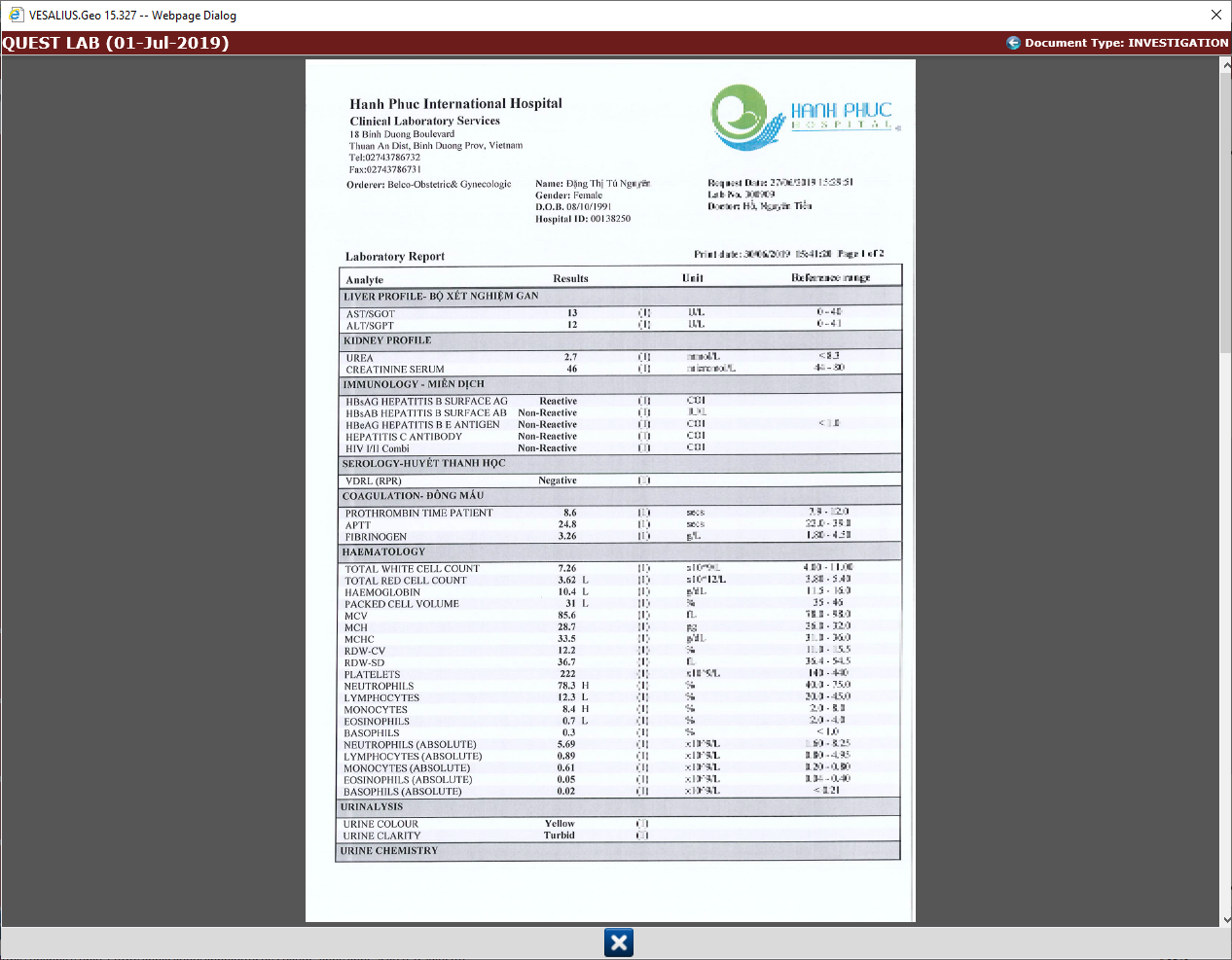
**For lab test: THERE IS TOOL TO AUTO-SYNC LAB REPORT TO AWS SERVER.**

**For Radiology image: THERE IS TOOL TO AUTO-SYNC LAB REPORT TO AWS SERVER.**

**For Radiology result: NEED TO GENERATE PDF FILE, AND AUTO-SYN TO AWS SERVER**

**Table use: NOVA\_PATIENT\_INVESTIGATION & NOVA\_PATIENT\_INVESTIGATION\_DET**

**Picture 15: Lab test**



**Radiology**

**Table use: NOVA\_PATIENT\_INVESTIGATION & NOVA\_PATIENT\_INVESTIGATION\_DET**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  |  | | --- | --- | --- | | Information | Table | Columns | | PRN | NOVA\_VISIT | PRN | | Account No | NOVA\_VISIT | ACCOUNT\_NO | | Report Number | Nova\_Patient\_Investigation | INVESTIGATION\_REF\_NO | | Type of report | Nova\_Patient\_Investigation | INVESTIGATION\_TYPE:  Filter: Radiology Services | | Request date | Nova\_Patient\_Investigation | ORDER\_DATE | | Date | Nova\_Patient\_Investigation | START\_DATE | | Result | Nova\_Patient\_Investigation\_Det | RESULT\_CLOB |   Result in HTML format  Map table: Nova\_Patient\_Investigation with table Nova\_Patient\_Investigation\_Det by INVESTIGATION\_REF\_NO  Template: Link: <https://drive.google.com/open?id=18X7JDo3u0cIPbX6YmSxUlCD1UI4dXZRt> |