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MIS developer doc ❓❓❓❓❓❓❓❓❓

MIS Developer

Feb 01, 2022

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INTRODUCTION



As a malaria program moves towards the elimination phase there is a need to react promptly to every malaria positive case and not wait for information to flow through a routine system. The new malaria information was designed for real-time reporting to address this need and support the move towards malaria elimination in Cambodia. The new system was designed by Malaria National Program (CNM) staff and the system is being implemented in 21 provinces since November 2017, covering 3170 villages that have Village Malaria Workers (VMW) and 816 health centers in Cambodia. All malaria cases reported from Village Malaria Workers and Health Center staff lead to automatic alerts to appropriate district officer (based on the location of the village and health center) to take action in real-time. The technology has been designed to engage the whole malaria control program team from the senior staff of the National Center for Parasitology, Entomology and Malaria Control (CNM) at the central level to the voluntary workers living in the endemic villages around the country. This level of coordination and efficiency is required during the final stages of malaria elimination. For a system to be useful it must be designed in close collab with the users. It must be responsive to the constantly changing requirements of a country in the end stages of malaria elimination where new ideas and initiatives are being delivered frequently. This is why we argue that development in-country is the most appropriate way.

MIS (Malaria Information System) is an web base application was originally developed by CNM.

WHO IS FOR MIS

- Web base application (Recommended Google Chrome)

User	Devices
CNM, PHD, CSO, OD	Computer, Tablet, Smart Phone (Using browser)

- Adroid Application

User	Devices
HF staffs	Tablet (Minimum screen size 10 inch)
VMW	Smart Phone

TECHNOLOGY USAGE

3.1 Development Tools

- Visual Studio 2015
- Microsoft SQL Server Managment Studio
- PHP Tools for Visual Studio (crack)
- Microsoft Drivers for PHP for SQL Server

3.2 Server Requirement

- PHP version 7.2+
- Microsoft SQL Server
- Microsoft windows server 2012

3.3 Server site programming languages

- PHP programming language (v7.2)

3.4 PHP Framework

- Codeigniter 3

3.5 PHP Libraries

- PHP Excel
- RESTful API
- Guzzle http

3.6 Frontend languages

- Javascript
- JQuery
- KnockoutJS
- Loadash
- Highcharts
- Bootstrap version 3
- Momentjs
- Fontawesome
- Datatables
- Pagerjs

3.7 Managing Databases

We use 2 databases

- DB_MIS2 for real data
- DB_MIS2_LOCK for locking data in previous years

3.8 Project Structure

MIS project is follow MVC structure.

3.9 Model view (KnockoutJS - MVVM)

To bind data with UI we use KnockoutJS MVVM structure. All ViewModels file is in \media\ViewModel directory.

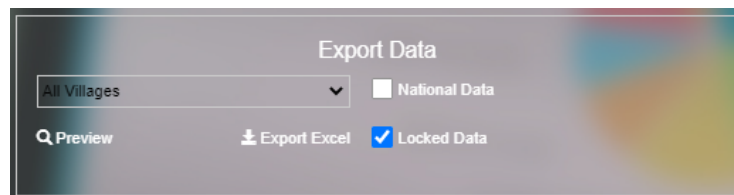
THIRD PARTY

Some task is run by .exe file

4.1 Notification (case)

- Multi thread message purpose we use `\media\Message\MIS Notification.exe`
- Other library: Firebase cloud message.
- Git repository <https://gitlab.com/rattana/mis-notification.git>

4.2 Export Tool (on home page)



- To speed up export data to excel we use `\media\ExportExcel\MISExcel.exe`
- Git repository <https://gitlab.com/mis-projects/mis-excel.git>

4.3 Daily task (cron job)

- Daily task cron job execute `C:\MIS\Task Scheduler\MIS Daily Task.exe` for dashboard data and pivot data. This cron job run by windows task scheduler every day.
- Git repository: <https://gitlab.com/mis-projects/mis-task-scheduler.git>

4.4 Monthly task (cron job)

- Monthly task cron job execute `C:\MIS\Task Scheduler\MIS Monthly Task.exe` for log HF and VMW. This cron job run by windows task scheduler every month.
- Git repository: <https://gitlab.com/mis-projects/mis-task-scheduler.git>

4.5 DB Backup (cron job)

- DB Backup task cron job execute `C:\MIS\Task Scheduler\MIS DB Backup.exe` to run backup data. This cron job run by windows task scheduler every day. Backed up data will store on google drive
- Git repository: <https://gitlab.com/mis-projects/mis-db-backup.git>

CRON JOB

- To run cron job on windows server we need `wget.exe`.
- Click here to [Download](#)

5.1 Setup cron job

1. Install `wget.exe`
2. Go to Task Scheduler
3. Right click on task area then click on Create New Task
4. Click on Actions
5. Click on New...
6. Click on Browse... > go to `wget.exe` (directory that installed `wget.exe`) > click on Open
7. In textbox Add arguments (optional): fill in URL of task, e.g: `/cron/notifyVMWFU/Day3`

5.2 List of cron job

5.2.1 VMW follow up patient notification (Pv radical cure)

- Purpose: Send message notification to VMW's smart phone about date of follow up.
- Type: run everyday.
- URL `/cron/notifyVMWFU/parameter`
- parameter (string) `-Day3 / Day7 / Day14`.

5.2.2 HC follow up patient notification (Pv radical cure)

- Purpose: Send message notification to HC' s tablet about follow up.
- Type: run everyday.
- URL `/cron/notifyHFFU/parameter`
- parameter (string) –Day3 / Day7 / Day14.

5.2.3 Foci reminder notification

- Purpose: send message notification to VMW, HC, OD, PHD, CSO.
- Type: run everyday.
- URL `/cron/remindFoci`

Note: if malaria case that not yet do foci investigation in during 5 days, system will produce notification.

5.2.4 Reactive case reminder notification

- Purpose: send message notification to HC and VMW.
- Type: run everyday.
- URL `/cron/remindReactive`

Note: if malaria case that not yet do reactive case in during 3 days, system will produce notification.

5.2.5 Hight risk village reminder notification

- Purpose: send message notification to HC, OD, PHP, CSO.
- Type: run every.
- URL `/cron/remindHighRiskVillage`

Note:

- Retrieve positive last 12 months.
 - Retrieve positive last month.
 - Calculate STD, AVG.
 - If Positive last month > STD + AVG => High risk.
-

5.2.6 Stock out notification

- Purpose: send message notification to OD, PHP, CSO
- Type: run everyday.
- URL `/cron/notifyNonStock`

6.1 Use case diagram

6.1.1 Use case malaria & ITN data

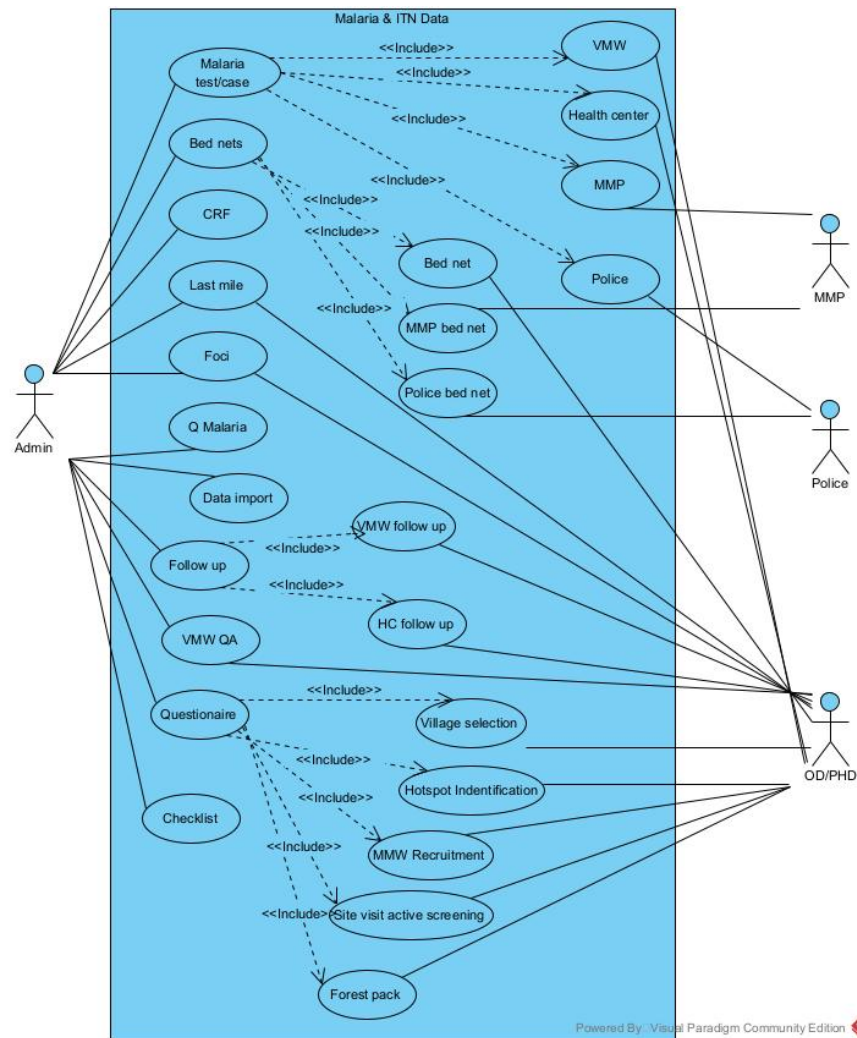


Fig. 1: Use case for malaria & ITN data

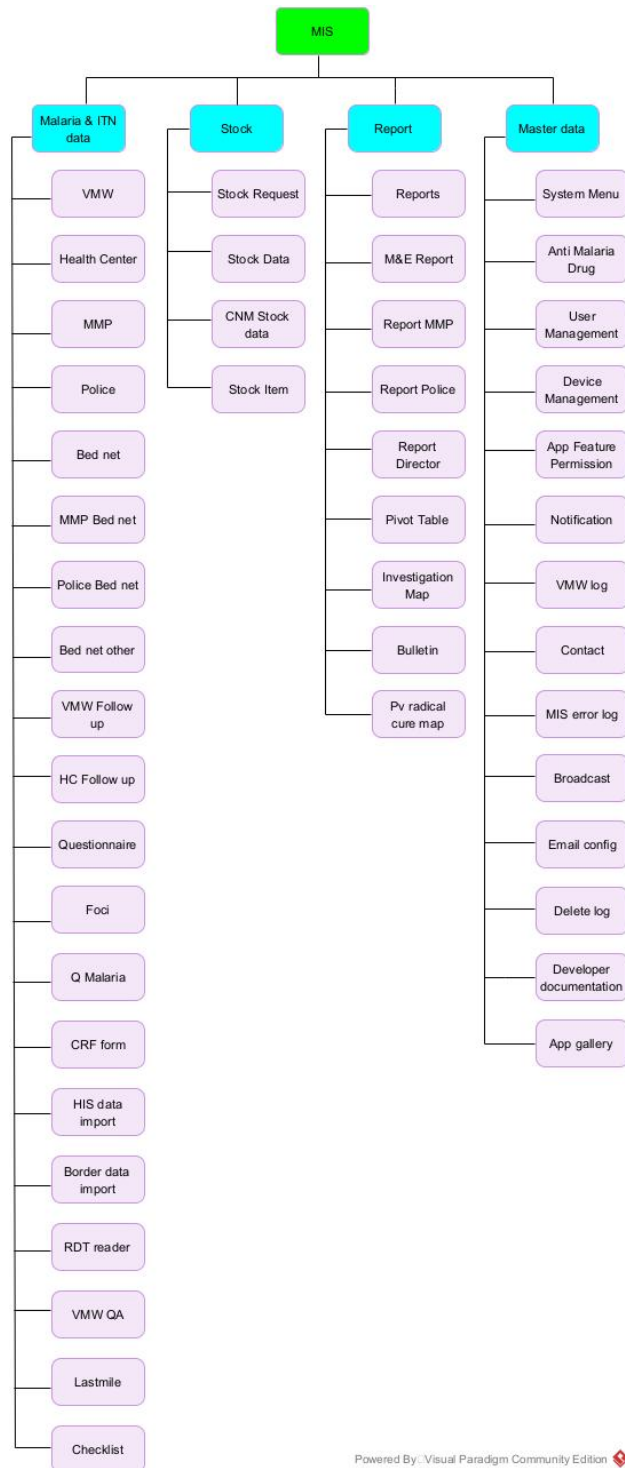


Fig. 2: Detail diagram

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```

| | |__CaseReport.php
| |
| |__views
| |
| | |__vmwcase_view.php
| |
|__media
|
| |__ViewModel
|
| |__VMWCase.js

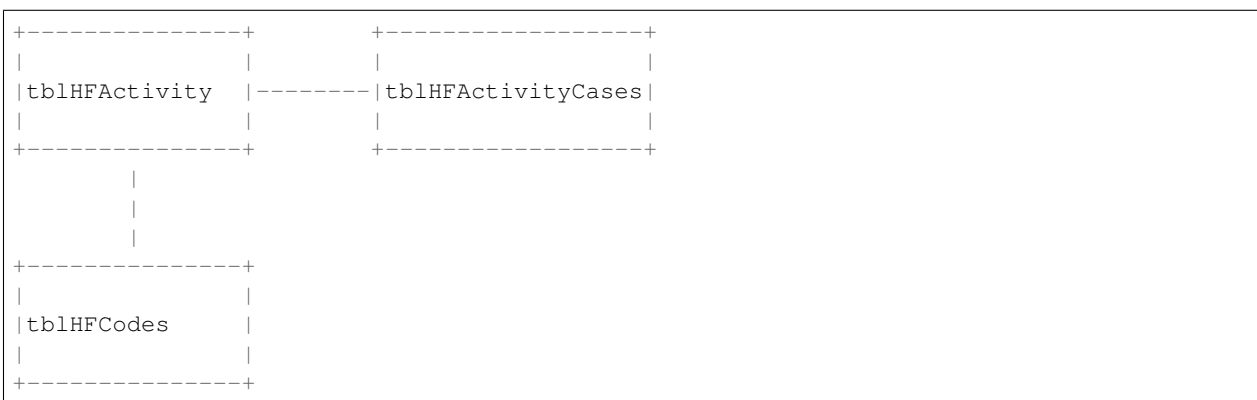
```

6.2.2 HC

Insert/Update/Delete HC case

- System: Tool for entering malaria case that report by health center/ referral hospital.
- Actor: OD staff
- Scenario: When HC/RH staff cannot report its case then OD staff will be responsible for entering data.

Table diagram



- Controller: CaseReport.php
 - hf() : view hf page
 - hfGetPreData() Treatments list.
 - hfGetReport() get HF and reported months list when you select OD.
 - hfGetCase() get HF case report when you click on report month of any HF.
 - hfUpdateCase() insert/update/delete case.

```

if( Rec_ID > 0 )
  then update()
else if ( Rec_ID < 0 )
  then delete()
else insert()

```

- View: hfcase_view.php
- ViewModel: HFCase.js

```

root
|
|--application
|   |
|   |--controller
|   |   |
|   |   |--CaseReport.php
|   |
|   |--views
|   |   |
|   |   |--hfcase_view.php
|   |
|--media
|   |
|   |--ViewModel
|   |   |
|   |   |--HFCase.js

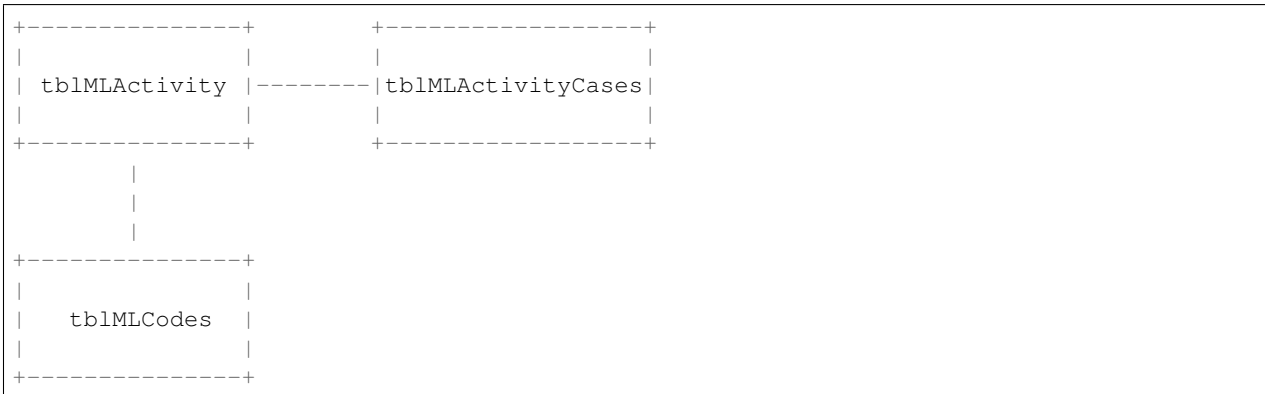
```

6.2.3 MMP

Insert/Update/Delete MMP case

- System: Tool for MMP to enter malaria case.
- Actor: MMP staff.
- Scenario: MMP staff login and go to MMP tool then enter data.

Table diagram



- Controller: CaseReport.php
 - ml() : view MMP page
 - mlGetPreData() get region, province and treatments list.
 - mlGetReport() get group and reported months list when you select province.
 - mlGetCase() get case report when you click on report month of any group.
 - mlUpdateCase() insert/update/delete case.

```

if ( Rec_ID > 0 )
    then update()
else if ( Rec_ID < 0 )

```

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```

    then delete()
else insert()

```

- View: mlcase_view.php
- ViewModel: MLCase.js

```

root
|
|--application
| |
| | |--controller
| | |
| | | |--CaseReport.php
| | |
| | |--views
| | |
| | | |--mlcase_view.php
| | |
|--media
| |
| | |--ViewModel
| | |
| | | |--MLCase.js

```

6.2.4 Police

Insert/Update/Delete Police case

Table diagram



- Controller: CaseReport.php
 - pl() : view police page
 - plGetPreData() get province, troop, treatment list.
 - plGetReport() get post, district, month report list.
 - plGetCase() get case report when you click on report month.
 - plUpdateCase() insert/update/delete case.

```

if ( Rec_ID > 0 )
    then update()
else if ( Rec_ID < 0 )
    then delete()
else insert()

```

- View: plcase_view.php
- ViewModel: PLCase.js

```

root
|
|--application
| |
| | |--controller
| | |
| | | |--CaseReport.php
| | |
| | |--views
| | |
| | | |--plcase_view.php
| | |
|--media
| |
| | |--ViewModel
| | |
| | | |--PLCase.js

```

6.2.5 Bed net

Insert/Update/Delete bed net

Tablet diagram

```

+-----+ +-----+ +-----+
|         |         |         | | |
| tblCensusVillage |----| tblMalBedNet |----| tblHFCodes |
|         |         |         |
+-----+ +-----+ +-----+

```

- Controller: CaseReport.php
 - bednet () : view bed net page.
 - bednetGetReport () get groups and month report list.
 - bednetGetCase () get bed net report when you click on report month.
 - bednetUpdateCase () insert/update/delete bed net.

```

if ( Rec_ID > 0 )
    then update()
else if ( Rec_ID < 0 )
    then delete()
else insert()

```

- bednetDeleteReport () delete report.

- View: bednet_view.php

- ViewModel: Bednet.js

```

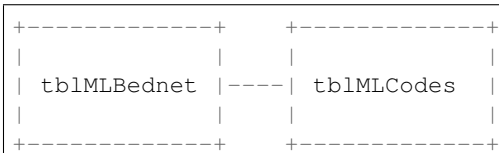
root
|
|--application
| |
| | |--controller
| | | |
| | | | |--CaseReport.php
| | | |
| | | |--views
| | | |
| | | | |--bednet_view.php
| | | |
| | |--media
| | |
| | | |--ViewModel
| | | |
| | | | |--Bednet.js

```

6.2.6 MMP bed net

Insert/Update/Delete MMP bed net

Tablet diagram



- Controller: CaseReport.php
 - bednetML() : view MMP bed net page.
 - mlGetPreData() get region, province and treatments list.
 - bednetMLGetReport() get groups and month report list.
 - bednetMLGetCase() get bed net report when you click on report month.
 - bednetMLUpdateCase() insert/update bed net.

```

if ( Rec_ID == -1 )
  then insert()
else update()

```

- bednetMLDeleteReport() delete report.

- View: mlbednet_view.php
- ViewModel: MLBednet.js

```

root
|
|--application
| |
| | |--controller

```

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```

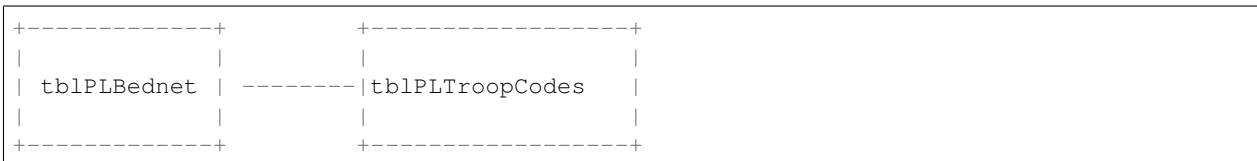
| | |
| | |__CaseReport.php
| | |
| | |__views
| | |
| | |__mlbednet_view.php
| | |
| |__media
| | |
| | |__ViewModel
| | |
| | |__MLBednet.js

```

6.2.7 Police bed net

Insert/Update/Delete police bed net report

Tablet diagram



- Controller: CaseReport.php
 - bednetPL() : view police bed net page.
 - plGetPreData() get province list.
 - bednetPLGetReport() get troop and month report list.
 - bednetPLGetCase() get bed net report when you click on report month.
 - bednetPLUpdateCase() insert/update bed net.

```

if ( Rec_ID == -1 )
  then insert()
else update()

```

- bednetPLDeleteReport() delete report.

- View: plbednet_view.php
- ViewModel: PLBednet.js

```

root
|
|__application
| |
| |__controller
| | |
| | |__CaseReport.php
| | |
| |__views
| |
|

```

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```

|      |__plbednet_view.php
|
|__media
|
|      |__ViewModel
|
|      |__PLBednet.js

```

6.2.8 Bed net other

Insert/Update/Delete other bed net report

Tablet diagram

```

+-----+
|      |
|      |tblMalBednetOther|
|      |
|      |
+-----+

```

- Controller: CaseReport.php
 - bednetother() : view police bed net page.
 - bednetOtherGetReport() get troop and month report list.
 - bednetOtherUpdateReport() insert/update/delete bed net.

```

if ( Rec_ID > 0 )
    then update()
else if ( Rec_ID < 0 )
    then delete()
else insert()

```

- View: bednetother_view.php
- ViewModel: BednetOther.js

```

root
|
|__application
|
|  |__controller
|  |
|  |  |__CaseReport.php
|  |
|  |__views
|  |
|  |  |__bednetother_view.php
|  |
|__media
|
|  |__ViewModel
|  |
|  |  |__BednetOther.js

```


Annex 7: Forest Pack

Table

tblQuestion22

- Controller: Question.php
 - index(Q22) view page.
 - getData(tblQuestion22) retrieve data.
- Controller: Direct.php
 - insert()
 - update()
- View: question22_view.php
- ViewModel: Question22.js

6.2.10 Foci investigation

Table v1

tblFociInvestiation	tblCensusVillage
---------------------	------------------

Table v2

tblFociInvestiation2	tblCensusVillage
----------------------	------------------

List of foci

- Controller: Foci.php
 - index() view page
 - getData() we use store procedure SP_Get_FociList
 - getDetail()
- View: foci_view.php
- ViewModel: Foci.js

Detail of foci v1

- Controller: Foci.php
 - open(village_code) to open form of foci v1.
 - save1() to save data of foci v1.

```
if ( Rec_ID == null )
  then insert()
else update()
```

- getPatient()
- View: foci1_view.php
- ViewModel: Foci1.js

Detail of foci v2

- Controller: Foci.php
 - open(village_code) to open form of foci v2.
 - save2() to save data of foci v2.

```
if ( Rec_ID == null )
  then insert()
else update()
```

- getClassify()
- View: foci1_view.php
- ViewModel: Foci1.js

6.2.11 Follow up

VMW follow up

- System: Followup tool for enter VMW followup data.
- Primary actor: OD staff.
- Scenario: When VMW report malaria case with Pv or Mix specie then system will create patient code and write to database and create VMW notification log. when patient go to health center to get Pv radical cure then Hc staff update case by adding G6PD result and number of primaquine then system will create follow up form for that patient. In case Hc does not enter data then OD staff will be responsible for entering data.

Table

+	-----	+
	tblVMWFollowup	
+	-----	+

- Controller: VMWFollowup.php

- getData() get list of VMW follow up
- getDetail() get detail of VMW follow up
- delete() delete follow up.
- save() insert/update

```
if ( empty (Rec_ID) )
  then insert()
else update()
```

- View: vmwfollowup_view.php
- ViewModel: VMWFollowup.js

HC follow up

- System: Followup tool for enter HF followup data.
- Primary actor: OD staff.
- Scenario: When HC report malaria case with Pv or Mix specie then system will write to database and generate patient code. If patient come from Village that has VMW system will create VMW Notificatino, otherwise system will create HC notification. If that patient get Pv radical cure service then Hc update case by enter result of G6PD and number of primaquine then system will create follow up form. in case Hc staff does not enter followup data in time then OD staff will be responsible for entering data.

Table

```
+-----+
|      |
| tblHCFollowup |
|      |
+-----+
```

- Controller: HCFollowup.php
 - getData() get list of follow up
 - getDetail() get detail of follow up
 - delete() delete follow up.
 - save() insert/update

```
if ( empty (Rec_ID) )
  then insert()
else update()
```

- View: hcfollowup_view.php
- ViewModel: HCFollowup.js

6.2.12 HIS data upload

Table diagram

+-----+		+-----+		+-----+		+-----+	
↩-----+							
↩							
	tblHisDipstick		tblHisSlide		tblHisTreat		↩
↩tblHisVMW							
↩							
+-----+		+-----+		+-----+		+-----+	
↩-----+							

- Controller: HIS.php
 - getData() get list of his report
 - getDetail() show detail of report by month
 - getReport() show report of HIS and MIS
 - upload() upload excel file of HIS
 - delete() delete report
- View his_view.php
- ViewModel: HIS.js

6.2.13 Border malaria case upload

Table

+-----+	
	tblBorderCases
+-----+	

- Controller: BorderImport.php
- View: borderimport_view.php
- ViewModel: BorderImport.js

7.1 Users

7.1.1 HF Authentication

POST /api4/Users/mobile_auth

User login

Parse as json:

```
{
  "place_code": "010206",
  "Imei": "869501020203870"
}
```

Response as json:

```
{
  "Name_Prov_K": "Banteay mean chey",
  "Name_OD_K": "Poi Pet",
  "Is_Enable_VMW_Report": 1,
  "Is_Enable_Investigation_Report": 1,
  "Is_Enable_Reactive_Report": 1,
  "Is_Enable_SMS_Alert": 1,
  "Is_Enable_Stock": 1,
  "Is_Radical_Cure": 1,
  "Is_Radical_Cure_HSD": 1,
  "Name_Facility_K": "Kob",
  "Code_Facility_T": "010206",
  "IsReminder": null,
  "BedNetView": 1,
  "BedNetEdit": 1,
  "BedNetDelete": 1,
  "HCCaseDelete": 1,
  "HCCaseEdit": 1,
  "VMWCaseDelete": 1,
  "VMWCaseEdit": 1,
  "PopView": 1,
  "PopEdit": 1,
  "User_Role": "HC",
  "Phone": "0974930445"
}
```

7.1.2 VMW Authentication

POST /api4/Users/mobile_auth

User login

Parse as json:

```
{
  "place_code": "1406010100",
  "Imei": "863338030163372"
}
```

Response as json:

```
{
  "Name_Prov_K": "Preyveng",
  "Name_Dist_K": "Peamchor",
  "Name_Comm_K": "Angkor Ang",
  "Name_Vill_K": "Angkor Ang (M)",
  "Code_Vill_T": "1406010100",
  "Name_Facility_K": "Angkor Ang",
  "Is_Radical_Cure": 1,
  "Is_Radical_Cure_HSD": 1,
  "IsLastmile": 0,
  "IsReminder": 1,
  "User_Role": "VMW",
  "Phone": null
}
```

Note: place_code if length of place_code is 6 digits, it is HF code

place_code if length of place_code is 10 digits, it is Village code

7.1.3 Logout

POST /api4/Users/logout

Logout from device

Parse as json:

```
{
  "code": "123456"
}
```

Response as json (correct code):

```
{
  "logout": true
}
```

Response as json (incorrect code):

```
{
  "logout": false
}
```

7.1.4 Location

POST /api4/Users/location

Log location of device

Parse as json:

```
{
  "Lat": "123456",
  "Lon": "223454354",
  "Imei": "123456789",
  "HC_Code": "010206"
}
```

7.1.5 Log device information

POST /api4/Users/phone_info

Log information of device

Parse as json:

```
{
  "Model_Name": "Samsung",
  "Phone_Number": "223454354",
  "Imei": "123456789",
  "HC_Code": "010206"
}
```

7.1.6 Restrict user login

POST /api4/Users/restrict_login

Validation user code login and feed back

Parse as json:

```
{
  "Imei": "123456789",
  "HC_Code": "010206",
  "Logged": 1,
  "Malaria_Version": "3.0.1"
}
```

7.1.7 User permission

POST /api4/Users/permission

Check app permission

Parse as json:

```
{
  "Imei": "123456789",
  "HC_Code": "010206"
}
```


Response as json:

```
{
  "entry_expired_form": 1,
  "entry_expired_stock": 1,
  "send_phone": 1
}
```

7.2 HF Activity case

7.2.1 Insert

POST /api4/Reports/hf_activity_cases

Insert new case

Parse as json:

```
{
  "HF_Activity_Cases": [
    {
      "Month": "07",
      "Year": "2021",
      "DateCase": "2021-07-01",
      "NameK": "Test Patient",
      "PatientPhone": "010123456789",
      "Code_Vill_t": "1406010100",
      "Sex": "F",
      "Age": 25,
      "Weight": 99,
      "Temperature": 40,
      "DiagnosisText": "Simple",
      "Microscopy": false,
      "RDT": true,
      "Diagnosis": "N",
      "NumberTests": 1,
      "UUID": "799440634c87b27f",
      "User_Code_Fa_T": "140612"
    },
    {
      "Month": "07",
      "Year": "2021",
      "DateCase": "2021-07-01",
      "NameK": "Test Patient",
      "PatientPhone": "010123456789",
      "Code_Vill_t": "1406010100",
      "Sex": "M",
      "Age": 25,
      "Weight": 99,
      "Temperature": 40,
      "PregnantMTHS": "",
      "DiagnosisText": "Simple",
      "Microscopy": false,
      "RDT": true,
      "Diagnosis": "F",
      "Treatment": "ASMQ",
    }
  ]
}
```

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```

    "Referred": true,
    "ReferredReason": "",
    "ReferredOtherReason": "",
    "Dead": false,
    "Relapse": 0,
    "L1": 1,
    "LC": 0,
    "LC_Code": "1004050523",
    "IMP": 0,
    "IMP_Text": "Thai",
    "G6PDHb": 15,
    "G6PDdL": 15,
    "IsACT": "Yes",
    "IsConsult": "Yes",
    "IsPrimaquine": "Yes",
    "Primaquine15": 0,
    "Primaquine75": 15,
    "NumberTests": 1,
    "UUID": "799440634c87b27f",
    "User_Code_Fa_T": "140612"
  }
]
}

```

Response JSON Object

- **ReferredReason** (*string*) –Blank/Severe/Other.
- **ReferredOtherReason** (*string*) –Available when ReferredReason value is Other.

7.2.2 Update

POST /api4/Reports/update_hf_activity_case

Update case

Parse as json:

```

{
  "HFCASE": {
    "Rec_ID": 1101492,
    "Dead": false,
    "DiagnosisText": "Simple",
    "Microscopy": false,
    "RDT": true,
    "ServiceText": "",
    "Temperature": 39,
    "Weight": 56,
    "Age": 22,
    "Code_Vill_t": "1406010100",
    "DateCase": "2021-06-04",
    "Diagnosis": "V",
    "G6PDHb": "16",
    "G6PDdL": "16",
    "IMP_Text": "",
    "IsPrimaquine": "1",

```

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```

    "LC_Code": "",
    "Month": "06",
    "NameK": "test1",
    "OtherTreatment": "",
    "PatientPhone": "1234567",
    "PregnantMTHS": "N",
    "Primaquine75": 46,
    "ReferredOtherReason": "",
    "ReferredReason": "",
    "Relapse": 1,
    "Sex": "M",
    "Treatment": "ASMQ",
    "UUID": "172eb328d808e45f",
    "User_Code_Fa_T": "140612",
    "Year": "2021"
  }
}

```

7.2.3 Delete

POST /api4/Reports/delete_hf_activity_case

Delete case

Query Parameters

- **year** (*int*) –year of report, e.g: 2020,2021,...
- **month** (*string*) –month of report, e.g: 01, 02, ..., 12
- **hc_code** (*string*) –code of health facility
- **rec_id** (*int*) –primary key of row

7.2.4 List

POST /api4/Reports/hc_data

Retrieve case data

Query Parameters

- **year** (*int*) –year of report, e.g: 2020,2021,...
- **month** (*string*) –month of report, e.g: 01, 02, ..., 12
- **hc_code** (*string*) –code of health facility

Response as json:

```

[
  {
    "Year": "2021",
    "Month": "12",
    "DateCase": "2021-12-09 00:00:00.000",
    "Code_Prov_T": "15",
    "Code_Dist_T": "1504",
    "Code_Comm_T": "150406",

```

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```

"Code_Vill_t": "1504060300",
"PassProvince": null,
"PassDistrict": null,
"PassCommune": null,
"PassAddress": null,
"NameK": "Vannra",
"Age": 29,
"AgeType": "Y",
"Sex": "M",
"PregnantMTHS": "N",
"DiagnosisText": "Simple",
"ServiceText": "",
"Microscopy": 1,
"RDT": 0,
"Diagnosis": "F",
"Treatment": "Other",
"OtherTreatment": "Moru stady",
"Referred": 0,
"ReferredReason": "",
"ReferredOtherReason": "",
"Dead": 0,
"ID": "150301",
"UUID": "02b9a6cd50ddd32b",
"NumberTests": 1,
"Rec_ID": 1180704,
"Is_Mobile_Entry": 1,
"Weight": 62,
"Temperature": "38",
"PatientCode": "",
"PatientPhone": "066408991",
"G6PD": null,
"PQTreatment": "",
"IsConsult": null,
"IsACT": null,
"IsPrimaquine": "0",
"Primaquine15": null,
"Primaquine75": null,
"PrimaquineDate": null,
"G6PDdL": null,
"G6PDHb": null,
"Relapse": 0,
"L1": 0,
"LC": 1,
"IMP": null,
"LC_Province": null,
"LC_District": null,
"LC_Commune": null,
"LC_Code": "Pursat",
"IMP_Text": null,
"Fingerprint": null
},
{
  "Year": "2021",
  "Month": "12",
  "DateCase": "2021-12-10 00:00:00.000",
  "Code_Prov_T": null,

```

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```

"Code_Dist_T": null,
"Code_Comm_T": null,
"Code_Vill_t": "",
"PassProvince": null,
"PassDistrict": null,
"PassCommune": null,
"PassAddress": null,
"NameK": "",
"Age": 64,
"AgeType": "Y",
"Sex": "F",
"PregnantMTHS": "N",
"DiagnosisText": "Simple",
"ServiceText": null,
"Microscopy": 0,
"RDT": 1,
"Diagnosis": "N",
"Treatment": null,
"OtherTreatment": null,
"Referred": 0,
"ReferredReason": null,
"ReferredOtherReason": null,
"Dead": 0,
"ID": "150301",
"UUID": "02b9a6cd50ddd32b",
"NumberTests": 1,
"Rec_ID": 1180984,
"Is_Mobile_Entry": 1,
"Weight": 0,
"Temperature": "37",
"PatientCode": null,
"PatientPhone": "",
"G6PD": null,
"PQTreatment": null,
"IsConsult": null,
"IsACT": null,
"IsPrimaquine": null,
"Primaquine15": null,
"Primaquine75": null,
"PrimaquineDate": null,
"G6PDdL": null,
"G6PDHb": null,
"Relapse": null,
"L1": null,
"LC": null,
"IMP": null,
"LC_Province": null,
"LC_District": null,
"LC_Commune": null,
"LC_Code": null,
"IMP_Text": null,
"Fingerprint": null
}
]

```

7.3 VMW Activity case

7.3.1 Insert

POST /api4/Reports/vmw_activity_cases

Insert new case

Parse as json:

```
{
  "VMW_Activity_Cases": [
    {
      "Month": "07",
      "Year": "2021",
      "Age": 88,
      "Sex": "M",
      "Diagnosis": "N",
      "NumberTests": 1,
      "HC_Code": "",
      "UUID": "799440634c87b27f",
      "User_Code_Fa_T": "1406010100"
    },
    {
      "Month": "07",
      "Year": "2021",
      "DateCase": "2021-07-01",
      "NameK": "test",
      "PatientPhone": "3333333333",
      "Sex": "M",
      "Age": 25,
      "PregnantMTHS": "",
      "Weight": 25.5,
      "Temperature": 39.5,
      "Mobile": "N",
      "Diagnosis": "F",
      "Treatment": "ASMQ",
      "TreatmentPill": 10,
      "OtherTreatment": "ASMQ",
      "DOT1": 1,
      "ReferredReason": "PV",
      "ReferredOtherReason": "",
      "Relapse": 0,
      "L1": 0,
      "LC": 1,
      "LC_Code": "1004050523",
      "IMP": 1,
      "IMP_Text": "Thai",
      "G6PDHb": 15,
      "G6PDdL": 15,
      "IsACT": "Yes",
      "IsConsult": "Yes",
      "IsPrimaquine": "Yes",
      "Primaquine15": 0,
      "Primaquine75": 15,
      "NumberTests": 1,
      "Remark": "",
      "UUID": "799440634c87b27f",

```

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```

    "User_Code_Fa_T": "1406010100",
    "HC_Code": ""
  }
]
}

```

Response JSON Object

- **ReferredReason** (*string*) –Blank/Severe/Other.
- **ReferredOtherReason** (*string*) –Available when ReferredReason value is Other.

7.3.2 Update

POST /api4/Reports/update_vmw_activity_case

Update case

Parse as json:

```

{
  "VMWCase": {
    "Rec_ID": 2563751,
    "Month": "02",
    "Year": "2020",
    "DateCase": "2020-02-01",
    "NameK": "test",
    "PatientPhone": "0123456789",
    "Sex": "M",
    "Age": 25,
    "PregnantMTHS": "",
    "Weight": 25.5,
    "Temperature": 39.5,
    "Mobile": "N",
    "Diagnosis": "F",
    "Treatment": "ASMQ",
    "TreatmentPill": 10,
    "OtherTreatment": "ASMQ",
    "DOT1": 1,
    "ReferredReason": "PV",
    "ReferredOtherReason": "",
    "Relapse": 0,
    "L1": 0,
    "LC": 1,
    "LC_Code": "1004050523",
    "IMP": 1,
    "IMP_Text": "Thai",
    "G6PDHb": 15,
    "G6PDdL": 15,
    "IsACT": "Yes",
    "IsConsult": "Yes",
    "IsPrimaquine": "Yes",
    "Primaquine15": 0,
    "Primaquine75": 15,
    "NumberTests": 1,
    "Remark": ""
  }
}

```

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```

    "User_Code_Fa_T": "1406010100",
    "UUID": "799440634c87b27f",
    "PatientCode": "AA0743"
  }
}

```

7.3.3 Delete

POST /api4/Reports/delete_vmw_activity_case

Delete case

Query Parameters

- **year** (*int*) –year of report, e.g: 2020,2021,...
- **month** (*string*) –month of report, e.g: 01, 02, ..., 12
- **village_code** (*string*) –code of village
- **rec_id** (*int*) –primary key of row

7.3.4 List

POST /api4/Reports/search_patient

Retrieve case data

Query Parameters

- **year** (*int*) –year of report, e.g: 2020,2021,...
- **month** (*string*) –month of report, e.g: 01, 02, ..., 12
- **hc_code** (*string*) –code of health facility

Response as json:

```

[
  {
    "Code_Vill_T": "1406010100",
    "Year": "2021",
    "Month": "06",
    "DateCase": "2021-06-18 00:00:00.000",
    "NameK": "????",
    "Age": 36,
    "AgeType": "Y",
    "Sex": "M",
    "PregnantMTHS": "N",
    "Weight": 60,
    "Temperature": 39,
    "Mobile": "N",
    "Diagnosis": "V",
    "Treatment": "ASMQ",
    "ReferredReason": "PV Radical Cure",
    "ReferredOtherReason": null,
    "OtherTreatment": "",
    "DOT1": 0,
  }
]

```

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```

"Dot3days": 0,
"Referred": 1,
"Dead": 0,
"Remark": null,
"ID": "1406010100",
"UUID": "172eb328d808e45f",
"NumberTests": 1,
"Rec_ID": 2636965,
"Is_Mobile_Entry": 1,
"Passive": 0,
"PatientCode": "AA2957",
"PatientPhone": "1234688",
"PQTreatment": null,
"G6PD": null,
"IsConsult": null,
"IsACT": null,
"IsPrimaquine": "1",
"Primaquine15": null,
"Primaquine75": 42,
"PrimaquineDate": "2021-06-18",
"G6PDdL": "15.00",
"G6PDHb": "14.00",
"Relapse": 0,
"L1": 1,
"LC": null,
"IMP": null,
"LC_Province": null,
"LC_District": null,
"LC_Commune": null,
"LC_Code": null,
"Primaquine": null,
"ASMQ": 1,
"IMP_Text": null,
"Fingerprint": null
}
1

```

7.4 Reactive case

7.4.1 List

GET /api4/ReactiveCase/list

Retrieve list data

Query Parameters

- **year** (*int*) –year of report, e.g: 2020,2021,...
- **month** (*string*) –month of report, e.g: 01, 02, ..., 12
- **HC_Code** (*string*) –code of health facility

Response as json:

```

{
  "code": 200,
  "message": "success",
  "data": [
    {
      "Passive_Case_Id": "2648747_VMW",
      "Case_Type": "VMW",
      "ID": "1406010100",
      "Name_K": "????",
      "Diagnosis": "V",
      "Year": "2021",
      "Month": "06",
      "Code_Vill_t": "1406010100",
      "Age": 22,
      "Gender": "M",
      "PatientPhone": "0789456123",
      "Is_Reactive": 2,
      "HCCode": "140612"
    },
    {
      "Passive_Case_Id": "2636965_VMW",
      "Case_Type": "VMW",
      "ID": "1406010100",
      "Name_K": "????",
      "Diagnosis": "V",
      "Year": "2021",
      "Month": "06",
      "Code_Vill_t": "1406010100",
      "Age": 36,
      "Gender": "M",
      "PatientPhone": "1234688",
      "Is_Reactive": 4,
      "HCCode": "140612"
    }
  ]
}

```

7.4.2 Detail

GET /api4/ReactiveCase/detail

Retrieve detail information

Query Parameters

- **Passive_Case_Id** (*string*) -Passive case ID, e.g: 1092112_HC, 1092112_VMW (Rec_ID + _HC / Rec_ID + _VMW)

Response as json:

```

{
  "code": 200,
  "message": "success",
  "data": [
    {
      "Rec_ID": 1553,
      "Passive_Case_Id": "1092112_HC",

```

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```

    "DateCase": "2021-05-28",
    "PatientCode": null,
    "PatientName": "a 01",
    "PatientIDCard": "07893444",
    "PatientPhone": "153886",
    "PatientAge": 36,
    "PatientSex": "M",
    "Lat": 11.5946862,
    "Long": 104.8611213,
    "Code_Vill_T": "1406010100",
    "ForestSleep": "Other",
    "ForestSleepOther": "yyh",
    "Workplace": null,
    "WorkplaceOther": null,
    "Shelter": "House",
    "Bednet": "No",
    "InvestigationDate": "2021-05-28",
    "Investigator": "tghh",
    "InvestigatorJob": "test",
    "InvestigatorPhone": "480666",
    "Classify": "LC",
    "HouseNumber": 1,
    "Member": "02",
    "Age": 25,
    "Sex": "M",
    "Missing": "Absent",
    "Diagnosis": "N",
    "Treatment": null,
    "TreatmentOther": null,
    "Fever": 1,
    "Forest": 0,
    "Travel": 0,
    "History": 0,
    "Relative": 0,
    "InitTime": "2021-05-28 13:35:52.583",
    "Code_Prov_T": "14",
    "Code_OD_T": "1406",
    "Code_Facility_T": "140612"
  },
  {
    "Rec_ID": 1554,
    "Passive_Case_Id": "1092112_HC",
    "DateCase": "2021-05-28",
    "PatientCode": null,
    "PatientName": "a 01",
    "PatientIDCard": "07893444",
    "PatientPhone": "153886",
    "PatientAge": 36,
    "PatientSex": "M",
    "Lat": 11.5946862,
    "Long": 104.8611213,
    "Code_Vill_T": "1406010100",
    "ForestSleep": "Other",
    "ForestSleepOther": "yyh",
    "Workplace": null,
    "WorkplaceOther": null,

```

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```

    "Shelter": "House",
    "Bednet": "No",
    "InvestigationDate": "2021-05-28",
    "Investigator": "tghh",
    "InvestigatorJob": "test",
    "InvestigatorPhone": "480666",
    "Classify": "LC",
    "HouseNumber": 102,
    "Member": "03",
    "Age": 55,
    "Sex": "F",
    "Missing": "Reject",
    "Diagnosis": "F",
    "Treatment": "ASMQ",
    "TreatmentOther": null,
    "Fever": 0,
    "Forest": 1,
    "Travel": 1,
    "History": 1,
    "Relative": 1,
    "InitTime": "2021-05-28 13:35:52.587",
    "Code_Prov_T": "14",
    "Code_OD_T": "1406",
    "Code_Facility_T": "140612"
  }
}

```

7.4.3 Update

POST /api4/ReactiveCase/update

Insert/Update data

Parse as json:

```

{
  "Reactive_Activity_Cases": [
    {
      "Age": 25,
      "Bednet": "No",
      "Classify": "LC",
      "Code_Vill_T": "1406010100",
      "DateCase": "2021-05-28",
      "Diagnosis": "N",
      "Fever": 1,
      "Forest": 0,
      "ForestSleep": "Other",
      "ForestSleepOther": "yyh",
      "History": 0,
      "HouseNumber": "01",
      "Id": "",
      "InvestigationDate": "2021-05-28",
      "Investigation_Case_Id": "",
      "Investigator": "tghh",
      "InvestigatorJob": "test",

```

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```

    "InvestigatorPhone": "480666",
    "Is_Mobile_Entry": 0,
    "Lat": 11.5946862,
    "Long": 104.8611213,
    "Member": "02",
    "Missing": "Absent",
    "Passive_Case_Id": "1092112_HC",
    "PatientAge": 36,
    "PatientIDCard": "07893444",
    "PatientName": "a 01",
    "PatientPhone": "153886",
    "PatientSex": "M",
    "Relative": 0,
    "Sex": "M",
    "Shelter": "House",
    "Travel": 0,
    "UUID": "799440634c87b27f",
    "User_Code_Fa_T": "140612",
    "User_Id": "140612"
  },
  {
    "Age": 55,
    "Bednet": "No",
    "Classify": "LC",
    "Code_Vill_T": "1406010100",
    "DateCase": "2021-05-28",
    "Diagnosis": "F",
    "Fever": 0,
    "Forest": 1,
    "ForestSleep": "Other",
    "ForestSleepOther": "yyh",
    "History": 1,
    "HouseNumber": "0102",
    "Id": "",
    "InvestigationDate": "2021-05-28",
    "Investigation_Case_Id": "",
    "Investigator": "tghh",
    "InvestigatorJob": "test",
    "InvestigatorPhone": "480666",
    "Is_Mobile_Entry": 0,
    "Lat": 11.5946862,
    "Long": 104.8611213,
    "Member": "03",
    "Missing": "Reject",
    "Passive_Case_Id": "1092112_HC",
    "PatientAge": 36,
    "PatientIDCard": "07893444",
    "PatientName": "a 01",
    "PatientPhone": "153886",
    "PatientSex": "M",
    "Relative": 1,
    "Sex": "F",
    "Shelter": "House",
    "Travel": 1,
    "Treatment": "ASMQ",
    "UUID": "799440634c87b27f",
  }

```

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```

        "User_Code_Fa_T": "140612",
        "User_Id": "140612"
    }
]
}

```

Note: if Id = "" it will insert new data

if Id != "" it will update data

7.5 Stock data

7.5.1 Stock close

POST /api4/ReactiveCase/update

Insert/Update data

Parse as json:

```

{
  "HC_Code": 123456,
  "Year": 2021,
  "Month": "01",
  "Data": [
    {
      "Adjustment": "0",
      "Balance": "0",
      "Estimate": "0",
      "ItemId": 34,
      "Note": "",
      "StockIn": "0",
      "StockOut": "0",
      "StockStart": "0",
      "Expire": "2021-12-12"
    },
    {
      "Adjustment": "0",
      "Balance": "0",
      "Estimate": "0",
      "ItemId": 38,
      "Note": "",
      "StockIn": "0",
      "StockOut": "0",
      "StockStart": "0",
      "Expire": "2021-12-12"
    },
    {
      "Adjustment": "0",
      "Balance": "0",
      "Estimate": "0",
      "ItemId": 39,
      "Note": "",

```

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```

        "StockIn": "0",
        "StockOut": "0",
        "StockStart": "0",
        "Expire": "2021-12-12"
    },
    {
        "Adjustment": "0",
        "Balance": "0",
        "Estimate": "0",
        "ItemId": 40,
        "Note": "",
        "StockIn": "0",
        "StockOut": "0",
        "StockStart": "0",
        "Expire": "2021-12-12"
    },
    {
        "Adjustment": "0",
        "Balance": "0",
        "Estimate": "0",
        "ItemId": 41,
        "Note": "",
        "StockIn": "0",
        "StockOut": "0",
        "StockStart": "0",
        "Expire": "2021-12-12"
    },
    {
        "Adjustment": "0",
        "Balance": "0",
        "Estimate": "0",
        "ItemId": 28,
        "Note": "",
        "StockIn": "0",
        "StockOut": "0",
        "StockStart": "0",
        "Expire": "2021-12-12"
    },
    {
        "Adjustment": "0",
        "Balance": "0",
        "Estimate": "0",
        "ItemId": 25,
        "Note": "",
        "StockIn": "0",
        "StockOut": "0",
        "StockStart": "0",
        "Expire": "2021-12-12"
    },
    {
        "Adjustment": "0",
        "Balance": "10",
        "Estimate": "-7",
        "ItemId": 26,
        "Note": "",
        "StockIn": "0",

```

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```

        "StockOut": "0",
        "StockStart": "10",
        "Expire": "2021-12-12"
    },
    {
        "Adjustment": "0",
        "Balance": "727",
        "Estimate": "-624.833",
        "ItemId": 27,
        "Note": "",
        "StockIn": "500",
        "StockOut": "52",
        "StockStart": "279",
        "Expire": "2021-12-12"
    },
    {
        "Adjustment": "0",
        "Balance": "1803",
        "Estimate": "-1,144.167",
        "ItemId": 29,
        "Note": "",
        "StockIn": "1300",
        "StockOut": "61",
        "StockStart": "564",
        "Expire": "2021-12-12"
    },
    {
        "Adjustment": "0",
        "Balance": "1343",
        "Estimate": "-1,246.167",
        "ItemId": 32,
        "Note": "",
        "StockIn": "1000",
        "StockOut": "120",
        "StockStart": "463",
        "Expire": "2021-12-12"
    },
    {
        "Adjustment": "0",
        "Balance": "0",
        "Estimate": "0",
        "ItemId": 30,
        "Note": "",
        "StockIn": "0",
        "StockOut": "0",
        "StockStart": "0",
        "Expire": "2021-12-12"
    },
    {
        "Adjustment": "0",
        "Balance": "172",
        "Estimate": "-126.667",
        "ItemId": 13,
        "Note": "",
        "StockIn": "200",
        "StockOut": "43",

```

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```

        "StockStart": "15",
        "Expire": "2021-12-12"
    },
    {
        "Adjustment": "0",
        "Balance": "58",
        "Estimate": "-51",
        "ItemId": 33,
        "Note": "",
        "StockIn": "0",
        "StockOut": "0",
        "StockStart": "58",
        "Expire": "2021-12-12"
    },
    {
        "Adjustment": "0",
        "Balance": "0",
        "Estimate": "0",
        "ItemId": 17,
        "Note": "",
        "StockIn": "0",
        "StockOut": "0",
        "StockStart": "0",
        "Expire": "2021-12-12"
    },
    {
        "Adjustment": "0",
        "Balance": "0",
        "Estimate": "0",
        "ItemId": 18,
        "Note": "",
        "StockIn": "0",
        "StockOut": "0",
        "StockStart": "0",
        "Expire": ""
    }
]
}

```

7.6 Report

7.6.1 Case report

POST /api4/reports/report_by_hc

Get case data

Parse as json:

```

{
  "HF_Request": {
    "end_date": "2021-12-30",
    "hc_code": "140612",
    "start_date": "2021-12-08",

```

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```
"type": "ALL"
}
}
```

Response as json:

```
[
  {
    "Negative": 0,
    "Positive": 1,
    "PF": 0,
    "PV": 1,
    "MIX": 0,
    "Incidence": ".15"
  }
]
```

7.6.2 Stock report

POST /api4/reports/stock

Get case data

Parse as json:

```
{
  "Date_From": "2021-12-30",
  "Date_To": "2021-12-30",
  "HC_Code": "140612"
}
```

Response as json:

```
[
  {
    "Negative": 0,
    "Positive": 0,
    "PF": 0,
    "PV": 0,
    "MIX": 0,
    "Incidence": ".00"
  }
]
```

7.7 Population

7.7.1 Form and data

POST /api4/Population/pop_village

show form with data

Parse as json:

```
{
  "hc_code": "150301",
  "year": 2021
}
```

Response as json:

```
[
  {
    "Code_Vill_T": "1504020100",
    "Name_Vill_K": "Leach",
    "Distance": 9,
    "Pop": 1307,
    "MobilePop": 0,
    "HHold": 324
  },
  {
    "Code_Vill_T": "1504020200",
    "Name_Vill_K": "Pich Ban",
    "Distance": 0,
    "Pop": 1511,
    "MobilePop": 0,
    "HHold": 385
  }
]
```

7.7.2 Insert/Update Population

POST /api4/Population/update_pop_village

Insert / update population

Parse as json:

```
{
  "PopVillage": [
    {
      "Code_Vill_T": "1406010200",
      "Distance": 4.6,
      "HHold": 0,
      "MobilePop": 0,
      "Pop": "0",
      "Year": "2021"
    },
    {
      "Code_Vill_T": "1406010300",
      "Distance": 6,
      "HHold": 0,
      "MobilePop": 0,
      "Pop": "0",
      "Year": "2021"
    },
    {
      "Code_Vill_T": "1406010400",
      "Distance": 0,
      "HHold": 0,

```

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```

        "MobilePop": 0,
        "Pop": "0",
        "Year": "2021"
    },
    {
        "Code_Vill_T": "1406010100",
        "Distance": 0,
        "HHold": 0,
        "MobilePop": 0,
        "Pop": "0",
        "Year": "2021"
    }
]
}

```

7.8 Bednet

7.8.1 Bednet form

POST /api4/BedNet/form
 Insert / update population

Parse as json:

```

{
  "hc_code": "140612",
  "month": 12,
  "year": 2021
}

```

Response as json:

```

[
  {
    "Code_Comm_T": "140601",
    "Name_Comm_K": "Angkor Ang",
    "Code_Vill_T": "1406010200",
    "Name_Vill_K": "Praek Treng",
    "VillCode": "1406010200",
    "LLIN": 1,
    "LLIHN": 1,
    "Campaign": 1,
    "Continued": 0,
    "Mobile": 0
  }
]

```

7.8.2 Bednet Insert/Update

POST /api4/BedNet/update

Insert / update population

Parse as json:

```
{
  "month": 12,
  "year": 2021,
  "hc_code": "010210",
  "data": [
    {
      "Year": "2021",
      "Month": "12",
      "ID": "010210",
      "VillCode": "0109061001",
      "LLIN": 256,
      "LLIHN": 256,
      "Campaign": 0,
      "Continued": 0,
      "Mobile": 1
    },
    {
      "Year": "2019",
      "Month": "01",
      "ID": "010210",
      "VillCode": "0109061000",
      "LLIN": 256,
      "LLIHN": 256,
      "Campaign": 0,
      "Continued": 0,
      "Mobile": 1
    }
  ]
}
```

7.9 Dashboard

7.9.1 Malaria status

POST /api4/Reports/vill_surveillance

Retrieve data

Parse as json:

```
{
  "hc_code": "150301",
  "year": 2021,
  "mt": "01",
  "mf": "12"
}
```

Response as json:

```
[
  {
    "Code": "1504020100",
    "Name_Vill_K": "Leach",
    "TotalTestLastYear": 5,
    "TotalTestThisYear": 2,
    "TotalCaseLastYear": 5,
    "TotalCaseThisYear": 2,
    "PfLastYear": 3,
    "PfThisYear": 0,
    "PvLastYear": 2,
    "PvThisYear": 2,
    "MixLastYear": 0,
    "MixThisYear": 0,
    "PositiveRateLastYear": "100",
    "PositiveRateThisYear": "100"
  },
  {
    "Code": "1504020200",
    "Name_Vill_K": "Pich ban",
    "TotalTestLastYear": 9,
    "TotalTestThisYear": 6,
    "TotalCaseLastYear": 9,
    "TotalCaseThisYear": 6,
    "PfLastYear": 2,
    "PfThisYear": 1,
    "PvLastYear": 7,
    "PvThisYear": 5,
    "MixLastYear": 0,
    "MixThisYear": 0,
    "PositiveRateLastYear": "100",
    "PositiveRateThisYear": "100"
  }
]
```

7.9.2 API of villages (chart)

POST /api4/Reports/vill_surveillance

Retrieve data

Parse as json:

```
{
  "hc_code": "150301",
  "year": 2021,
  "mt": "01",
  "mf": "12"
}
```

Response as json:

```
[
  {
    "Code_Vill_T": "0209050100",
    "Name_Vill_K": "Srae Onduong 1",
```

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```

    "VillLat": 12.570106,
    "VillLong": 102.738759,
    "HFLat": 12.645585,
    "HFLong": 102.76089,
    "Pop": 498,
    "Positive": 0,
    "HFPositive": 0,
    "VMWPositive": 0,
    "API": ".000000000000"
  },
  {
    "Code_Vill_T": "0209050200",
    "Name_Vill_K": "Chhork Roka",
    "VillLat": 12.57063,
    "VillLong": 102.740888,
    "HFLat": 12.645585,
    "HFLong": 102.76089,
    "Pop": 1768,
    "Positive": 0,
    "HFPositive": 0,
    "VMWPositive": 0,
    "API": ".000000000000"
  }
]

```

7.9.3 Cases (chart)

POST /api4/Chart/cases

Retrieve data

Parse as json:

```

{
  "hc_code": "150301",
  "year": 2021,
  "mt": "01",
  "mf": "12"
}

```

Response as json:

```

[
  {
    "Month": "01",
    "pf": 10,
    "pv": 138,
    "mix": 2,
    "TotalCases": 150
  },
  {
    "Month": "02",
    "pf": 13,
    "pv": 96,
    "mix": 1,
    "TotalCases": 110
  }
]

```

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```
},
{
  "Month": "03",
  "pf": 5,
  "pv": 84,
  "mix": 0,
  "TotalCases": 89
},
{
  "Month": "04",
  "pf": 4,
  "pv": 85,
  "mix": 0,
  "TotalCases": 89
},
{
  "Month": "05",
  "pf": 1,
  "pv": 78,
  "mix": 0,
  "TotalCases": 79
},
{
  "Month": "06",
  "pf": 7,
  "pv": 77,
  "mix": 4,
  "TotalCases": 88
},
{
  "Month": "07",
  "pf": 11,
  "pv": 90,
  "mix": 0,
  "TotalCases": 101
},
{
  "Month": "08",
  "pf": 1,
  "pv": 69,
  "mix": 2,
  "TotalCases": 72
},
{
  "Month": "09",
  "pf": 0,
  "pv": 43,
  "mix": 0,
  "TotalCases": 43
},
{
  "Month": "10",
  "pf": 4,
  "pv": 54,
  "mix": 0,
  "TotalCases": 58
}
```

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```

    },
    {
      "Month": "11",
      "pf": 1,
      "pv": 46,
      "mix": 0,
      "TotalCases": 47
    },
    {
      "Month": "12",
      "pf": 2,
      "pv": 32,
      "mix": 0,
      "TotalCases": 34
    }
  ]

```

7.9.4 Top 10 villages (chart)

POST /api4/Chart/piechart

Retrieve data

Parse as json:

```

{
  "hc_code": "150301",
  "year": 2021,
  "mt": "01",
  "mf": "12"
}

```

Response as json:

```

[
  {
    "Code_Vill_T": "0209050301",
    "Name_Vill_K": "Outa toeng",
    "Positive": 4,
    "TotalCases": 15,
    "API": "26.6666666666600"
  },
  {
    "Code_Vill_T": "0209050601",
    "Name_Vill_K": "Prolean",
    "Positive": 4,
    "TotalCases": 15,
    "API": "26.6666666666600"
  },
  {
    "Code_Vill_T": "0209050400",
    "Name_Vill_K": "Kantout",
    "Positive": 3,
    "TotalCases": 15,
    "API": "20.0000000000000"
  }
]

```

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```
}
]
```

7.10 Pv Radical cure

7.10.1 HF patient follow up list

GET /api4/HFFollowup/list

Retrieve list data

Query Parameters

- **year** (*int*) -year of report, e.g: 2020,2021,...
- **month** (*string*) -month of report, e.g: 01, 02, ..., 12
- **hc_code** (*string*) -code of health facility

Response as json:

```
{
  "code": 200,
  "message": "success",
  "data": [
    {
      "Code_Vill_T": "1406010400",
      "Name_Vill_K": "veal ro bong",
      "PatientCode": "AA4397",
      "NameK": "sa",
      "Sex": "M",
      "Age": 55,
      "PatientPhone": null,
      "HaveVMW": 0,
      "Case_ID": "1139092",
      "Type": "HC",
      "Day3": 0,
      "Day3Date": "2021-09-02",
      "Day7": 1,
      "Day7Date": "2021-09-06",
      "Day14": 1,
      "Day14Date": "2021-09-13"
    },
    {
      "Code_Vill_T": "1406010400",
      "Name_Vill_K": "veal ro bong",
      "PatientCode": "AA4414",
      "NameK": "soda",
      "Sex": "M",
      "Age": 66,
      "PatientPhone": null,
      "HaveVMW": 0,
      "Case_ID": "1140082",
      "Type": "HC",
      "Day3": 0,
      "Day3Date": "2021-09-03",
```

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```

    "Day7": 1,
    "Day7Date": "2021-09-07",
    "Day14": 1,
    "Day14Date": "2021-09-14"
  }
]
}

```

7.10.2 HF follow up detail

GET /api4/HFFollowup/detail

Retrieve detail data

Query Parameters

- **patient_code** (*string*) –patient code, e.g: AA1234
- **day** (*string*) –day of follow up, e.g: Day3, Day7, Day14
- **case_id** (*string*) –Rec_ID of case get from tblHFActivityCases

Response as json:

```

{
  "code": 200,
  "message": "success",
  "data": {
    "Rec_ID": 313,
    "Case_ID": "1139092",
    "Code_Vill_T": null,
    "PatientCode": "AA4397",
    "Day": "Day3",
    "Date": "2021-09-02",
    "Call": "Yes",
    "Referred": "Yes",
    "Code": "1, 4, 5",
    "TabletRemain": null,
    "IsMobileEntry": 1,
    "InitTime": "2021-09-02 13:43:15.240",
    "InitUser": null,
    "ModiTime": null,
    "ModiUser": null
  }
}

```

Response JSON Object

- **Case_ID** (*string*) –Rec_ID of case get from tblHFActivityCases.
- **PatientCode** (*string*) –Patient code of case get from tblHFActivityCases.
- **Day** (*string*) –Day of follow up, e.g: Day3, Day7, Day14
- **Call** (*string*) –Yes/No, if follow up patient by phone call the value is Yes, otherwise is no
- **Referred** (*string*) –Yes/No, if refer patient to HC/RH the value is Yes, otherwise is no

- **Code** (*int*) –0/1/2/3/4/5
- **TabletRemain** (*int*) –number of tablet that remain (medicine)

7.10.3 HF follow up Insert/Update

POST /api4/HFFollowup/update
update/insert follow up

Parse as json:

```
{
  "followup": {
    "Code_Vill_T": "1406010100",
    "Case_ID" : "HC_123",
    "PatientCode": "AA1338",
    "Day": "Day3",
    "Date": "2020-12-12",
    "Call": "Yes",
    "Referred": "No",
    "Code": "1,2"
  }
}
```

7.10.4 VMW Follow up List

GET /api4/VMWFollowup/list
Retrieve list data

Query Parameters

- **year** (*int*) –year of report, e.g: 2020,2021,...
- **month** (*string*) –month of report, e.g: 01, 02, ..., 12
- **code_village** (*string*) –code of vmw village

Response as json:

```
{
  "code": 200,
  "message": "success",
  "data": [
    {
      "Year": "2021",
      "Month": "09",
      "Code_Vill_T": "1406010100",
      "Name_Vill_K": "Angkor Ang (M)",
      "PatientCode": "AA4618",
      "NameK": "rey",
      "Sex": "M",
      "Age": 55,
      "DateCase": "2021-09-17",
      "Day3": 0,
      "Day3Date": "2021-09-23",
      "Day7": 0,

```

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```

    "Day7Date": "2021-09-27",
    "Day14": 0,
    "Day14Date": "2021-10-04",
    "Case_ID": "HC_1143002"
  },
  {
    "Year": "2021",
    "Month": "09",
    "Code_Vill_T": "1406010100",
    "Name_Vill_K": "Angkor Ang (M)",
    "PatientCode": "AA4620",
    "NameK": "rin",
    "Sex": "M",
    "Age": 50,
    "DateCase": "2021-09-17",
    "Day3": 0,
    "Day3Date": "2021-09-20",
    "Day7": 0,
    "Day7Date": "2021-09-24",
    "Day14": 0,
    "Day14Date": "2021-10-01",
    "Case_ID": "HC_1143004"
  }
]
}

```

7.10.5 VMW follow up detail

GET /api4/VMWFollowup/detail

Retrieve detail data

Query Parameters

- **patient_code** (*string*) –patient code, e.g: AA1234
- **day** (*string*) –day of follow up, e.g: Day3, Day7, Day14
- **case_id** (*string*) –Rec_ID of case get from tblVMWActivity-Cases/tblHFActivityCases, e.g: VMW_123456/HC_123456

Response as json:

```

{
  "code": 200,
  "message": "success",
  "data": {
    "Code_Vill_T": "1406010100",
    "Rec_ID": 650,
    "Case_ID": "VMW_123",
    "PatientCode": "AA0001",
    "Day": "Day7",
    "Date": "2019-01-15",
    "Method": "Direct",
    "Feeling": "Better",
    "ASMQ": "Yes",
    "Primaquine": "Yes",

```

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```

    "NoPrimaquineReason": "Yes",
    "NoPrimaquineOtherReason": "",
    "PrimaquineRemain": 10,
    "CardNoted": "Yes",
    "NotNotedReason": "Forget, NotSick",
    "Symptom": "Yes",
    "SevereFever": "Yes",
    "VeryChills": "Yes",
    "SoreThroat": "Yes",
    "VeryPale": "Yes",
    "VeryWeak": "Yes",
    "SevereVomiting": "Yes",
    "OtherSymptom": "",
    "OverPrimaquine": "Yes",
    "PatientManagement": "DoNothing",
    "IsMobileEntry": null,
    "InitTime": null,
    "InitUser": null,
    "ModiTime": null,
    "ModiUser": null
  }
}

```

Response JSON Object

- **Case_ID** (*string*) –Rec_ID of case get from tblVMWActivity-Cases/tblHFActivityCases, e.g: VMW_123456/HC_123456.
- **PatientCode** (*string*) –Patient code of case get from tblVMWActivity-Cases/tblHFActivityCases.
- **Day** (*string*) –Day of follow up, e.g: Day3, Day7, Day14
- **Method** (*string*) –Direct/By Phone.
- **Symptom** (*string*) –Yes/No.
- **VeryPale** (*string*) –Yes/No.
- **VeryWeak** (*string*) –Yes/No.
- **SevereVomiting** (*string*) –Yes/No.
- **OtherSymptom** (*string*) –any string.
- **ASMQ** (*string*) –Yes/No.
- **Primaquine** (*string*) –Yes/No.
- **NoPrimaquineReason** (*string*) –Forget, NotSick, SideEffect, Travel, NotTrust, LostMedicine
- **NoPrimaquineOtherReason** (*string*) –Any string
- **PrimaquineRemain** (*int*) –Integer value
- **CardNoted** (*string*) –Yes/No.
- **NotNotedReason** (*string*) –Any string
- **OverPrimaquine** (*string*) –Yes/No.
- **PatientManagement** (*string*) –DoNothing, CallHC, ReferToHC, ReferToRH

7.10.6 VMW follow up Insert/Update

POST /api4/VMWFollowup/update
update/insert follow up

Parse as json:

```
{
  "followup":{
    "Code_Vill_T" : "1406010100",
    "Case_ID": "VMW_123",
    "PatientCode": "AA0001",
    "Day": "Day7",
    "Date": "2019-01-15",
    "Method": "Direct",
    "Feeling": "Better",
    "ASMQ": "Yes",
    "Primaquine": "Yes",
    "NoPrimaquineReason": "Yes",
    "NoPrimaquineOtherReason": "",
    "PrimaquineRemain": "10",
    "CardNoted": "Yes",
    "NotNotedReason": "Forget, NotSick",
    "Symptom": "Yes",
    "SevereFever": "Yes",
    "VeryChills": "Yes",
    "SoreThroat": "Yes",
    "VeryPale": "Yes",
    "VeryWeak": "Yes",
    "SevereVomiting": "Yes",
    "OtherSymptom": "headach",
    "OverPrimaquine": "Yes",
    "PatientManagement": "DoNothing"
  }
}
```

7.11 Medication

7.11.1 HF Medication

GET /api4/Medication/hf
Get medication list for HF device

Response as json:

```
[
  {
    "Id": 8,
    "Value": "ASMQ",
    "Name": "?? + ????"
  },
  {
    "Id": 47,
    "Value": "ASMQ + PQ",

```

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```

    "Name": "??+??? ??? ??????????"
  },
  {
    "Id": 50,
    "Value": "ASMQ + PQ (1 Dose)",
    "Name": "ASMQ + PQ (1???) "
  },
  {
    "Id": 51,
    "Value": "ASMQ + PQ (14 Days)",
    "Name": "ASMQ + PQ (14????)"
  },
  {
    "Id": 38,
    "Value": "Other",
    "Name": "?????"
  },
  {
    "Id": 48,
    "Value": "Primaquine",
    "Name": "Primaquine ??????????"
  }
]

```

7.11.2 VMW Medication

GET /api4/Medication/vmw

Get medication list for VMW device

Response as json:

```

[
  {
    "Id": 8,
    "Value": "ASMQ",
    "Name": "?? + ??? "
  },
  {
    "Id": 47,
    "Value": "ASMQ + PQ",
    "Name": "??+??? ??? ??????????"
  },
  {
    "Id": 13,
    "Value": "No Stock",
    "Name": "No Stock ??????????????????????"
  },
  {
    "Id": 39,
    "Value": "None",
    "Name": "None ??????????????????"
  },
  {
    "Id": 38,
    "Value": "Other",

```

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```

    "Name": "???????"
  }
]

```

7.12 Register token

POST /api4/Notification/update_token

update/insert follow up

Parse as json:

```

{
  "Imei": "123456789",
  "CodePlace": "123456",
  "Token": "1234567890"
}

```

Response JSON Object

- **CodePlace** (*string*) –6 digits code for health facility, 10 digits code for village

7.13 Place

7.13.1 Check place is modify

GET /api4/Places/isModify

To check if place is modified in system.

Note: if return empty it mean nothing change.

if return any json data it mean place has been changed. and the json data that return is new data of place.

7.13.2 Get Province

GET /api4/Places/provinces

Get province list.

Response as json:

```

{
  "meta": {
    "total_page": 1
  },
  "data": [
    {
      "Code_Prov_T": "01",

```

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```

        "Name_Prov_E": "Banteay Meanchey",
        "Name_Prov_K": "?????????????"
    },
    {
        "Code_Prov_T": "02",
        "Name_Prov_E": "Battambang",
        "Name_Prov_K": "?????????"
    },
    {
        "Code_Prov_T": "03",
        "Name_Prov_E": "Kampong Cham",
        "Name_Prov_K": "?????????"
    },
    {
        "Code_Prov_T": "04",
        "Name_Prov_E": "Kampong Chhnang",
        "Name_Prov_K": "?????????????"
    },
    {
        "Code_Prov_T": "05",
        "Name_Prov_E": "Kampong Speu",
        "Name_Prov_K": "?????????"
    },
    {
        "Code_Prov_T": "06",
        "Name_Prov_E": "Kampong Thom",
        "Name_Prov_K": "?????????"
    },
    {
        "Code_Prov_T": "07",
        "Name_Prov_E": "Kampot",
        "Name_Prov_K": "?????"
    },
    {
        "Code_Prov_T": "08",
        "Name_Prov_E": "Kandal",
        "Name_Prov_K": "?????????"
    },
    {
        "Code_Prov_T": "09",
        "Name_Prov_E": "Koh Kong",
        "Name_Prov_K": "?????????"
    },
    {
        "Code_Prov_T": "10",
        "Name_Prov_E": "Kratie",
        "Name_Prov_K": "?????????"
    },
    {
        "Code_Prov_T": "11",
        "Name_Prov_E": "Mondul Kiri",
        "Name_Prov_K": "?????????????"
    },
    {
        "Code_Prov_T": "12",
        "Name_Prov_E": "Phnom Penh",

```

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```

        "Name_Prov_K": "២២២២២២២"
    },
    {
        "Code_Prov_T": "13",
        "Name_Prov_E": "Preah Vihear",
        "Name_Prov_K": "២២២២២២២២២"
    },
    {
        "Code_Prov_T": "14",
        "Name_Prov_E": "Prey Veng",
        "Name_Prov_K": "២២២២២២២"
    },
    {
        "Code_Prov_T": "15",
        "Name_Prov_E": "Pursat",
        "Name_Prov_K": "២២២២២២២២២"
    },
    {
        "Code_Prov_T": "16",
        "Name_Prov_E": "Ratanakiri",
        "Name_Prov_K": "២២២២២២២២"
    },
    {
        "Code_Prov_T": "17",
        "Name_Prov_E": "Siemreap",
        "Name_Prov_K": "២២២២២២២"
    },
    {
        "Code_Prov_T": "18",
        "Name_Prov_E": "Preah Sihanouk",
        "Name_Prov_K": "២២២២២២២២២"
    },
    {
        "Code_Prov_T": "19",
        "Name_Prov_E": "Stung Treng",
        "Name_Prov_K": "២២២២២២២២២២២"
    },
    {
        "Code_Prov_T": "20",
        "Name_Prov_E": "Svay Rieng",
        "Name_Prov_K": "២២២២២២២២២"
    },
    {
        "Code_Prov_T": "21",
        "Name_Prov_E": "Takeo",
        "Name_Prov_K": "២២២២២២"
    },
    {
        "Code_Prov_T": "22",
        "Name_Prov_E": "Oddar Meanchey",
        "Name_Prov_K": "២២២២២២២២២២២២២"
    },
    {
        "Code_Prov_T": "23",
        "Name_Prov_E": "Kep",
        "Name_Prov_K": "២២២"
    }

```

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```

    },
    {
      "Code_Prov_T": "24",
      "Name_Prov_E": "Pailin",
      "Name_Prov_K": "ប៉ៃលិន"
    },
    {
      "Code_Prov_T": "25",
      "Name_Prov_E": "Tbong Khmum",
      "Name_Prov_K": "ត្បូងឃ្មុំ"
    },
    {
      "Code_Prov_T": "30",
      "Name_Prov_E": "National Hospitals",
      "Name_Prov_K": "នគរក្រុង"
    }
  ]
}

```

7.13.3 Get district

GET /api4/Places/districts

Get district list.

Query Parameters

- **page** (*int*) –Page number.

Response as json:

```

{
  "meta": {
    "total_page": 7
  },
  "data": [
    {
      "Code_Dist_T": "0102",
      "Name_Dist_E": "Mongkol Borei",
      "Name_Dist_K": "ក្រុងប៉ោយប៉ែត"
    },
    {
      "Code_Dist_T": "0103",
      "Name_Dist_E": "Phnum Srok",
      "Name_Dist_K": "ភ្នំស្រី"
    },
    {
      "Code_Dist_T": "0104",
      "Name_Dist_E": "Preah Netr Preah",
      "Name_Dist_K": "ប្រាសាទបាវេ"
    }
  ]
}

```

7.13.4 Get district

GET /api4/Places/communes

Get communes list.

Query Parameters

- **page** (*int*) –Page number.

Response as json:

```
{
  "meta": {
    "total_page": 55
  },
  "data": [
    {
      "Code_Comm_T": "010201",
      "Name_Comm_E": "Banteay Neang",
      "Name_Comm_K": "ប្រាសាទបន្ទាយសង"
    },
    {
      "Code_Comm_T": "010202",
      "Name_Comm_E": "Bat Trang",
      "Name_Comm_K": "បាត់ទ្រាង"
    },
    {
      "Code_Comm_T": "010203",
      "Name_Comm_E": "ប្រាសាទបន្ទាយសង",
      "Name_Comm_K": "ប្រាសាទ"
    }
  ]
}
```

8.1 Stock

8.1.1 Form

POST /api5/Stocks/stock_form

Form of stock data

Query Parameters

- **Year** (*int*) –year of report, e.g: 2020,2021,...
- **Month** (*string*) –month of report, e.g: 01, 02, ..., 12
- **HC_Code** (*string*) –code of health facility

Response as json:

```
{
  "code": 200,
  "message": "success",
  "data": {
    "total_case": {
      "Pf": 0,
      "Pv": 0,
      "Mix": 0,
      "Positive": 0,
      "Test": 255
    },
    "hc_case": {
      "Pf": 0,
      "Pv": 0,
      "Mix": 0,
      "Positive": 0,
      "Test": 155
    },
    "vmw_case": {
      "Pf": 0,
      "Pv": 0,
      "Mix": 0,
      "Positive": 0,
      "Test": 100
    },
    "items": [
      {
```

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```

        "ItemId": 42,
        "Code": "ND0087",
        "Description": "G6PD quantitative control kit (Kit/10 pairs)",
        "Strength": "",
        "Unit": "Pair",
        "StockStart": 0,
        "StockIn": 0,
        "Total": 0,
        "StockOut": 0,
        "Adjustment": 0,
        "AdjustmentDetail": [],
        "Balance": 0,
        "Estimate": "0",
        "AMC": ".000000",
        "Expire": "",
        "ExpireDetail": [],
        "Note": "",
        "Request": "",
        "Offer": "",
        "Receive": "",
        "Status": "",
        "Comment": "",
        "CommentDate": "",
        "isChecked": 0,
        "Rec_ID": 294863,
        "isNew": 0,
        "MOS": "NA"
    },
    {
        "ItemId": 43,
        "Code": "ND0084",
        "Description": "G6PD quantitative test device (Kit/ 25 tests)",
        "Strength": "",
        "Unit": "Test",
        "StockStart": 0,
        "StockIn": 0,
        "Total": 0,
        "StockOut": 0,
        "Adjustment": 0,
        "AdjustmentDetail": [],
        "Balance": 0,
        "Estimate": "0",
        "AMC": ".000000",
        "Expire": "",
        "ExpireDetail": [],
        "Note": "",
        "Request": "",
        "Offer": "",
        "Receive": "",
        "Status": "",
        "Comment": "",
        "CommentDate": "",
        "isChecked": 0,
        "Rec_ID": 294864,
        "isNew": 0,
        "MOS": "NA"
    }

```

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```

    },
    {
      "ItemId": 44,
      "Code": "ND0082",
      "Description": "Rapid Diagnostic Test (Kit/10 tests)",
      "Strength": "",
      "Unit": "Test",
      "StockStart": 0,
      "StockIn": "",
      "Total": "",
      "StockOut": "",
      "Adjustment": "",
      "AdjustmentDetail": [],
      "Balance": 0,
      "Estimate": "NA",
      "AMC": ".000000",
      "Expire": "",
      "ExpireDetail": [],
      "Note": "",
      "Request": "",
      "Offer": "",
      "Receive": "",
      "Status": "",
      "Comment": "",
      "CommentDate": "",
      "isChecked": 0,
      "Rec_ID": "",
      "isNew": 0,
      "MOS": "NA"
    },
    {
      "ItemId": 34,
      "Code": "ND0150",
      "Description": "Quinine sulfate",
      "Strength": "300mg",
      "Unit": "Tablet",
      "StockStart": 0,
      "StockIn": 0,
      "Total": 0,
      "StockOut": 0,
      "Adjustment": 0,
      "AdjustmentDetail": [],
      "Balance": 0,
      "Estimate": "0",
      "AMC": ".000000",
      "Expire": "",
      "ExpireDetail": [],
      "Note": "",
      "Request": "",
      "Offer": "",
      "Receive": "",
      "Status": "",
      "Comment": "",
      "CommentDate": "",
      "isChecked": 0,
      "Rec_ID": 294862,
    }
  ]
}

```

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```

        "isNew": 0,
        "MOS": "NA"
    },
    {
        "ItemId": 28,
        "Code": "ND0069",
        "Description": "Artesunate + Mefloquine",
        "Strength": "100mg + 200mg",
        "Unit": "Box / 3 Tablets",
        "StockStart": 0,
        "StockIn": 0,
        "Total": 0,
        "StockOut": 0,
        "Adjustment": 0,
        "AdjustmentDetail": [],
        "Balance": 0,
        "Estimate": "0",
        "AMC": ".000000",
        "Expire": "",
        "ExpireDetail": [],
        "Note": "",
        "Request": "",
        "Offer": "",
        "Receive": "",
        "Status": "",
        "Comment": "",
        "CommentDate": "",
        "isChecked": 0,
        "Rec_ID": 294865,
        "isNew": 0,
        "MOS": "NA"
    },
    {
        "ItemId": 25,
        "Code": "ND0065",
        "Description": "Artesunate + Mefloquine",
        "Strength": "25mg + 50mg",
        "Unit": "Box / 6 Tablets",
        "StockStart": 0,
        "StockIn": 0,
        "Total": 0,
        "StockOut": 0,
        "Adjustment": 0,
        "AdjustmentDetail": [],
        "Balance": 0,
        "Estimate": "0",
        "AMC": ".000000",
        "Expire": "",
        "ExpireDetail": [],
        "Note": "",
        "Request": "",
        "Offer": "",
        "Receive": "",
        "Status": "",
        "Comment": "",
        "CommentDate": "",

```

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```

        "isChecked": 0,
        "Rec_ID": 294866,
        "isNew": 0,
        "MOS": "NA"
    },
    {
        "ItemId": 26,
        "Code": "ND0066",
        "Description": "Artesunate + Mefloquine",
        "Strength": "25mg + 50mg",
        "Unit": "Box / 3 Tablets",
        "StockStart": 0,
        "StockIn": 0,
        "Total": 0,
        "StockOut": 0,
        "Adjustment": 0,
        "AdjustmentDetail": [],
        "Balance": 0,
        "Estimate": "0",
        "AMC": ".000000",
        "Expire": "",
        "ExpireDetail": [],
        "Note": "",
        "Request": "",
        "Offer": "",
        "Receive": "",
        "Status": "",
        "Comment": "",
        "CommentDate": "",
        "isChecked": 0,
        "Rec_ID": 294867,
        "isNew": 0,
        "MOS": "NA"
    },
    {
        "ItemId": 27,
        "Code": "ND0067",
        "Description": "Artesunate + Mefloquine",
        "Strength": "100mg + 200mg",
        "Unit": "Box / 6 Tablets",
        "StockStart": 24,
        "StockIn": 20,
        "Total": 44,
        "StockOut": 24,
        "Adjustment": 0,
        "AdjustmentDetail": [],
        "Balance": 20,
        "Estimate": "-20",
        "AMC": "2.000000",
        "Expire": "2021-11-30",
        "ExpireDetail": [
            {
                "Date": "2021-11-30",
                "Qty": 20
            }
        ],
    },

```

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```

        "Note": "",
        "Request": "",
        "Offer": "",
        "Receive": "",
        "Status": "",
        "Comment": "",
        "CommentDate": "",
        "isChecked": 0,
        "Rec_ID": 294868,
        "isNew": 0,
        "MOS": 10
    },
    {
        "ItemId": 32,
        "Code": "ND0132",
        "Description": "Primaquine 7.5mg",
        "Strength": "7.5mg",
        "Unit": "Tablet",
        "StockStart": 30,
        "StockIn": 0,
        "Total": 30,
        "StockOut": 0,
        "Adjustment": 0,
        "AdjustmentDetail": [],
        "Balance": 30,
        "Estimate": "-26",
        "AMC": "2.000000",
        "Expire": "2021-09-30",
        "ExpireDetail": [
            {
                "Date": "2021-09-30",
                "Qty": 30
            }
        ],
        "Note": "",
        "Request": "",
        "Offer": "",
        "Receive": "",
        "Status": "",
        "Comment": "",
        "CommentDate": "",
        "isChecked": 0,
        "Rec_ID": 294870,
        "isNew": 0,
        "MOS": 15
    },
    {
        "ItemId": 13,
        "Code": "ND0080",
        "Description": "Rapid Dignostic Test (RDT)",
        "Strength": "",
        "Unit": "Kit / 25 Tests",
        "StockStart": 6,
        "StockIn": 3,
        "Total": 9,
        "StockOut": 6,

```

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```

        "Adjustment": 0,
        "AdjustmentDetail": [],
        "Balance": 3,
        "Estimate": "7",
        "AMC": "6.333333",
        "Expire": "2022-07-02",
        "ExpireDetail": [
            {
                "Date": "2022-07-02",
                "Qty": 3
            }
        ],
        "Note": "",
        "Request": 20,
        "Offer": "",
        "Receive": "",
        "Status": "Requested",
        "Comment": "",
        "CommentDate": "",
        "isChecked": 0,
        "Rec_ID": 294872,
        "isNew": 0,
        "MOS": 0.5
    },
    {
        "ItemId": 17,
        "Code": "ND0225",
        "Description": "LLIN",
        "Strength": "",
        "Unit": "Piece",
        "StockStart": 0,
        "StockIn": 0,
        "Total": 0,
        "StockOut": 0,
        "Adjustment": 0,
        "AdjustmentDetail": [],
        "Balance": 0,
        "Estimate": "0",
        "AMC": ".000000",
        "Expire": "",
        "ExpireDetail": [],
        "Note": "",
        "Request": "",
        "Offer": "",
        "Receive": "",
        "Status": "",
        "Comment": "",
        "CommentDate": "",
        "isChecked": 0,
        "Rec_ID": 294874,
        "isNew": 0,
        "MOS": "NA"
    },
    {
        "ItemId": 18,
        "Code": "ND0227",

```

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```
        "Description": "LLIHN",
        "Strength": "",
        "Unit": "Piece",
        "StockStart": 0,
        "StockIn": 0,
        "Total": 0,
        "StockOut": 0,
        "Adjustment": 0,
        "AdjustmentDetail": [],
        "Balance": 0,
        "Estimate": "0",
        "AMC": ".000000",
        "Expire": "",
        "ExpireDetail": [],
        "Note": "",
        "Request": "",
        "Offer": "",
        "Receive": "",
        "Status": "",
        "Comment": "",
        "CommentDate": "",
        "isChecked": 0,
        "Rec_ID": 294875,
        "isNew": 0,
        "MOS": "NA"
    }
}
]
```

API V1 OF CMI

9.1 Users

9.1.1 Authentication

POST /api-malaria-info/v1/Users/auth

User login

Parse as json:

```
{
  "user_name": "phdtest",
  "password": 123
}
```

Object

- user_name (string) –user name get from MIS User.
- password (string) –password get from MIS User.

Response as json:

```
{
  "Us": "PHDTest",
  "Role": "PHD",
  "Code_Prov": "14",
  "Code_OD": "",
  "Code_RG": "",
  "Activate": 1,
  "IsNotification": 1
}
```

9.1.2 Register token

POST /api-malaria-info/v1/Users/update_token

Insert/Update token

Parse as json:

```
{
  "Imei": "351910103270828901",
  "Username" : "bunthy",
  "Token": "gerate token from device"
}
```

9.1.3 Device logging

POST /api-malaria-info/v1/Users/log

To log device

Parse as json:

```
{
  "Imei" : "999",
  "UserName" : "odtest",
  "PhoneModel" : "Iphone 12",
  "OS" : "IOS14",
  "AppVersion" : "1.0",
  "Frequency" : "5",
  "HasUserAccount" : "1",
  "Lat" : "11111",
  "Long" : "22222",
  "City" : "Phnom penh",
  "StartDate" : "2020-10-10",
  "LastOnline" : "2020-10-10"
}
```

9.2 Summary

9.2.1 Daily case

GET /api-malaria-info/v1/Surveillance/case_daily

To get today case information

Response as json:

```
{
  "code": 200,
  "message": "success",
  "data": [
    {
      "PF": 0,
      "PV": 0,
      "Mix": 0,
      "Total": 0
    }
  ]
}
```

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```
    }  
  ]  
}
```

9.2.2 Weekly case

GET /api-malaria-info/v1/Surveillance/case_weekly

To get weekly case information

Response as json:

```
{  
  "code": 200,  
  "message": "success",  
  "data": [  
    {  
      "PF": 0,  
      "PV": 8,  
      "Mix": 0,  
      "Total": 8  
    }  
  ]  
}
```

9.2.3 Monthly case

GET /api-malaria-info/v1/Surveillance/case_monthly

To get monthly case information

Response as json:

```
{  
  "code": 200,  
  "message": "success",  
  "data": [  
    {  
      "PFThisYear": 1,  
      "PFLastYear": 59,  
      "PFChange": "-.983050847457",  
      "PVThisYear": 40,  
      "PVLastYear": 475,  
      "PVChange": "-.915789473684",  
      "MixThisYear": 0,  
      "MixLastYear": 0,  
      "MixChange": ".000000000000"  
    }  
  ]  
}
```


9.2.4 This year case

GET /api-malaria-info/v1/Surveillance/case_this_year

To get this year case information

Response as json:

```
{
  "code": 200,
  "message": "success",
  "data": [
    {
      "PF": 1,
      "PV": 53,
      "Mix": 0,
      "Total": 54
    }
  ]
}
```

9.2.5 Pv Radical cure (chart)

GET /api-malaria-info/v1/Surveillance/pv_radicalcure

To get Pv radical cure info

Query Parameters

- **year** (*int*) –year.
- **month_from** (*string*) –month begin.
- **month_to** (*string*) –month to.

Response as json:

```
{
  "code": 200,
  "message": "success",
  "data": [
    {
      "Pv": 56,
      "G6PDTest": 32,
      "G6PDNormal": 18,
      "Primaquine": 13
    }
  ]
}
```

9.2.6 HF report timely

GET /api-malaria-info/v1/Surveillance/hf_report_timely

To get report timely of health facility

Query Parameters

- **year** (*int*) –year, e.g: 2021, 2022, ...
- **month** (*string*) –month, e.g: 01, ...,12.

Response as json:

```
{
  "code": 200,
  "message": "success",
  "data": [
    {
      "Type": "Timely",
      "Month": "09",
      "Value": "36"
    },
    {
      "Type": "Received",
      "Month": "09",
      "Value": "815"
    }
  ]
}
```

9.2.7 VMW report timely

GET /api-malaria-info/v1/Surveillance/vmw_report_timely

To get report timely of VMW

Query Parameters

- **year** (*int*) –year, e.g: 2021, 2022, ...
- **month** (*string*) –month, e.g: 01, ...,12.

Response as json:

```
{
  "code": 200,
  "message": "success",
  "data": [
    {
      "Type": "Timely",
      "Month": "06",
      "Value": 42
    },
    {
      "Type": "Received",
      "Month": "06",
      "Value": 3311
    }
  ]
}
```

9.2.8 Annual Foci classification

GET /api-malaria-info/v1/Surveillance/foci

To get annual foci classification and monitoring

Response as json:

```
{
  "code": 200,
  "message": "success",
  "data": [
    {
      "Name_Prov_E": "Kampong Chhnang",
      "Name_Prov_K": "????????????",
      "Code_Prov_T": "04",
      "Name_OD_E": "Kampong Chhnang",
      "Name_OD_K": "????????????",
      "Code_OD_T": "0401",
      "Name_Facility_E": "Kbal Tuek",
      "Name_Facility_K": "????????",
      "Code_Facility_T": "040116",
      "Name_Vill_E": "Doung Sla",
      "Name_Vill_K": "????????",
      "Code_Vill_T": "0408040200",
      "Lat": 11.961394,
      "Long": 104.303273,
      "Year1": "orange",
      "Year2": "",
      "Year3": "",
      "Year4": "",
      "Status": "Active"
    },
    {
      "Name_Prov_E": "Kampong Chhnang",
      "Name_Prov_K": "????????????",
      "Code_Prov_T": "04",
      "Name_OD_E": "Kampong Tralach",
      "Name_OD_K": "????????????",
      "Code_OD_T": "0402",
      "Name_Facility_E": "Kampong Tralach Leu",
      "Name_Facility_K": "????????????",
      "Code_Facility_T": "040202",
      "Name_Vill_E": "Samretthi Chey",
      "Name_Vill_K": "????????????",
      "Code_Vill_T": "0405040400",
      "Lat": 11.910326,
      "Long": 104.778443,
      "Year1": "orange",
      "Year2": "green",
      "Year3": "",
      "Year4": "",
      "Status": "Residual"
    }
  ]
}
```

9.2.9 Health worker

GET /api-malaria-info/v1/HF/hf_worker

To get number of health facility, village, VMW, MMW, OD, province that is malaria target

Response as json:

```
{
  "code": 200,
  "message": "success",
  "data": [
    {
      "PopAtRisk": 9714485
    },
    {
      "Village": 10739
    },
    {
      "MMW": 269
    },
    {
      "VMW": 2560
    },
    {
      "HC": 874
    },
    {
      "OD": 55
    },
    {
      "Province": 21
    }
  ]
}
```

9.3 Dashboard

9.3.1 Number of malaria test and case (Bar chart)

GET /api-malaria-info/v1/Surveillance/malaria

To get number of test, Pv, Pf, Mix of each month in selected year

Query Parameters

- **Year** (*int*) –year of report, e.g: 2020,2021,...
- **province** (*string*) –code of province.
- **od** (*string*) –code of OD.

Response as json:

```
{
  "code": 200,
  "message": "success",
  "data": [
```

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```

{
  "Month": "01",
  "PF": 11,
  "PV": 49,
  "MIX": 1,
  "Positive": 61,
  "Test": 797
},
{
  "Month": "02",
  "PF": 16,
  "PV": 48,
  "MIX": 1,
  "Positive": 65,
  "Test": 1131
},
{
  "Month": "03",
  "PF": 16,
  "PV": 25,
  "MIX": 1,
  "Positive": 42,
  "Test": 1347
},
{
  "Month": "04",
  "PF": 17,
  "PV": 25,
  "MIX": 0,
  "Positive": 42,
  "Test": 1450
},
{
  "Month": "05",
  "PF": 26,
  "PV": 18,
  "MIX": 0,
  "Positive": 44,
  "Test": 1095
},
{
  "Month": "06",
  "PF": 77,
  "PV": 36,
  "MIX": 0,
  "Positive": 113,
  "Test": 1565
},
{
  "Month": "07",
  "PF": 37,
  "PV": 50,
  "MIX": 1,
  "Positive": 88,
  "Test": 2274
},

```

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```

{
  "Month": "08",
  "PF": 33,
  "PV": 41,
  "MIX": 0,
  "Positive": 74,
  "Test": 2152
},
{
  "Month": "09",
  "PF": 7,
  "PV": 35,
  "MIX": 0,
  "Positive": 42,
  "Test": 1352
},
{
  "Month": "10",
  "PF": 10,
  "PV": 37,
  "MIX": 0,
  "Positive": 47,
  "Test": 1215
},
{
  "Month": "11",
  "PF": 8,
  "PV": 27,
  "MIX": 0,
  "Positive": 35,
  "Test": 1143
},
{
  "Month": "12",
  "PF": 5,
  "PV": 18,
  "MIX": 0,
  "Positive": 23,
  "Test": 1221
}
]
}

```

9.3.2 Top 10 villages with Pf and Mix (Pie chart)

GET /api-malaria-info/v1/Surveillance/pf_mix
To get top 10 villages with Pf and Mix.

Query Parameters

- **Year** (*int*) –year of report, e.g: 2020,2021,...
- **province** (*string*) –code of province.
- **od** (*string*) –code of OD.
- **month_from** (*string*) –begin month.

```
{
  "code": 200,
  "message": "success",
  "data": [
    {
      "Name_Vill_K": "?????????",
      "Name_Vill_E": "Rumduol Thmei",
      "Name_Facility_K": "????????????????????????? ?????",
      "Name_Facility_E": "Chambak",
      "Name_OD_K": "?????????",
      "Name_OD_E": "Phnom Srouch",
      "PFMix": 61
    },
    {
      "Name_Vill_K": "????????",
      "Name_Vill_E": "Peam lvea",
      "Name_Facility_K": "????????????????????????????? ?????",
      "Name_Facility_E": "Chambak",
      "Name_OD_K": "?????????",
      "Name_OD_E": "Phnom Srouch",
      "PFMix": 37
    },
    {
      "Name_Vill_K": "?????????",
      "Name_Vill_E": "Krang Chek",
      "Name_Facility_K": "????????????????????????????? ?????",
      "Name_Facility_E": "Chambak",
      "Name_OD_K": "?????????",
      "Name_OD_E": "Phnom Srouch",
      "PFMix": 18
    },
    {
      "Name_Vill_K": "????????????_???????????? (M)",
      "Name_Vill_E": "Banteay Roka_Kirisenchey (M)",
      "Name_Facility_K": "????????????????????????????? ?????",
      "Name_Facility_E": "Chambak",
      "Name_OD_K": "?????????",
      "Name_OD_E": "Phnom Srouch",
      "PFMix": 17
    },
    {
      "Name_Vill_K": "????????????",
      "Name_Vill_E": "Chonlong Mlu",
      "Name_Facility_K": "????????????",
      "Name_Facility_E": "Samroung romduol",
      "Name_OD_K": "?????????",
      "Name_OD_E": "Phnom Srouch",
      "PFMix": 15
    },
    {
      "Name_Vill_K": "????????_???????? (M)",
      "Name_Vill_E": "Peam Lvea_Sre Doung (M)",
      "Name_Facility_K": "????????????????????????????? ?????",
      "Name_Facility_E": "Chambak",
    }
  ]
}
```

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```

    "Name_OD_K": "XXXXXXXXXX",
    "Name_OD_E": "Phnom Srouch",
    "PFMix": 13
},
{
    "Name_Vill_K": "XXX_XXXXXXXXXXXXX (M)",
    "Name_Vill_E": "Doung_Kraong Meanchey (M)",
    "Name_Facility_K": "XXXXXXXXXXXXXXXXXXXXX XXXXX",
    "Name_Facility_E": "Chambak",
    "Name_OD_K": "XXXXXXXXXX",
    "Name_OD_E": "Phnom Srouch",
    "PFMix": 12
},
{
    "Name_Vill_K": "XXX",
    "Name_Vill_E": "Doung",
    "Name_Facility_K": "XXXXXXXXXXXXXXXXXXXXX XXXXX",
    "Name_Facility_E": "Chambak",
    "Name_OD_K": "XXXXXXXXXX",
    "Name_OD_E": "Phnom Srouch",
    "PFMix": 10
},
{
    "Name_Vill_K": "XXXXXXXXXXXX",
    "Name_Vill_E": "Krang Krouch",
    "Name_Facility_K": "XXXXXXXXXXXXXXXXXXXXX XXXXX",
    "Name_Facility_E": "Chambak",
    "Name_OD_K": "XXXXXXXXXX",
    "Name_OD_E": "Phnom Srouch",
    "PFMix": 8
},
{
    "Name_Vill_K": "XXXXXXX",
    "Name_Vill_E": "Kandal",
    "Name_Facility_K": "XXXXXXXXXXXX",
    "Name_Facility_E": "Samroung romduol",
    "Name_OD_K": "XXXXXXXXXX",
    "Name_OD_E": "Phnom Srouch",
    "PFMix": 7
},
{
    "Name_Vill_K": "XXXXXXXXXXXXXXXXXXXXX (203 XXXX)",
    "Name_Vill_E": "Patient form other village (203 Village)",
    "Name_Facility_K": "XXXXXXXXXXXXXXXXXXXX",
    "Name_Facility_E": "Patient form other HF",
    "Name_OD_K": "XXXXXXXXXXXXXXXXXXXXX",
    "Name_OD_E": "Patient form other OD",
    "PFMix": 66
}
]
}
```


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```

    "Mix": 1,
    "Total": 34,
    "Pop": 434,
    "Incident": "78.341013824000"
  },
  {
    "Name_Vill_K": "?????????",
    "Name_Vill_E": "Krang Boeng",
    "Name_Facility_K": "?????????",
    "Name_Facility_E": "Samroung romduol",
    "Name_OD_K": "?????????",
    "Name_OD_E": "Phnom Srouch",
    "PF": 4,
    "PV": 18,
    "Mix": 0,
    "Total": 22,
    "Pop": 645,
    "Incident": "34.108527131000"
  },
  {
    "Name_Vill_K": "?????????",
    "Name_Vill_E": "Srae Chrov",
    "Name_Facility_K": "?????????",
    "Name_Facility_E": "Samroung romduol",
    "Name_OD_K": "?????????",
    "Name_OD_E": "Phnom Srouch",
    "PF": 3,
    "PV": 14,
    "Mix": 0,
    "Total": 17,
    "Pop": 735,
    "Incident": "23.129251700000"
  },
  {
    "Name_Vill_K": "?????????",
    "Name_Vill_E": "Chonlong Mlu",
    "Name_Facility_K": "?????????",
    "Name_Facility_E": "Samroung romduol",
    "Name_OD_K": "?????????",
    "Name_OD_E": "Phnom Srouch",
    "PF": 14,
    "PV": 2,
    "Mix": 0,
    "Total": 16,
    "Pop": 1016,
    "Incident": "15.748031496000"
  },
  {
    "Name_Vill_K": "????? ?????????? (M) ",
    "Name_Vill_E": "Dak Por_Toap Mreak (M) ",
    "Name_Facility_K": "????????????????????????????????????????",
    "Name_Facility_E": "Chambak",
    "Name_OD_K": "?????????",
    "Name_OD_E": "Phnom Srouch",
    "PF": 1,
    "PV": 14,

```

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```
{
  "Mix": 0,
  "Total": 15,
  "Pop": 340,
  "Incident": "44.117647058000"
},
{
  "Name_Vill_K": "២២២",
  "Name_Vill_E": "Doung",
  "Name_Facility_K": "បណ្ណាល័យសាលាឃុំដង្កោ ២២២២",
  "Name_Facility_E": "Chambak",
  "Name_OD_K": "២២២២២២២២",
  "Name_OD_E": "Phnom Srouch",
  "PF": 9,
  "PV": 4,
  "Mix": 1,
  "Total": 14,
  "Pop": 869,
  "Incident": "16.110471806000"
},
{
  "Name_Vill_K": "២២២២២២២២",
  "Name_Vill_E": "Prey Kahiech",
  "Name_Facility_K": "បណ្ណាល័យសាលាឃុំដង្កោ ២២២២",
  "Name_Facility_E": "Chambak",
  "Name_OD_K": "២២២២២២២២",
  "Name_OD_E": "Phnom Srouch",
  "PF": 4,
  "PV": 9,
  "Mix": 1,
  "Total": 14,
  "Pop": 704,
  "Incident": "19.886363636000"
},
{
  "Name_Vill_K": "២២២២២២២២",
  "Name_Vill_E": "Krang Thum",
  "Name_Facility_K": "បណ្ណាល័យសាលាឃុំដង្កោ",
  "Name_Facility_E": "Samroung romduol",
  "Name_OD_K": "២២២២២២២២",
  "Name_OD_E": "Phnom Srouch",
  "PF": 1,
  "PV": 12,
  "Mix": 0,
  "Total": 13,
  "Pop": 1054,
  "Incident": "12.333965844000"
}
]
```

9.3.4 Stock out

GET /api-malaria-info/v1/Surveillance/stock_out
To get HC that has stock out.

Query Parameters

- **Year** (*int*) –year of report, e.g: 2020,2021,...
- **month** (*string*) –month of report, e.g: 01, 02, ..., 12
- **province** (*string*) –code of province.
- **od** (*string*) –code of OD.
- **user** (*string*) –user name get form MIS.

Response as json:

```
{
  "code": 200,
  "message": "success",
  "data": [
    {
      "Name_Prov_K": "????????",
      "Name_Prov_E": "Preah Sihanouk",
      "Name_Facility_K": "????????? ??????????",
      "Name_Facility_E": "Preah Sihanouk RH",
      "Name_OD_K": "????????",
      "Name_OD_E": "Preah Sihanouk",
      "Description": "Rapid Dignostic Test (RDT)",
      "Unit": "Kit / 25 Tests"
    },
    {
      "Name_Prov_K": "????????",
      "Name_Prov_E": "Preah Sihanouk",
      "Name_Facility_K": "????????",
      "Name_Facility_E": "Steung Hav",
      "Name_OD_K": "????????",
      "Name_OD_E": "Preah Sihanouk",
      "Description": "Rapid Dignostic Test (RDT)",
      "Unit": "Kit / 25 Tests"
    },
    {
      "Name_Prov_K": "????????",
      "Name_Prov_E": "Preah Sihanouk",
      "Name_Facility_K": "????????",
      "Name_Facility_E": "Tuek L'ak",
      "Name_OD_K": "????????",
      "Name_OD_E": "Preah Sihanouk",
      "Description": "Rapid Dignostic Test (RDT)",
      "Unit": "Kit / 25 Tests"
    }
  ]
}
```

9.3.5 Malaria Hotspot

GET /api-malaria-info/v1/Surveillance/malaria_hotspot
To get village that is in high rank of malaria cases.

Query Parameters

- **year** (*int*) –year of report, e.g: 2020,2021,...
- **province** (*string*) –code of province.
- **od** (*string*) –code of OD.
- **month_from** (*string*) –begin month, e.g: 01, 02, ..., 12.
- **month_to** (*string*) –end of month, e.g: 01, 02, ..., 12.

Response as json:

```
{
  "code": 200,
  "message": "success",
  "data": [
    {
      "Name_Vill_E": "Kbal Teahean",
      "Name_Vill_K": "ក្បាលត្នោត",
      "Name_Facility_E": "Chheu Tom",
      "Name_Facility_K": "ចេរ៉ូតូ",
      "Code_Vill_T": "1503042100",
      "Name_OD_E": "Krakor",
      "Name_OD_K": "ក្រាករ",
      "Lat": 12.255001,
      "long": 104.161842,
      "Total": 757,
      "Rank": 35
    },
    {
      "Name_Vill_E": "Bam Nak",
      "Name_Vill_K": "ប៉ាណាក់",
      "Name_Facility_E": "Chheu Tom",
      "Name_Facility_K": "ចេរ៉ូតូ",
      "Code_Vill_T": "1503041900",
      "Name_OD_E": "Krakor",
      "Name_OD_K": "ក្រាករ",
      "Lat": 12.28574,
      "long": 104.180935,
      "Total": 670,
      "Rank": 33
    },
    {
      "Name_Vill_E": "Ksetr Bourei",
      "Name_Vill_K": "ក្រេត្របួរើ",
      "Name_Facility_E": "Phnom Kravanh",
      "Name_Facility_K": "ភ្នំក្រវាញ",
      "Code_Vill_T": "1504060300",
      "Name_OD_E": "Kravanh",
      "Name_OD_K": "ក្រវាញ",
      "Lat": 12.04307,
      "long": 103.828709,
      "Total": 536,

```

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```

    "Rank": 26
  },
  {
    "Name_Vill_E": "Po Meas",
    "Name_Vill_K": "????????",
    "Name_Facility_E": "Trapeang Cho",
    "Name_Facility_K": "????????",
    "Code_Vill_T": "0504032600",
    "Name_OD_E": "Kampong Speu",
    "Name_OD_K": "????????",
    "Lat": 11.8267223,
    "long": 104.130547,
    "Total": 351,
    "Rank": 25
  }
]
}

```

9.3.6 Map of HC and Village

GET /api-malaria-info/v1/Map/village_hf

To get village that is in high rank of malaria cases.

Query Parameters

- **code_province** (*string*) –code of province.
- **code_od** (*string*) –code of OD.
- **code_hf** (*string*) –code of health facility.

Response as json:

```

{
  "code": 200,
  "message": "success",
  "data": [
    {
      "Code_Vill_T": "0105030400",
      "Name_Vill_K": "?????",
      "Name_Vill_E": "Yeay At",
      "Code_Facility_T": "010205",
      "Name_Facility_K": "????????",
      "Name_Facility_E": "Nimith",
      "Code_OD_T": "0102",
      "Name_OD_K": "????????",
      "Name_OD_E": "Poipet",
      "Code_Prov_T": "01",
      "Name_Prov_K": "????????????",
      "Name_Prov_E": "Banteay Meanchey",
      "Lat": 13.546843,
      "Long": 102.758938,
      "Type": "Village"
    },
    {
      "Code_Vill_T": "0105030500",

```

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```

        "Name_Vill_K": "????????",
        "Name_Vill_E": "Kok Kanang",
        "Code_Facility_T": "010205",
        "Name_Facility_K": "????????",
        "Name_Facility_E": "Nimith",
        "Code_OD_T": "0102",
        "Name_OD_K": "????????",
        "Name_OD_E": "Poipet",
        "Code_Prov_T": "01",
        "Name_Prov_K": "????????????",
        "Name_Prov_E": "Banteay Meanchey",
        "Lat": 13.566657,
        "Long": 102.733455,
        "Type": "Village"
    },
    {
        "Code_Vill_T": "0105030600",
        "Name_Vill_K": "????????",
        "Name_Vill_E": "Thmat Pornng",
        "Code_Facility_T": "010205",
        "Name_Facility_K": "????????",
        "Name_Facility_E": "Nimith",
        "Code_OD_T": "0102",
        "Name_OD_K": "????????",
        "Name_OD_E": "Poipet",
        "Code_Prov_T": "01",
        "Name_Prov_K": "????????????",
        "Name_Prov_E": "Banteay Meanchey",
        "Lat": 13.572624,
        "Long": 102.716994,
        "Type": "Village"
    },
    {
        "Code_Vill_T": "0105090200",
        "Name_Vill_K": "????????",
        "Name_Vill_E": "Chouk Chey",
        "Code_Facility_T": "010218",
        "Name_Facility_K": "????????",
        "Name_Facility_E": "Seila Khmer",
        "Code_OD_T": "0102",
        "Name_OD_K": "????????",
        "Name_OD_E": "Poipet",
        "Code_Prov_T": "01",
        "Name_Prov_K": "????????????",
        "Name_Prov_E": "Banteay Meanchey",
        "Lat": 13.760794,
        "Long": 102.701674,
        "Type": "Village"
    }
]
}

```

9.3.7 Map of foci

POST /api-malaria-info/v1/Foci/list

To get foci village map

Query Parameters

- **user** (*string*) –user name.

Response as json:

```
{
  "code": 200,
  "message": "success",
  "data": [
    {
      "Name_Prov_E": "Kampong Chhnang",
      "Name_OD_E": "Kampong Chhnang",
      "Name_Facility_E": "Kbal Tuek",
      "Name_Vill_E": "Doung Sla",
      "Lat": 11.961394,
      "Long": 104.303273,
      "Year1": "orange",
      "Year2": "",
      "Year3": "",
      "Year4": "",
      "Status": "Active"
    },
    {
      "Name_Prov_E": "Kampong Chhnang",
      "Name_OD_E": "Kampong Tralach",
      "Name_Facility_E": "Kampong Tralach Leu",
      "Name_Vill_E": "Samretthi Chey",
      "Lat": 11.910326,
      "Long": 104.778443,
      "Year1": "orange",
      "Year2": "green",
      "Year3": "",
      "Year4": "",
      "Status": "Residual"
    }
  ]
}
```

9.4 Contact

POST /api-malaria-info/v1/Contact/list

To get contact list

Query Parameters

- **type** (*string*) –type of contact, CNM/Partner/PHD/OD/HC/VMW.
- **user** (*string*) –user name.

Response as json:


```

{
  "code": 200,
  "message": "success",
  "data": [
    {
      "Rec_ID": 3909,
      "Name": "Mr. Chhim Chon",
      "Phone": "077 918 883",
      "Email": "",
      "Position": "Officer",
      "UnitName": "Accounting"
    },
    {
      "Rec_ID": 3910,
      "Name": "Mr. Yeouk Soklin",
      "Phone": "012 311 713",
      "Email": "",
      "Position": "Officer",
      "UnitName": "Accounting"
    },
    {
      "Rec_ID": 3975,
      "Name": "Ms. Arm Monyborra",
      "Phone": "012 247 806",
      "Email": "",
      "Position": "Contract Staff",
      "UnitName": "Accounting"
    },
    {
      "Rec_ID": 3895,
      "Name": "Ma. Chea Monthavy",
      "Phone": "012 779 353",
      "Email": "",
      "Position": "Deputy Chief of Administration Office",
      "UnitName": "Administration"
    }
  ]
}

```

9.5 Notification

GET /api-malaria-info/v1/Notification/get_list

To get list of notification

Query Parameters

- **imei** (*string*) –Imei of device.
- **type** (*string*) –CASE/STOCK.

Response as json:

```

{
  "code": 200,
  "message": "success",
  "data": [

```

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```

{
  "Rec_ID": 639506,
  "Imei": "866222031369872",
  "Message": "000000000000 test 00000000 0000 3000000 0000000000000000000000_
↪096 0000000000000000 Pv 0000000000000000 0000000000000000 0000000000000000000000_
↪000000000000 00000000 VMW0000000000000000 000000000000 0968888886 0 ",
  "Type": "case",
  "InitTime": "2021-12-19 13:48:33.293"
},
{
  "Rec_ID": 639503,
  "Imei": "866222031369872",
  "Message": "000000000000 hhh 00000000 0000 3000000 0000000000000000000000_
↪096 0000000000000000 Pv 0000000000 0000000000000000 0000000000000000000000_
↪000000000000 00000000 HC000 0000000000000000 012917012 0 ",
  "Type": "case",
  "InitTime": "2021-12-19 13:30:19.527"
}
]
}

```

API V1 OF QA

10.1 Users

10.1.1 Authentication

POST /api-qa/v1/Users/auth

User login

Parse as json:

```
{
  "HC_Code": "123456",
  "Imei": "1234567890"
}
```

Response as json:

```
{
  "Role": "HC",
  "Code_Prov_T": "01",
  "Name_Prov_E": "Banteay Meanchey",
  "Name_Prov_K": "បន្ទាយមានជ័យ",
  "Code_OD_T": "0102",
  "Name_OD_E": "Poipet",
  "Name_OD_K": "ប៉ៃប៉េត",
  "Code_Facility_T": "010202",
  "Name_Facility_E": "Poipet I",
  "Name_Facility_K": "ប៉ៃប៉េតទី១",
  "message": "ok"
}
```

10.2 Place

POST /api-qa/v1/Place/all

Get place

Response as json:

```
{
  "province": [
```

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```

{
  "Code_Prov_T": "01",
  "Name_Prov_E": "Banteay Meanchey",
  "Name_Prov_K": "?????????????"
},
{
  "Code_Prov_T": "02",
  "Name_Prov_E": "Battambang",
  "Name_Prov_K": "?????????"
}
],
"od": [
  {
    "Code_Prov_T": "01",
    "Code_OD_T": "0102",
    "Name_OD_E": "Poipet",
    "Name_OD_K": "?????????"
  },
  {
    "Code_Prov_T": "01",
    "Code_OD_T": "0103",
    "Name_OD_E": "Preah Net Preah",
    "Name_OD_K": "?????????????????"
  }
],
"hc": [
  {
    "Code_OD_T": "0102",
    "Code_Facility_T": "010202",
    "Name_Facility_E": "Poipet I",
    "Name_Facility_K": "?????????"
  },
  {
    "Code_OD_T": "0102",
    "Code_Facility_T": "010203",
    "Name_Facility_E": "Ou Russei",
    "Name_Facility_K": "?????????"
  }
],
"village": [
  {
    "Code_Facility_T": "010313",
    "Code_Vill_T": "0103010100",
    "Name_Vill_E": "Rongvean",
    "Name_Vill_K": "???????"
  },
  {
    "Code_Facility_T": "010313",
    "Code_Vill_T": "0103011000",
    "Name_Vill_E": "Samraong",
    "Name_Vill_K": "?????"
  }
]
}

```

10.3 VMW' s question

10.3.1 List of VMW' s question

POST /api-qa/v1/VMW/list

Get list of questions of VMW

Parse as json:

```
{
  "Code_Prov_T": "15",
  "Code_OD_T": "1503",
  "Code_Facility_T": "150301",
  "Code_Vill_T": ""
}
```

Response as json:

```
[
  {
    "Rec_ID": 387,
    "Code_Prov_T": "15",
    "Name_Prov_E": "Pursat",
    "Name_Prov_K": "ប្រសាត",
    "Code_OD_T": "1503",
    "Name_OD_E": "Kravanh",
    "Name_OD_K": "ក្រវាង",
    "Code_Facility_T": "150301",
    "Name_Facility_E": "Phnom Kravanh",
    "Name_Facility_K": "ភ្នំក្រវាង",
    "Code_Vill_T": "1504020400",
    "Name_Vill_E": "Sbov Rik",
    "Name_Vill_K": "ស្រីរីក",
    "VMWType": "VMW",
    "VMWName": "២២២ ២២២",
    "VisitDate": "2021-08-09",
    "VisitorName": "២២២២ ២២២២",
    "Position": "២២២២២២២២",
    "WorkPlace": "HC",
    "TPR": 6,
    "TotalScore": 99.06,
    "PreviousScore": null,
    "NextVisit": "២២២២២២២២២២២២",
    "Priority": 8,
    "LowestSectionScore": null,
    "Section2": 34.25,
    "Section2Priority": 8,
    "Section3": 34.8,
    "Section3Priority": 8,
    "Section4": 15,
    "Section4Priority": 8,
    "Section5": 5,
    "Section5Priority": 8,
    "Section6": 5.01,
    "Section6Priority": 8,
    "Section7": 5,
  }
]
```

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```

    "Section7Priority": 8
  },
  {
    "Rec_ID": null,
    "Code_Prov_T": "15",
    "Name_Prov_E": "Pursat",
    "Name_Prov_K": "០០០០០០០០០",
    "Code_OD_T": "1503",
    "Name_OD_E": "Kravanh",
    "Name_OD_K": "០០០០០០",
    "Code_Facility_T": "150301",
    "Name_Facility_E": "Phnom Kravanh",
    "Name_Facility_K": "០០០០០០០០០០",
    "Code_Vill_T": "1504020501",
    "Name_Vill_E": "Meart",
    "Name_Vill_K": "០០០០",
    "VMWType": "VMW",
    "VMWName": null,
    "VisitDate": null,
    "VisitorName": null,
    "Position": null,
    "WorkPlace": null,
    "TPR": null,
    "TotalScore": null,
    "PreviousScore": null,
    "NextVisit": "Never access",
    "Priority": 5,
    "LowestSectionScore": null,
    "Section2": null,
    "Section2Priority": 5,
    "Section3": null,
    "Section3Priority": 5,
    "Section4": null,
    "Section4Priority": 5,
    "Section5": null,
    "Section5Priority": 5,
    "Section6": null,
    "Section6Priority": 5,
    "Section7": null,
    "Section7Priority": 5
  }
]

```

10.3.2 Detail of question

POST /api-qa/v1/VMW/detail

Get detail info of question.

Parse as json:

```

{
  "Rec_ID": 387
}

```

Response as json:

```

{
  "Rec_ID": 387,
  "Code_Vill_T": "1504020400",
  "VMWName": "??? ???",
  "VisitDate": "2021-08-09",
  "VisitorName": "????? ?????",
  "Position": "?????????",
  "WorkPlace": "HC",
  "TotalScore": 99.06,
  "TPR": 6,
  "Summary": {
    "Current": {
      "Section2": 34.25,
      "Section3": 34.8,
      "Section4": 15,
      "Section5": 5,
      "Section6": 5.01,
      "Section7": 5
    },
    "Previous": {
      "Section2": 0,
      "Section3": 0,
      "Section4": 0,
      "Section5": 0,
      "Section6": 0,
      "Section7": 0
    }
  },
  "Detail": [
    {
      "Question": "0.1",
      "Answer": "≤ 6 Months",
      "Score": 0
    },
    {
      "Question": "0.2",
      "Answer": "Male",
      "Score": 0
    },
    {
      "Question": "1",
      "Answer": "",
      "Score": 1
    },
    {
      "Question": "1.1",
      "Answer": "Yes",
      "Score": 0.25
    },
    {
      "Question": "1.2",
      "Answer": "Yes",
      "Score": 0.25
    },
    {
      "Question": "1.3",
      "Answer": "Yes",

```

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```

        "Score": 0.25
    },
    {
        "Question": "1.4",
        "Answer": "Yes",
        "Score": 0.25
    },
    {
        "Question": "2",
        "Answer": "Yes",
        "Score": 2
    },
    {
        "Question": "3",
        "Answer": "",
        "Score": 3
    },
    {
        "Question": "3.1",
        "Answer": "Yes",
        "Score": 0.5
    },
    {
        "Question": "3.2",
        "Answer": "Yes",
        "Score": 1.25
    },
    {
        "Question": "3.3",
        "Answer": "Yes",
        "Score": 1.25
    },
    {
        "Question": "4",
        "Answer": "Loss of consciousness/coma, Little urine, Convulsion",
        "Score": 3
    },
    {
        "Question": "5",
        "Answer": "Fever, Headache, Chills",
        "Score": 3
    },
    {
        "Question": "6",
        "Answer": "",
        "Score": 6
    },
    {
        "Question": "6.1",
        "Answer": "Yes",
        "Score": 1
    },
    {
        "Question": "6.2",
        "Answer": "Yes",
        "Score": 1
    }

```

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```

    },
    {
      "Question": "6.3",
      "Answer": "Yes",
      "Score": 1
    },
    {
      "Question": "6.4",
      "Answer": "Yes",
      "Score": 1
    },
    {
      "Question": "6.5",
      "Answer": "Yes",
      "Score": 1
    },
    {
      "Question": "6.6",
      "Answer": "Yes",
      "Score": 1
    },
    {
      "Question": "7",
      "Answer": "Health Center,Referral Hospital",
      "Score": 3
    },
    {
      "Question": "8",
      "Answer": "Conduct blood test (RDT)",
      "Score": 1
    },
    {
      "Question": "9",
      "Answer": "",
      "Score": 12.25
    },
    {
      "Question": "9.1",
      "Answer": "Yes",
      "Score": 0.5
    },
    {
      "Question": "9.2",
      "Answer": "Yes",
      "Score": 1.25
    },
    {
      "Question": "9.3",
      "Answer": "Yes",
      "Score": 0.5
    },
    {
      "Question": "9.4",
      "Answer": "Yes",
      "Score": 0.5
    },
  },

```

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```

{
  "Question": "9.5",
  "Answer": "Yes",
  "Score": 0.5
},
{
  "Question": "9.6",
  "Answer": "Yes",
  "Score": 1.25
},
{
  "Question": "9.7",
  "Answer": "Yes",
  "Score": 1.25
},
{
  "Question": "9.8",
  "Answer": "Yes",
  "Score": 1
},
{
  "Question": "9.9",
  "Answer": "Yes",
  "Score": 1.25
},
{
  "Question": "9.10",
  "Answer": "Yes",
  "Score": 1.25
},
{
  "Question": "9.11",
  "Answer": "Yes",
  "Score": 1.25
},
{
  "Question": "9.12",
  "Answer": "Yes",
  "Score": 1
},
{
  "Question": "9.13",
  "Answer": "Yes",
  "Score": 0.75
},
{
  "Question": "10",
  "Answer": "ACT or ACT+PQ",
  "Score": 3.5
},
{
  "Question": "11",
  "Answer": "Weight",
  "Score": 3.5
},
{

```

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```

    "Question": "12",
    "Answer": "",
    "Score": 19.8
  },
  {
    "Question": "12.1",
    "Answer": "Yes",
    "Score": 3.3
  },
  {
    "Question": "12.2",
    "Answer": "Yes",
    "Score": 3.3
  },
  {
    "Question": "12.3",
    "Answer": "Yes",
    "Score": 3.3
  },
  {
    "Question": "12.4",
    "Answer": "Yes",
    "Score": 3.3
  },
  {
    "Question": "12.5",
    "Answer": "Yes",
    "Score": 3.3
  },
  {
    "Question": "12.6",
    "Answer": "Yes",
    "Score": 3.3
  },
  {
    "Question": "13",
    "Answer": "",
    "Score": 2
  },
  {
    "Question": "13.1",
    "Answer": "Yes",
    "Score": 1
  },
  {
    "Question": "13.2",
    "Answer": "Yes",
    "Score": 1
  },
  {
    "Question": "14",
    "Answer": "Yes",
    "Score": 3
  },
  {
    "Question": "15",

```

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```

        "Answer": "",
        "Score": 3
    },
    {
        "Question": "15.1",
        "Answer": "Yes",
        "Score": 1
    },
    {
        "Question": "15.2",
        "Answer": "Yes",
        "Score": 1
    },
    {
        "Question": "15.3",
        "Answer": "Yes",
        "Score": 1
    },
    {
        "Question": "16",
        "Answer": "",
        "Score": 3
    },
    {
        "Question": "16.1",
        "Answer": "Yes",
        "Score": 1
    },
    {
        "Question": "16.2",
        "Answer": "Yes",
        "Score": 1
    },
    {
        "Question": "16.3",
        "Answer": "Yes",
        "Score": 1
    },
    {
        "Question": "17",
        "Answer": "",
        "Score": 6
    },
    {
        "Question": "17.1",
        "Answer": "Yes",
        "Score": 1.2
    },
    {
        "Question": "17.2",
        "Answer": "Yes",
        "Score": 1.2
    },
    {
        "Question": "17.3",
        "Answer": "Yes",

```

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```

        "Score": 1.2
    },
    {
        "Question": "17.4",
        "Answer": "Yes",
        "Score": 1.2
    },
    {
        "Question": "17.5",
        "Answer": "Yes",
        "Score": 1.2
    },
    {
        "Question": "18",
        "Answer": "",
        "Score": 3
    },
    {
        "Question": "18.1",
        "Answer": "Yes",
        "Score": 1
    },
    {
        "Question": "18.2",
        "Answer": "Yes",
        "Score": 1
    },
    {
        "Question": "18.3",
        "Answer": "Yes",
        "Score": 1
    },
    {
        "Question": "19",
        "Answer": "",
        "Score": 3
    },
    {
        "Question": "19.1",
        "Answer": "Yes",
        "Score": 1
    },
    {
        "Question": "19.2",
        "Answer": "Yes",
        "Score": 1
    },
    {
        "Question": "19.3",
        "Answer": "Yes",
        "Score": 1
    },
    {
        "Question": "20",
        "Answer": "",
        "Score": 2.4799998
    }

```

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```

    },
    {
      "Question": "20.1",
      "Answer": "Yes",
      "Score": 0.31
    },
    {
      "Question": "20.2",
      "Answer": "Yes",
      "Score": 0.31
    },
    {
      "Question": "20.3",
      "Answer": "Yes",
      "Score": 0.31
    },
    {
      "Question": "20.4",
      "Answer": "Yes",
      "Score": 0.31
    },
    {
      "Question": "20.5",
      "Answer": "Yes",
      "Score": 0.31
    },
    {
      "Question": "20.6",
      "Answer": "Yes",
      "Score": 0.31
    },
    {
      "Question": "20.7",
      "Answer": "Yes",
      "Score": 0
    },
    {
      "Question": "20.8",
      "Answer": "Yes",
      "Score": 0.31
    },
    {
      "Question": "20.9",
      "Answer": "Yes",
      "Score": 0.31
    },
    {
      "Question": "21",
      "Answer": "",
      "Score": 2.52
    },
    {
      "Question": "21.1",
      "Answer": "18",
      "Score": 0
    },
  },

```

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```

{
  "Question": "21.2",
  "Answer": "No",
  "Score": 0.42
},
{
  "Question": "21.3",
  "Answer": "No",
  "Score": 0.42
},
{
  "Question": "21.4",
  "Answer": "Yes",
  "Score": 0.42
},
{
  "Question": "21.5",
  "Answer": "50",
  "Score": 0
},
{
  "Question": "21.6",
  "Answer": "No",
  "Score": 0.42
},
{
  "Question": "21.7",
  "Answer": "No",
  "Score": 0.42
},
{
  "Question": "21.8",
  "Answer": "Yes",
  "Score": 0.42
},
{
  "Question": "22",
  "Answer": "",
  "Score": 5.0099998
},
{
  "Question": "22.1",
  "Answer": "Yes",
  "Score": 1.67
},
{
  "Question": "22.2",
  "Answer": "Yes",
  "Score": 1.67
},
{
  "Question": "22.3",
  "Answer": "Yes",
  "Score": 1.67
},
{

```

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```

        "Question": "23",
        "Answer": "Yes",
        "Score": 2
    },
    {
        "Question": "24",
        "Answer": "Sleep under a bednet every night,Wear long sleeved clothes,
↪especially at night and in the forest,Use mosquito repellent on exposed skin",
        "Score": 3
    }
]
}

```

10.3.3 Insert/Update Question

POST /api-qa/v1/VMW/update

Insert/Update question.

Parse as json:

```

{
  "data": {
    "Code_Vill_T": "0105090400",
    "Detail": [
      {
        "Answer": "13 Months - 24 Months",
        "Question": "0.1",
        "Score": 0
      },
      {
        "Answer": "Female",
        "Question": "0.2",
        "Score": 0
      },
      {
        "Answer": "",
        "Question": "1",
        "Score": 1
      },
      {
        "Answer": "Yes",
        "Question": "1.1",
        "Score": 0.25
      },
      {
        "Answer": "Yes",
        "Question": "1.2",
        "Score": 0.25
      },
      {
        "Answer": "Yes",
        "Question": "1.3",
        "Score": 0.25
      }
    ]
  }
}

```

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```

        "Answer": "Yes",
        "Question": "1.4",
        "Score": 0.25
    },
    {
        "Answer": "Yes",
        "Question": "2",
        "Score": 2
    },
    {
        "Answer": "",
        "Question": "3",
        "Score": 3
    },
    {
        "Answer": "Yes",
        "Question": "3.1",
        "Score": 0.5
    },
    {
        "Answer": "Yes",
        "Question": "3.2",
        "Score": 1.25
    },
    {
        "Answer": "Yes",
        "Question": "3.3",
        "Score": 1.25
    },
    {
        "Answer": "Loss of consciousness\coma, Little urine, Jaundice or
→very pale",
        "Question": "4",
        "Score": 3
    },
    {
        "Answer": "Fever, Headache, Chills",
        "Question": "5",
        "Score": 3
    },
    {
        "Answer": "",
        "Question": "6",
        "Score": 6
    },
    {
        "Answer": "Yes",
        "Question": "6.1",
        "Score": 1
    },
    {
        "Answer": "Yes",
        "Question": "6.2",
        "Score": 1
    },
    {

```

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```

    "Answer": "Yes",
    "Question": "6.3",
    "Score": 1
  },
  {
    "Answer": "Yes",
    "Question": "6.4",
    "Score": 1
  },
  {
    "Answer": "Yes",
    "Question": "6.5",
    "Score": 1
  },
  {
    "Answer": "Yes",
    "Question": "6.6",
    "Score": 1
  },
  {
    "Answer": "Health Center",
    "Question": "7",
    "Score": 3
  },
  {
    "Answer": "Conduct blood test (RDT)",
    "Question": "8",
    "Score": 1
  },
  {
    "Answer": "",
    "Question": "9",
    "Score": 12.25
  },
  {
    "Answer": "Yes",
    "Question": "9.1",
    "Score": 0.5
  },
  {
    "Answer": "Yes",
    "Question": "9.2",
    "Score": 1.25
  },
  {
    "Answer": "Yes",
    "Question": "9.3",
    "Score": 0.5
  },
  {
    "Answer": "Yes",
    "Question": "9.4",
    "Score": 0.5
  },
  {
    "Answer": "Yes",

```

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```

    "Question": "9.5",
    "Score": 0.5
  },
  {
    "Answer": "Yes",
    "Question": "9.6",
    "Score": 1.25
  },
  {
    "Answer": "Yes",
    "Question": "9.7",
    "Score": 1.25
  },
  {
    "Answer": "Yes",
    "Question": "9.8",
    "Score": 1
  },
  {
    "Answer": "Yes",
    "Question": "9.9",
    "Score": 1.25
  },
  {
    "Answer": "Yes",
    "Question": "9.10",
    "Score": 1.25
  },
  {
    "Answer": "Yes",
    "Question": "9.11",
    "Score": 1.25
  },
  {
    "Answer": "Yes",
    "Question": "9.12",
    "Score": 1
  },
  {
    "Answer": "Yes",
    "Question": "9.13",
    "Score": 0.75
  },
  {
    "Answer": "ACT or ACT+PQ",
    "Question": "10",
    "Score": 3.5
  },
  {
    "Answer": "Weight, Age",
    "Question": "11",
    "Score": 3.5
  },
  {
    "Answer": "",
    "Question": "12",

```

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```

        "Score": 16.5
    },
    {
        "Answer": "Yes",
        "Question": "12.1",
        "Score": 3.3
    },
    {
        "Answer": "Yes",
        "Question": "12.2",
        "Score": 3.3
    },
    {
        "Answer": "Yes",
        "Question": "12.3",
        "Score": 3.3
    },
    {
        "Answer": "Yes",
        "Question": "12.4",
        "Score": 3.3
    },
    {
        "Answer": "No",
        "Question": "12.5",
        "Score": 0
    },
    {
        "Answer": "Yes",
        "Question": "12.6",
        "Score": 3.3
    },
    {
        "Answer": "",
        "Question": "13",
        "Score": 2
    },
    {
        "Answer": "Yes",
        "Question": "13.1",
        "Score": 1
    },
    {
        "Answer": "Yes",
        "Question": "13.2",
        "Score": 1
    },
    {
        "Answer": "Yes",
        "Question": "14",
        "Score": 3
    },
    {
        "Answer": "",
        "Question": "15",
        "Score": 3
    }

```

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```

    },
    {
      "Answer": "Yes",
      "Question": "15.1",
      "Score": 1
    },
    {
      "Answer": "Yes",
      "Question": "15.2",
      "Score": 1
    },
    {
      "Answer": "Yes",
      "Question": "15.3",
      "Score": 1
    },
    {
      "Answer": "",
      "Question": "16",
      "Score": 3
    },
    {
      "Answer": "Yes",
      "Question": "16.1",
      "Score": 1
    },
    {
      "Answer": "Yes",
      "Question": "16.2",
      "Score": 1
    },
    {
      "Answer": "Yes",
      "Question": "16.3",
      "Score": 1
    },
    {
      "Answer": "",
      "Question": "17",
      "Score": 6
    },
    {
      "Answer": "Yes",
      "Question": "17.1",
      "Score": 1.2
    },
    {
      "Answer": "Yes",
      "Question": "17.2",
      "Score": 1.2
    },
    {
      "Answer": "Yes",
      "Question": "17.3",
      "Score": 1.2
    },
  },

```

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```

{
  "Answer": "Yes",
  "Question": "17.4",
  "Score": 1.2
},
{
  "Answer": "Yes",
  "Question": "17.5",
  "Score": 1.2
},
{
  "Answer": "",
  "Question": "18",
  "Score": 3
},
{
  "Answer": "Yes",
  "Question": "18.1",
  "Score": 1
},
{
  "Answer": "Yes",
  "Question": "18.2",
  "Score": 1
},
{
  "Answer": "Yes",
  "Question": "18.3",
  "Score": 1
},
{
  "Answer": "",
  "Question": "19",
  "Score": 0
},
{
  "Answer": "No",
  "Question": "19.1",
  "Score": 0
},
{
  "Answer": "",
  "Question": "19.2",
  "Score": 0
},
{
  "Answer": "",
  "Question": "19.3",
  "Score": 0
},
{
  "Answer": "",
  "Question": "20",
  "Score": 2.1699998
},
{

```

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```

    "Answer": "Yes",
    "Question": "20.1",
    "Score": 0.31
  },
  {
    "Answer": "Yes",
    "Question": "20.2",
    "Score": 0.31
  },
  {
    "Answer": "Yes",
    "Question": "20.3",
    "Score": 0.31
  },
  {
    "Answer": "Yes",
    "Question": "20.4",
    "Score": 0.31
  },
  {
    "Answer": "Yes",
    "Question": "20.5",
    "Score": 0.31
  },
  {
    "Answer": "Yes",
    "Question": "20.6",
    "Score": 0.31
  },
  {
    "Answer": "No",
    "Question": "20.7",
    "Score": 0
  },
  {
    "Answer": "No",
    "Question": "20.8",
    "Score": 0
  },
  {
    "Answer": "Yes",
    "Question": "20.9",
    "Score": 0.31
  },
  {
    "Answer": "",
    "Question": "21",
    "Score": 2.1
  },
  {
    "Answer": "24",
    "Question": "21.1",
    "Score": 0
  },
  {
    "Answer": "No",

```

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```

        "Question": "21.2",
        "Score": 0.42
    },
    {
        "Answer": "No",
        "Question": "21.3",
        "Score": 0.42
    },
    {
        "Answer": "Yes",
        "Question": "21.4",
        "Score": 0.42
    },
    {
        "Answer": "32",
        "Question": "21.5",
        "Score": 0
    },
    {
        "Answer": "Yes",
        "Question": "21.6",
        "Score": 0
    },
    {
        "Answer": "No",
        "Question": "21.7",
        "Score": 0.42
    },
    {
        "Answer": "Yes",
        "Question": "21.8",
        "Score": 0.42
    },
    {
        "Answer": "",
        "Question": "22",
        "Score": 3.34
    },
    {
        "Answer": "No",
        "Question": "22.1",
        "Score": 0
    },
    {
        "Answer": "Yes",
        "Question": "22.2",
        "Score": 1.67
    },
    {
        "Answer": "Yes",
        "Question": "22.3",
        "Score": 1.67
    },
    {
        "Answer": "Yes",
        "Question": "23",

```

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```

        "Score": 2
      },
      {
        "Answer": "Sleep under a bednet every night,Plant holy basil around_
↪your home,Clear excess vegetation from around your home",
        "Question": "24",
        "Score": 3
      }
    ],
    "Position": "áz" áŸ' ážšáz' ážŧáz "áz€áz~áŸ' áž~ázœáz · áž' áž,áz,áŸ' ážšáz»áz
"áz...ázŧáz%áŸ< ",
    "Rec_ID": 177,
    "Summary": {
      "Section2": 34.25,
      "Section3": 31.5,
      "Section4": 12,
      "Section5": 4.2699995,
      "Section6": 3.34,
      "Section7": 5
    },
    "TotalScore": 90.35999,
    "VMWName": "      ážŸázŧáz,, áž·áz>áŸ' áž>ázŧ",
    "VisitDate": "2021-06-11",
    "VisitorName": " áž~áŸ%áz»áz€ áž...áz "áŸŧázŸ' áž 'ázŸázŧázœázŸ%ázŧázŧ",
    "WorkPlace": "OD"
  }
}

```

Note: if Rec_ID is empty/null it will insert new.

if Rec_ID is not empty/null it will update.

10.3.4 Delete Question

POST /api-qa/v1/VMW/delete

Delete question.

Parse as json:

```

{
  "Rec_ID": 387
}

```

10.3.5 Report

POST /api-qa/v1/VMW/report

Show report

Parse as json:

```
{
  "Code_Prov_T": "15",
  "Code_OD_T": "1503",
  "Code_Facility_T": "150301",
  "Code_Vill_T": "",
  "Year": 2021,
  "Month": ""
}
```

Response as json:

```
[
  {
    "Rec_ID": 387,
    "Code_Prov_T": "15",
    "Name_Prov_E": "Pursat",
    "Name_Prov_K": "២២២២២២២២",
    "Code_OD_T": "1503",
    "Name_OD_E": "Kravanh",
    "Name_OD_K": "២២២២២២",
    "Code_Facility_T": "150301",
    "Name_Facility_E": "Phnom Kravanh",
    "Name_Facility_K": "២២២២២២២២២២",
    "Code_Vill_T": "1504020400",
    "Name_Vill_E": "Sbov Rik",
    "Name_Vill_K": "២២២២២២២២",
    "VMWType": "VMW",
    "VMWName": "២២២ ២២២",
    "VisitDate": "2021-08-09",
    "VisitorName": "២២២២២ ២២២២២",
    "Position": "២២២២២២២២២",
    "WorkPlace": "HC",
    "TPR": 6,
    "TotalScore": 99.06,
    "PreviousScore": null,
    "NextVisit": "២២២២២២២២២២២២២២",
    "Priority": 8,
    "LowestSectionScore": null,
    "Section2": 34.25,
    "Section2Priority": 8,
    "Section3": 34.8,
    "Section3Priority": 8,
    "Section4": 15,
    "Section4Priority": 8,
    "Section5": 5,
    "Section5Priority": 8,
    "Section6": 5.01,
    "Section6Priority": 8,
    "Section7": 5,
    "Section7Priority": 8
  },
]
```

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```

{
  "Rec_ID": null,
  "Code_Prov_T": "15",
  "Name_Prov_E": "Pursat",
  "Name_Prov_K": "?????????",
  "Code_OD_T": "1503",
  "Name_OD_E": "Kravanh",
  "Name_OD_K": "?????",
  "Code_Facility_T": "150301",
  "Name_Facility_E": "Phnom Kravanh",
  "Name_Facility_K": "?????????",
  "Code_Vill_T": "1504020501",
  "Name_Vill_E": "Meart",
  "Name_Vill_K": "???",
  "VMWType": "VMW",
  "VMWName": null,
  "VisitDate": null,
  "VisitorName": null,
  "Position": null,
  "WorkPlace": null,
  "TPR": null,
  "TotalScore": null,
  "PreviousScore": null,
  "NextVisit": "Never access",
  "Priority": 5,
  "LowestSectionScore": null,
  "Section2": null,
  "Section2Priority": 5,
  "Section3": null,
  "Section3Priority": 5,
  "Section4": null,
  "Section4Priority": 5,
  "Section5": null,
  "Section5Priority": 5,
  "Section6": null,
  "Section6Priority": 5,
  "Section7": null,
  "Section7Priority": 5
}
]

```

API V2 OF LAST MILE

11.1 House hold

11.1.1 House hold List

GET /api-last-smile/v1/fociHouseHold/list

get list of house hold

Query Parameters

- **village_code** (*int*) -code of village

Response as json:

```
{
  "code": 200,
  "message": "success",
  "data": [
    {
      "Rec_ID": 119,
      "Month": "7",
      "Year": "2021",
      "Code_Vill_T": "1504060300",
      "HouseNumber": 1,
      "HouseHolder": "??",
      "Phone": "010898989",
      "TotalMember": 2,
      "LLIN": 3,
      "LLINLack": -2,
      "LLIHN": 1,
      "LLIHNLack": 0,
      "TotalForestEntry": 1,
      "Lat": 11.5923671,
      "Long": 104.8897794,
      "HasMemberAtHome": null,
      "InitUser": null,
      "IsMobileEntry": null,
      "TDA1": null,
      "TDA2": null,
      "IPT": [],
      "AFS": []
    }
  ]
}
```

Object

- HasMemberAtHome (string) –Yes/No.
- TDA1 (string) –Date of TDA 1.
- TDA2 (string) –Date of TDA 2.
- IPT (array) –Date of IPT (Array).
- AFS (array) –Date of AFS (Array).

11.1.2 House hold detail

GET /api-last-smile/v1/fociHouseHold/detail
get detail of house hold

Query Parameters

- **house_hold_id** (*int*) –id (primary key) house hold.

Response as json:

```
{
  "code": 200,
  "message": "success",
  "data": {
    "house": {
      "Rec_ID": 21,
      "Month": "4",
      "Year": "2021",
      "Code_Vill_T": "0504033301",
      "HouseNumber": 1,
      "HouseHolder": "Dary",
      "Phone": "069859540",
      "TotalMember": 2,
      "LLIN": 2,
      "LLINLack": -1,
      "LLIHN": 1,
      "LLIHNlack": 0,
      "TotalForestEntry": 1,
      "Lat": 11.8050141,
      "Long": 104.1685751,
      "HasMemberAtHome": null,
      "InitUser": null,
      "IsMobileEntry": null,
      "TDA1": null,
      "TDA2": null,
      "IPT": []
    },
    "members": [
      {
        "Rec_ID": 40,
        "Name": "Dara",
        "Age": 22,
        "Sex": "M",
        "ForestEntry": "Yes",
        "TDA": "Yes",
        "IPT": "Yes",

```

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```

        "HouseHoldID": 21
    },
    {
        "Rec_ID": 41,
        "Name": "Daro",
        "Age": 43,
        "Sex": "F",
        "ForestEntry": "No",
        "TDA": null,
        "IPT": null,
        "HouseHoldID": 21
    }
]
}
}

```

11.1.3 Insert/Update house hold

POST /api-last-smile/v1/fociHouseHold/update

Insert/Update house hold

Parse as json:

```

{
  "house": {
    "Rec_ID": null,
    "Code_Vill_T": "0109050901",
    "HouseNumber": "1",
    "HouseHolder": "test",
    "Phone": "013346789",
    "TotalMember": 8,
    "LLIN": 1,
    "LLINLack": -1,
    "LLIHN": 1,
    "LLIHNlack": -2,
    "TotalForestEntry": 0,
    "Month": "01",
    "Year": "2021",
    "HasMemberAtHome": "Yes",
    "Lat": 122.255,
    "Long": 234.555
  },
  "member": [
    {
      "Rec_ID": null,
      "Name": "ta",
      "Age": "34",
      "Sex": "M",
      "ForestEntry": "No",
      "TDA": "",
      "IPT": "",
      "HouseHoldID": 1
    },
    {
      "Rec_ID": null,

```

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```

    "Name": "ty",
    "Age": "40",
    "Sex": "F",
    "ForestEntry": "Yes",
    "TDA": "",
    "IPT": "",
    "HouseHoldID": 1
  },
  {
    "Rec_ID": null,
    "Name": "tt",
    "Age": 45,
    "Sex": "M",
    "ForestEntry": "Yes",
    "TDA": "",
    "IPT": "",
    "HouseHoldID": 1
  }
]
}

```

Object

- HasMemberAtHome (string) –Yes/No.
- TDA (string) –Yes/No.
- IPT (string) –Yes/No.
- ForestEntry (string) –Yes/No.

Note: If Rec_ID is null then it will insert new.

if Rec_ID is not null then it will update.

If member of house hold with Age between 15 and 49 and Sex = M then TDA = Yes

If member of house hold with Age between 15 and 49 and ForestEntry = Yes then IPT = Yes

11.2 TDA

11.2.1 TDA form

GET /api-last-smile/v1/TDA/form

Get form of TDA

Query Parameters

- **house_hold_id** (*int*) –id (primary key) house hold.
- **type** (*int*) –1/2.

Response as json:

```

{
  "code": 200,
  "message": "success",
  "data": {
    "TDA": [
      {
        "TDADate": "2021-07-19",
        "HouseHoldID": 216,
        "HouseMemberID": 792,
        "Name": "???? ????",
        "Age": 35,
        "Sex": "M",
        "DoNotUse": "No",
        "Reject": "No",
        "Absent": "Yes",
        "SideEffect": null,
        "RejectReason": null,
        "Type": 1,
        "Date": null,
        "IsTDA": 1
      },
      {
        "TDADate": "2021-07-19",
        "HouseHoldID": 216,
        "HouseMemberID": 794,
        "Name": "???? ????",
        "Age": 15,
        "Sex": "M",
        "DoNotUse": "No",
        "Reject": "No",
        "Absent": "Yes",
        "SideEffect": null,
        "RejectReason": null,
        "Type": 1,
        "Date": null,
        "IsTDA": 1
      }
    ]
  }
}

```

Object

- DoNotUse (string) –Yes/No.
- Reject (string) –Yes/No.
- Absent (string) –Yes/No.

11.2.2 Insert/Update TDA

POST /api-last-smile/v1/TDA/update

Insert/update TDA

Parse as json:

```
{
  "TDA" : [
    {
      "TDADate" : "2021-07-07",
      "DoNotUse": "Yes",
      "Reject": "",
      "Absent": "",
      "Type": "1",
      "Date": "2021-18-01",
      "SideEffect": "headache",
      "RejectReason": "lazy",
      "HouseHoldID": 216,
      "HouseMemberID": 794
    },
    {
      "TDADate" : "2021-07-07",
      "DoNotUse": "Yes",
      "Reject": "",
      "Absent": "",
      "Type": "1",
      "Date": "",
      "SideEffect": "headache",
      "RejectReason": "lazy",
      "HouseHoldID": 216,
      "HouseMemberID": 794
    }
  ]
}
```

Note: TDA1 and TDA2 must be 28 days apart.

Must complete TDA1/TDA2 before do IPT.

IPT and TDA1 must be 14 days apart.

IPT and TDA2 must be 28 days apart.

11.3 IPT

11.3.1 IPT form

GET /api-last-smile/v1/IPT/form

Get form of IPT

Query Parameters

- `house_hold_id (int)` –id (primary key) house hold.

- **month** (*string*) –01,02,...,12.
- **year** (*string*) –2021,2022,...

Response as json:

```
{
  "code": 200,
  "message": "success",
  "data": {
    "IPT": [
      {
        "HouseMemberID": 792,
        "Month": null,
        "Year": null,
        "Name": "??? ???",
        "Age": 35,
        "Sex": "M",
        "IPTDate": null,
        "DoNotUse": null,
        "Reject": null,
        "Date": null,
        "HouseHoldID": 216,
        "NotEnterForest": null,
        "RefuseReason": null,
        "Absent": null,
        "IsIPT": 1
      }
    ]
  }
}
```

Object

- NotEnterForest (string) –Yes/No.
- DoNotUse (string) –Yes/No.
- Reject (string) –Yes/No.
- Absent (string) –Yes/No.

11.3.2 Insert/Update IPT

POST /api-last-smile/v1/IPT/update

Insert/update IPT

Parse as json:

```
{
  "IPT": [
    {
      "HouseMemberID": 479,
      "Month": "08",
      "Year": 2021,
      "IPTDate": "2021-07-07",
      "DoNotUse": "",
      "Reject": "",

```

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```

        "Date": "",
        "NotEnterForest": "",
        "Absent": "",
        "RefuseReason": "",
        "HouseHoldID": 82
    }
]
}

```

11.4 AFS

11.4.1 AFS form

GET /api-last-smile/v1/AFS/form

Get form of AFS

Query Parameters

- **house_hold_id** (*int*) –id (primary key) house hold.
- **afs_date** (*string*) –Date of AFS, YYYY-MM-DD, e.g: 2021-11-30.

Response as json:

```

{
  "code": 200,
  "message": "success",
  "data": {
    "AFS": [
      {
        "HouseMemberID": 479,
        "Name": "Sophy",
        "Age": 36,
        "Sex": "F",
        "AFSDate": null,
        "W1": null,
        "W2": null,
        "W3": null,
        "W4": null,
        "W1Specie": null,
        "W2Specie": null,
        "W3Specie": null,
        "W4Specie": null,
        "HouseHoldID": 82
      },
      {
        "HouseMemberID": 480,
        "Name": "Bopha",
        "Age": 38,
        "Sex": "M",
        "AFSDate": null,
        "W1": null,
        "W2": null,
        "W3": null,

```

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```

        "W4": null,
        "W1Specie": null,
        "W2Specie": null,
        "W3Specie": null,
        "W4Specie": null,
        "HouseHoldID": 82
    }
}
]
}
}

```

Object

- W1/W2/W3/W4 (string) –Yes/No/N/A.
- W1Specie/W2Specie/W3Specie/W4Specie (string) –F/V/M/N.

11.4.2 Insert/Update AFS

POST /api-last-smile/v1/AFS/update

Insert/update AFS

Parse as json:

```

{
  "AFS": [
    {
      "HouseMemberID": 479,
      "AFSDate": "2021-07-07",
      "W1": "",
      "W2": "",
      "W3": "",
      "W4": "",
      "W1Specie": null,
      "W2Specie": null,
      "W3Specie": null,
      "W4Specie": null,
      "HouseHoldID": 82
    },
    {
      "HouseMemberID": 480,
      "AFSDate": "2021-07-07",
      "W1": "",
      "W2": "",
      "W3": "",
      "W4": "",
      "W1Specie": "Pv",
      "W2Specie": null,
      "W3Specie": null,
      "W4Specie": null,
      "HouseHoldID": 82
    }
  ]
}

```

API V1 OF CHECK LIST APP

12.1 User Authentication

POST /api-checklist/v1/Users/auth

User login

Parse as json:

```
{
  "Username": "RattanaMIS",
  "Password": "123456"
}
```

Response as json:

```
{
  "Role": "AU",
  "Code_Prov_T": "",
  "Code_OD_T": "",
  "Code_Facility_T": "",
  "message": "ok"
}
```

12.2 HC checklist

12.2.1 Get HC check list

POST /api-checklist/v1/hc/list

Get list of HC checklist

Parse as json:

```
{
  "Code_Prov_T": "01",
  "Code_OD_T": "",
  "Code_Facility_T": ""
}
```

Response as json:

```
[
{
  "Rec_ID": 33,
  "Code_Facility_T": "010202",
  "Quarter": "2021 Q3",
  "VisitDate": "2021-10-13",
  "VisitorName": "Hem Vanna ",
  "VisitorSex": "M",
  "Part1Score": null,
  "Part2Score": null,
  "Part3Score": null,
  "Part4Score": null,
  "Part5Score": null,
  "Code_Prov_T": "01",
  "Code_OD_T": "0102"
},
{
  "Rec_ID": 58,
  "Code_Facility_T": "010303",
  "Quarter": "Q1 2021",
  "VisitDate": "2022-01-04",
  "VisitorName": "1",
  "VisitorSex": "F",
  "Part1Score": 18.5,
  "Part2Score": 19,
  "Part3Score": 20,
  "Part4Score": 1,
  "Part5Score": 4,
  "Code_Prov_T": "01",
  "Code_OD_T": "0103"
},
{
  "Rec_ID": 59,
  "Code_Facility_T": "010303",
  "Quarter": "Q1 2021",
  "VisitDate": "2022-01-04",
  "VisitorName": "1",
  "VisitorSex": "F",
  "Part1Score": 18.5,
  "Part2Score": 19,
  "Part3Score": 20,
  "Part4Score": 1,
  "Part5Score": 4,
  "Code_Prov_T": "01",
  "Code_OD_T": "0103"
}
]
```

12.2.2 HC checklist detail

POST /api-checklist/v1/hc/detail

Get detail of HC checklist

Parse as json:

```
{
  "Rec_ID": 33
}
```

Response as json:

```
{
  "Rec_ID": 33,
  "Code_Facility_T": "010202",
  "Quarter": "2021 Q3",
  "VisitDate": "2021-10-13",
  "VisitorName": "Hem Vanna ",
  "VisitorSex": "M",
  "Part1Score": null,
  "Part2Score": null,
  "Part3Score": null,
  "Part4Score": null,
  "Part5Score": null,
  "Code_Prov_T": "01",
  "Code_OD_T": "0102",
  "Detail": {
    "P1Q1": {
      "Answer": {
        "other": "",
        "tick": "Yes"
      },
      "Score": 0
    },
    "P1Q1_1": {
      "Answer": {
        "other": "",
        "tick": "Over 7 days"
      },
      "Score": 0
    },
    "P1Q1_2": {
      "Answer": {
        "other": "",
        "tick": "Yes"
      },
      "Score": 0
    },
    "P1Q2": {
      "Answer": {
        "other": "",
        "tick": "Yes"
      },
      "Score": 0
    },
    "P1Q3": {
      "Answer": {
```

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```

        "other": "",
        "tick": "Referred"
    },
    "Score": 0
},
"P1Q4": {
    "Answer": {
        "other": "",
        "tick": "Yes"
    },
    "Score": 0
},
"P1Q5": {
    "Answer": {
        "other": "",
        "tick": "Yes"
    },
    "Score": 0
},
"P1Q6": {
    "Answer": {
        "other": "",
        "tick": [
            "National guidelines",
            "Surveillance book",
            "Other"
        ]
    },
    "Score": 0
},
"P1Q7": {
    "Answer": {
        "other": "",
        "tick": "Yes"
    },
    "Score": 0
},
"P2Q1": {
    "Answer": {
        "other": "",
        "tick": "Everyday"
    },
    "Score": 0
},
"P2Q2": {
    "Answer": {
        "other": "",
        "tick": "Everyday"
    },
    "Score": 0
},
"P2Q3": {
    "Answer": {
        "other": "",
        "tick": "Under 24 hours"
    },
    "Score": 0
},

```

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```

        "Score": 0
    },
    "P2Q4": {
        "Answer": {
            "other": "",
            "tick": "Correct"
        },
        "Score": 0
    },
    "P2Q5": {
        "Answer": {
            "other": "",
            "tick": "Correct"
        },
        "Score": 0
    },
    "P2Q6": {
        "Answer": {
            "other": "",
            "tick": "Correct"
        },
        "Score": 0
    },
    "P3Q1": {
        "Answer": {
            "mix": "2",
            "pf": "2",
            "positive": "2",
            "pv": "2",
            "test": "2"
        },
        "Score": 0
    },
    "P3Q2": {
        "Answer": {
            "mix": "2",
            "pf": "2",
            "positive": "2",
            "pv": "2",
            "test": ""
        },
        "Score": 0
    },
    "P3Q2_1": {
        "Answer": "thhh",
        "Score": 0
    },
    "P3Q3": {
        "Answer": {
            "mix": "2",
            "pf": "2",
            "positive": "2",
            "pv": "2",
            "test": ""
        },
        "Score": 0
    }

```

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```

    },
    "P3Q3_1": {
      "Answer": "vghh",
      "Score": 0
    },
    },
    "P3Q3_2": {
      "Answer": {
        "other": "",
        "tick": "No Pf and Mix"
      },
      "Score": 0
    },
    },
    "P3Q3_3": {
      "Answer": {
        "other": "",
        "tick": "No Pv"
      },
      "Score": 0
    },
    },
    "P3Q3_4": {
      "Answer": {
        "other": "",
        "tick": "No Pf and Mix"
      },
      "Score": 0
    },
    },
    "P3Q4": {
      "Answer": {
        "l1": "3",
        "lc": ""
      },
      "Score": 0
    },
    },
    "P3Q5": {
      "Answer": "3",
      "Score": 0
    },
    },
    "P4": {
      "Answer": {
        "list": [
          {
            "age": "88",
            "duration": "556",
            "medicine": "gg",
            "pill": "555",
            "score": 0,
            "sex": "M",
            "tick": "Correct",
            "virus": "F"
          },
          {
            "age": "88",
            "duration": "556",
            "medicine": "gg",
            "pill": "555",
            "score": 0,

```

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```

    "sex": "M",
    "tick": "Correct",
    "virus": "F"
  },
  {
    "age": "88",
    "duration": "556",
    "medicine": "gg",
    "pill": "555",
    "score": 0,
    "sex": "M",
    "tick": "Correct",
    "virus": "F"
  },
  {
    "age": "88",
    "duration": "556",
    "medicine": "gg",
    "pill": "555",
    "score": 0,
    "sex": "M",
    "tick": "Correct",
    "virus": "F"
  },
  {
    "age": "88",
    "duration": "556",
    "medicine": "gg",
    "pill": "555",
    "score": 0,
    "sex": "M",
    "tick": "Correct",
    "virus": "F"
  },
  {
    "age": "88",
    "duration": "556",
    "medicine": "gg",
    "pill": "555",
    "score": 0,
    "sex": "M",
    "tick": "Correct",
    "virus": "F"
  },
  {
    "age": "88",
    "duration": "556",
    "medicine": "gg",
    "pill": "555",
    "score": 0,
    "sex": "M",
    "tick": "Correct",
    "virus": "F"
  },
  {
    "age": "88",
    "duration": "556",
    "medicine": "gg",
    "pill": "555",
    "score": 0,
    "sex": "M",
    "tick": "Correct",
    "virus": "F"
  },
  {
    "age": "88",

```

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```

        "duration": "556",
        "medicine": "gg",
        "pill": "555",
        "score": 0,
        "sex": "M",
        "tick": "Correct",
        "virus": "F"
    },
    {
        "age": "88",
        "duration": "556",
        "medicine": "gg",
        "pill": "555",
        "score": 0,
        "sex": "M",
        "tick": "Correct",
        "virus": "F"
    }
],
    "qty": 9
},
    "Score": 0
},
    "P5Q1": {
        "Answer": {
            "other": "",
            "tick": "Not stockout"
        },
        "Score": 0
    },
    "P5Q2": {
        "Answer": {
            "other": "",
            "tick": "Stockout"
        },
        "Score": 0
    },
    "P5Q3": {
        "Answer": {
            "other": "",
            "tick": "Stockout"
        },
        "Score": 0
    },
    "P5Q4": {
        "Answer": {
            "other": "",
            "tick": "Not stockout"
        },
        "Score": 0
    },
    "P5Q5": {
        "Answer": {
            "other": "",
            "tick": "Not stockout"
        },
    },

```

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```

        "Score": 0
      },
      "P6Q1": {
        "Answer": {
          "date": "2021-10-10",
          "person": "jhhu",
          "problem": "yffyyg",
          "solution": "vhghy"
        },
        "Score": 0
      },
      "P6Q2": {
        "Answer": {
          "date": "2021-10-01",
          "person": "huhu",
          "problem": "hvyg",
          "solution": "hguh"
        },
        "Score": 0
      },
    },
  }
}

```

12.2.3 HC checklist Insert/Update

POST /api-checklist/v1/hc/update
Insert/Update

Parse as json:

```

{
  "Code_Facility_T": "010202",
  "Code_OD_T": "0102",
  "Code_Prov_T": "01",
  "Detail": {
    "P1Q1": {
      "Answer": {
        "other": "",
        "tick": "Yes"
      },
      "Score": 2
    },
    "P1Q1_1": {
      "Answer": {
        "other": "",
        "tick": "Over 7 days"
      },
      "Score": 0
    },
    "P1Q1_2": {
      "Answer": {
        "other": "",
        "tick": "Yes"
      },
      "Score": 1
    }
  }
}

```

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```

    },
    "P1Q2": {
      "Answer": {
        "other": "",
        "tick": "Yes"
      },
      "Score": 0
    },
    "P1Q3": {
      "Answer": {
        "other": "",
        "tick": "Referred"
      },
      "Score": 2
    },
    "P1Q4": {
      "Answer": {
        "other": "",
        "tick": "Yes"
      },
      "Score": 4
    },
    "P1Q5": {
      "Answer": {
        "other": "",
        "tick": "Yes"
      },
      "Score": 5
    },
    "P1Q6": {
      "Answer": {
        "other": "",
        "tick": [
          "National guidelines",
          "Surveillance book",
          "Other"
        ]
      },
      "Score": 6
    },
    "P1Q7": {
      "Answer": {
        "other": "",
        "tick": "Yes"
      },
      "Score": 4
    },
    "P2Q1": {
      "Answer": {
        "other": "",
        "tick": "Everyday"
      },
      "Score": 5
    },
    "P2Q2": {
      "Answer": {

```

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```

        "other": "",
        "tick": "Everyday"
    },
    "Score": 5
},
"P2Q3": {
    "Answer": {
        "other": "",
        "tick": "Under 24 hours"
    },
    "Score": 5
},
"P2Q4": {
    "Answer": {
        "other": "",
        "tick": "Correct"
    },
    "Score": 5
},
"P2Q5": {
    "Answer": {
        "other": "",
        "tick": "Correct"
    },
    "Score": 5
},
"P2Q6": {
    "Answer": {
        "other": "",
        "tick": "Correct"
    },
    "Score": 5
},
"P3Q1": {
    "Answer": {
        "mix": "2",
        "pf": "2",
        "positive": "2",
        "pv": "2",
        "test": "2"
    },
    "Score": 0
},
"P3Q2": {
    "Answer": {
        "mix": "2",
        "pf": "2",
        "positive": "2",
        "pv": "2",
        "test": ""
    },
    "Score": 0
},
"P3Q2_1": {
    "Answer": "thhh",
    "Score": 0
}

```

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```

    },
    "P3Q3": {
      "Answer": {
        "mix": "2",
        "pf": "2",
        "positive": "2",
        "pv": "2",
        "test": ""
      },
      "Score": 0
    },
    "P3Q3_1": {
      "Answer": "vghh",
      "Score": 0
    },
    "P3Q3_2": {
      "Answer": {
        "other": "",
        "tick": "No Pf and Mix"
      },
      "Score": 8
    },
    "P3Q3_3": {
      "Answer": {
        "other": "",
        "tick": "No Pv"
      },
      "Score": 8
    },
    "P3Q3_4": {
      "Answer": {
        "other": "",
        "tick": "No Pf and Mix"
      },
      "Score": 4
    },
    "P3Q4": {
      "Answer": {
        "l1": "3",
        "lc": "0"
      },
      "Score": 0
    },
    "P3Q5": {
      "Answer": "3",
      "Score": 0
    },
    "P4": {
      "Answer": {
        "list": [
          {
            "age": "88",
            "duration": "556",
            "medicine": "gg",
            "pill": "555",
            "score": 1,

```

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```

    "sex": "M",
    "tick": "Correct",
    "virus": "F"
  },
  {
    "age": "88",
    "duration": "556",
    "medicine": "gg",
    "pill": "555",
    "score": 1,
    "sex": "M",
    "tick": "Correct",
    "virus": "F"
  },
  {
    "age": "88",
    "duration": "556",
    "medicine": "gg",
    "pill": "555",
    "score": 1,
    "sex": "M",
    "tick": "Correct",
    "virus": "F"
  },
  {
    "age": "88",
    "duration": "556",
    "medicine": "gg",
    "pill": "555",
    "score": 1,
    "sex": "M",
    "tick": "Correct",
    "virus": "F"
  },
  {
    "age": "88",
    "duration": "556",
    "medicine": "gg",
    "pill": "555",
    "score": 1,
    "sex": "M",
    "tick": "Correct",
    "virus": "F"
  },
  {
    "age": "88",
    "duration": "556",
    "medicine": "gg",
    "pill": "555",
    "score": 1,
    "sex": "M",
    "tick": "Correct",
    "virus": "F"
  },
  {
    "age": "88",
    "duration": "556",
    "medicine": "gg",
    "pill": "555",
    "score": 1,
    "sex": "M",
    "tick": "Correct",
    "virus": "F"
  },
  {
    "age": "88",

```

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```

        "duration": "556",
        "medicine": "gg",
        "pill": "555",
        "score": 1,
        "sex": "M",
        "tick": "Correct",
        "virus": "F"
    },
    {
        "age": "88",
        "duration": "556",
        "medicine": "gg",
        "pill": "555",
        "score": 1,
        "sex": "M",
        "tick": "Correct",
        "virus": "F"
    },
    {
        "age": "88",
        "duration": "556",
        "medicine": "gg",
        "pill": "555",
        "score": 1,
        "sex": "M",
        "tick": "Correct",
        "virus": "F"
    }
],
    "qty": 9
},
    "Score": 9
},
    "P5Q1": {
        "Answer": {
            "other": "",
            "tick": "Not stockout"
        },
        "Score": 2
    },
    "P5Q2": {
        "Answer": {
            "other": "",
            "tick": "Stockout"
        },
        "Score": 0
    },
    "P5Q3": {
        "Answer": {
            "other": "",
            "tick": "Stockout"
        },
        "Score": 0
    },
    "P5Q4": {
        "Answer": {

```

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```

        "other": "",
        "tick": "Not stockout"
    },
    "Score": 2
},
"P5Q5": {
    "Answer": {
        "other": "",
        "tick": "Not stockout"
    },
    "Score": 2
},
"P6Q1": {
    "Answer": {
        "date": "2021-10-10",
        "person": "jhhu",
        "problem": "yffyyg",
        "solution": "vhghy"
    },
    "Score": 0
},
"P6Q2": {
    "Answer": {
        "date": "2021-10-01",
        "person": "huhu",
        "problem": "hvyg",
        "solution": "hguh"
    },
    "Score": 0
}
},
"Quarter": "2021 Q3",
"Rec_ID": 33,
"VisitDate": "2021-10-13",
"VisitorName": "Hem Vanna ",
"VisitorSex": "M"
}

```

Note: If Rec_ID is null or 0 it will insert new.

If Rec_ID is not null or not equal 0 it will update.

12.2.4 HC checklist additional data

POST /api-checklist/v1/hc/misdata

get additional data

Parse as json:

```

{
  "Code_Facility_T": "010202"
}

```

Response as json:

```
{
  "vmw": 0
}
```

12.3 OD checklist

12.3.1 Get OD check list

POST /api-checklist/v1/od/list

Get list of OD checklist

Parse as json:

```
{
  "Code_Prov_T": "01",
  "Code_OD_T": ""
}
```

Response as json:

```
[
  {
    "Rec_ID": 25,
    "Code_OD_T": "0102",
    "Quarter": "2021 Q3",
    "VisitDate": "2021-10-01",
    "VisitorName": "Tata",
    "VisitorSex": "F",
    "Part1Score": 34.19,
    "Part2Score": 2,
    "Part3Score": 0,
    "Part4Score": 0,
    "Code_Prov_T": "01"
  },
  {
    "Rec_ID": 26,
    "Code_OD_T": "0102",
    "Quarter": "2021 Q3",
    "VisitDate": "2021-10-04",
    "VisitorName": "Vary",
    "VisitorSex": "F",
    "Part1Score": null,
    "Part2Score": null,
    "Part3Score": null,
    "Part4Score": null,
    "Code_Prov_T": "01"
  },
  {
    "Rec_ID": 28,
    "Code_OD_T": "0102",
    "Quarter": "2021 Q3",
    "VisitDate": "2021-10-12",
    "VisitorName": "Rinna",
    "VisitorSex": "M",

```

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```

    "Part1Score": null,
    "Part2Score": null,
    "Part3Score": null,
    "Part4Score": null,
    "Code_Prov_T": "01"
  }
]

```

12.3.2 OD check list detail

POST /api-checklist/v1/od/list

Get detail data of OD checklist

Parse as json:

```

{
  "Rec_ID": 123
}

```

Response as json:

```

{
  "Rec_ID": 25,
  "Code_OD_T": "0102",
  "Quarter": "2021 Q3",
  "VisitDate": "2021-10-01",
  "VisitorName": "?????",
  "VisitorSex": "F",
  "Part1Score": 34.19,
  "Part2Score": 2,
  "Part3Score": 0,
  "Part4Score": 0,
  "Code_Prov_T": "01",
  "Detail": {
    "P1Q1_1": {
      "Answer": {
        "other": "",
        "tick": "No"
      },
      "Score": 0
    },
    "P1Q1_2": {
      "Answer": {
        "other": "",
        "tick": "No"
      },
      "Score": 0
    },
    "P1Q1_3": {
      "Answer": {
        "other": "",
        "tick": "No"
      },
      "Score": 0
    }
  },
}

```

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```

"P1Q2_1": {
  "Answer": {
    "plan": "3",
    "result": "3"
  },
  "Score": 100
},
"P1Q2_2": {
  "Answer": {
    "plan": "11",
    "result": "1"
  },
  "Score": 9
},
"P1Q2_3": {
  "Answer": {
    "plan": "1",
    "result": "1"
  },
  "Score": 100
},
"P1Q3_1": {
  "Answer": {
    "other": "",
    "tick": "No"
  },
  "Score": 0
},
"P1Q3_2": {
  "Answer": {
    "other": "",
    "tick": "No"
  },
  "Score": 0
},
"P1Q3_3": {
  "Answer": {
    "other": "",
    "tick": "No"
  },
  "Score": 0
},
"P1Q4": {
  "Answer": {
    "other": "",
    "tick": "Yes"
  },
  "Score": 5
},
"P1Q5": {
  "Answer": {
    "other": "",
    "tick": "Yes"
  },
  "Score": 15
},

```

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```

"P1Q6": {
  "Answer": {
    "other": "",
    "tick": "Yes"
  },
  "Score": 5
},
"P1Q7": {
  "Answer": {
    "other": "",
    "tick": "Yes"
  },
  "Score": 5
},
"P1Q8_1": {
  "Answer": {
    "plan": "15",
    "result": "2"
  },
  "Score": 0.4
},
"P1Q8_2": {
  "Answer": {
    "plan": "8",
    "result": "2"
  },
  "Score": 0.25
},
"P1Q8_3": {
  "Answer": {
    "plan": "50",
    "result": "2"
  },
  "Score": 0.04
},
"P2Q1": {
  "Answer": {
    "amc": "2",
    "balance": "2",
    "stockin": "2",
    "stockout": "2",
    "tick": "Under"
  },
  "Score": 0.5
},
"P2Q2": {
  "Answer": {
    "amc": "2",
    "balance": "2",
    "stockin": "2",
    "stockout": "2",
    "tick": "Under"
  },
  "Score": 0.5
},
"P2Q3": {

```

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```

        "Answer": {
            "amc": "2",
            "balance": "2",
            "stockin": "2",
            "stockout": "2",
            "tick": "Under"
        },
        "Score": 0.5
    },
    "P2Q4": {
        "Answer": {
            "amc": "2",
            "balance": "2",
            "stockin": "2",
            "stockout": "2",
            "tick": "Under"
        },
        "Score": 0.25
    },
    "P2Q5": {
        "Answer": {
            "amc": "2",
            "balance": "2",
            "stockin": "2",
            "stockout": "2",
            "tick": "Under"
        },
        "Score": 0.25
    },
    "P3VMW_Test": {
        "Answer": "32",
        "Score": null
    },
    "P3VMW_Positive": {
        "Answer": "2",
        "Score": null
    },
    "P3VMW_Pf": {
        "Answer": "2",
        "Score": null
    },
    "P3VMW_Pv": {
        "Answer": "2",
        "Score": null
    },
    "P3VMW_Mix": {
        "Answer": "2",
        "Score": null
    },
    "P3VMW_Minor": {
        "Answer": "2",
        "Score": null
    },
    "P3VMW_Severe": {
        "Answer": "2",
        "Score": null
    }

```

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```

    },
    "P3VMW_Death": {
      "Answer": "2",
      "Score": null
    },
    },
    "P3VMW_Report": {
      "Answer": "2",
      "Score": null
    },
    },
    "P3HC_Test": {
      "Answer": "2",
      "Score": null
    },
    },
    "P3HC_Positive": {
      "Answer": "2",
      "Score": null
    },
    },
    "P3HC_Pf": {
      "Answer": "2",
      "Score": null
    },
    },
    "P3HC_Pv": {
      "Answer": "2",
      "Score": null
    },
    },
    "P3HC_Mix": {
      "Answer": "2",
      "Score": null
    },
    },
    "P3HC_Minor": {
      "Answer": "2",
      "Score": null
    },
    },
    "P3HC_Severe": {
      "Answer": "2",
      "Score": null
    },
    },
    "P3HC_Death": {
      "Answer": "2",
      "Score": null
    },
    },
    "P3HC_Report": {
      "Answer": "2",
      "Score": null
    },
    },
    "P4Q1": {
      "Answer": "2",
      "Score": null
    },
    },
    "P4Q2": {
      "Answer": "2",
      "Score": null
    },
    },
    "P4Q3": {
      "Answer": "2",
      "Score": null
    }
  }

```

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```

    },
    "P4Q4": {
      "Answer": "2",
      "Score": null
    },
    "P4Q5": {
      "Answer": "2",
      "Score": null
    },
    "P5Q1": {
      "Answer": {
        "date": "2021-10-01",
        "person": "???",
        "problem": "??",
        "solution": "??"
      },
      "Score": null
    },
    "P5Q2": {
      "Answer": {
        "date": "2021-10-01",
        "person": "????",
        "problem": "??",
        "solution": "??"
      },
      "Score": null
    }
  }
}

```

12.3.3 Insert/Update OD check list

POST /api-checklist/v1/od/update

Insert/Update OD check list

Parse as json:

```

{
  "Code_OD_T": "0102",
  "Code_Prov_T": "01",
  "Detail": {
    "P1Q1_1": {
      "Answer": {
        "other": "",
        "tick": "No"
      },
      "Score": 0
    },
    "P1Q1_2": {
      "Answer": {
        "other": "",
        "tick": "No"
      },
      "Score": 0
    }
  }
}

```

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```

"P1Q1_3": {
  "Answer": {
    "other": "",
    "tick": "No"
  },
  "Score": 0
},
"P1Q2_1": {
  "Answer": {
    "plan": "3",
    "result": "3"
  },
  "Score": 1.67
},
"P1Q2_2": {
  "Answer": {
    "plan": "11",
    "result": "1"
  },
  "Score": 0.15
},
"P1Q2_3": {
  "Answer": {
    "plan": "1",
    "result": "1"
  },
  "Score": 1.67
},
"P1Q3_1": {
  "Answer": {
    "other": "",
    "tick": "No"
  },
  "Score": 0
},
"P1Q3_2": {
  "Answer": {
    "other": "",
    "tick": "No"
  },
  "Score": 0
},
"P1Q3_3": {
  "Answer": {
    "other": "",
    "tick": "No"
  },
  "Score": 0
},
"P1Q4": {
  "Answer": {
    "other": "",
    "tick": "No"
  },
  "Score": 0
},

```

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```

"P1Q5": {
  "Answer": {
    "other": "",
    "tick": "Yes"
  },
  "Score": 15
},
"P1Q6": {
  "Answer": {
    "other": "",
    "tick": "Yes"
  },
  "Score": 5
},
"P1Q7": {
  "Answer": {
    "other": "",
    "tick": "Yes"
  },
  "Score": 5
},
"P1Q8_1": {
  "Answer": {
    "plan": "15",
    "result": "2"
  },
  "Score": 0.4
},
"P1Q8_2": {
  "Answer": {
    "plan": "8",
    "result": "2"
  },
  "Score": 0.25
},
"P1Q8_3": {
  "Answer": {
    "plan": "50",
    "result": "2"
  },
  "Score": 0.08
},
"P2Q1": {
  "Answer": {
    "amc": "2",
    "balance": "2",
    "stockin": "2",
    "stockout": "2",
    "tick": "Under"
  },
  "Score": 0.5
},
"P2Q2": {
  "Answer": {
    "amc": "2",
    "balance": "2",

```

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```

        "stockin": "2",
        "stockout": "2",
        "tick": "Under"
    },
    "Score": 0.5
},
"P2Q3": {
    "Answer": {
        "amc": "2",
        "balance": "2",
        "stockin": "2",
        "stockout": "2",
        "tick": "Under"
    },
    "Score": 0.5
},
"P2Q4": {
    "Answer": {
        "amc": "2",
        "balance": "2",
        "stockin": "2",
        "stockout": "2",
        "tick": "Under"
    },
    "Score": 0.25
},
"P2Q5": {
    "Answer": {
        "amc": "2",
        "balance": "2",
        "stockin": "2",
        "stockout": "2",
        "tick": "Under"
    },
    "Score": 0.25
},
"P3HC_Death": {
    "Answer": "2",
    "Score": 0.56
},
"P3HC_Minor": {
    "Answer": "2",
    "Score": 0.56
},
"P3HC_Mix": {
    "Answer": "2",
    "Score": 0.56
},
"P3HC_Pf": {
    "Answer": "2",
    "Score": 0.56
},
"P3HC_Positive": {
    "Answer": "2",
    "Score": 0.56
},

```

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```

"P3HC_Pv": {
  "Answer": "2",
  "Score": 0.56
},
"P3HC_Report": {
  "Answer": "2",
  "Score": 0.01
},
"P3HC_Severe": {
  "Answer": "2",
  "Score": 0
},
"P3HC_Test": {
  "Answer": "2",
  "Score": 0
},
"P3VMW_Death": {
  "Answer": "2",
  "Score": 0.56
},
"P3VMW_Minor": {
  "Answer": "2",
  "Score": 0.56
},
"P3VMW_Mix": {
  "Answer": "2",
  "Score": 0.56
},
"P3VMW_Pf": {
  "Answer": "2",
  "Score": 0.56
},
"P3VMW_Positive": {
  "Answer": "2",
  "Score": 0.56
},
"P3VMW_Pv": {
  "Answer": "2",
  "Score": 0.56
},
"P3VMW_Report": {
  "Answer": "2",
  "Score": 0.01
},
"P3VMW_Severe": {
  "Answer": "2",
  "Score": 0
},
"P3VMW_Test": {
  "Answer": "32",
  "Score": 0.02
},
"P4Q1": {
  "Answer": "2",
  "Score": 12
},

```

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```

    "P4Q2": {
      "Answer": "2",
      "Score": 4.5
    },
    "P4Q3": {
      "Answer": "2",
      "Score": 4.5
    },
    "P4Q4": {
      "Answer": "2",
      "Score": 4.5
    },
    "P4Q5": {
      "Answer": "2",
      "Score": 4.5
    },
    "P5Q1": {
      "Answer": {
        "date": "2021-10-01",
        "person": "áž,,áž áŸ' ",
        "problem": "ážáž",
        "solution": "áž,,áž"
      },
      "Score": 0
    },
    "P5Q2": {
      "Answer": {
        "date": "2021-10-01",
        "person": "áž,,ážšážážš",
        "problem": "ážáž,,",
        "solution": "áž,,áž,,",
      },
      "Score": 0
    }
  },
  "Part1Score": 34.19,
  "Part2Score": 2,
  "Part3Score": 0,
  "Part4Score": 0,
  "Quarter": "2021 Q3",
  "Rec_ID": 25,
  "VisitDate": "2021-10-01",
  "VisitorName": "ážážážŸážŸáŸ' áž",
  "VisitorSex": "F"
}

```

Note: if Rec_ID is 0 or null, it will insert new

if Rec_ID > 0, it will update

12.3.4 OD check list additional data

POST /api-checklist/v1/od/misdata

Get additional data of OD checklist

Parse as json:

```
{
  "Code_OD_T": "0102",
  "Quarter": 1
}
```

Response as json:

```
{
  "stockReport": 0,
  "stockACT": 92,
  "stockRDT": 100,
  "vmwTest": 0,
  "vmwPositive": null,
  "vmwPf": null,
  "vmwPv": null,
  "vmwMix": null,
  "vmwMinor": null,
  "vmwSevere": null,
  "vmwDeath": 0,
  "vmwReport": null,
  "hcTest": 0,
  "hcPositive": null,
  "hcPf": null,
  "hcPv": null,
  "hcMix": null,
  "hcMinor": null,
  "hcSevere": null,
  "hcDeath": 0,
  "hcReport": null,
  "pf": null,
  "pv": null,
  "mix": null,
  "pfL1": null,
  "pfLC": null,
  "pvL1": null,
  "pvLC": null,
  "mixL1": null,
  "mixLC": null,
  "pfFoci": null,
  "pvFoci": 0,
  "mixFoci": null
}
```


12.4 EPI check list

12.4.1 EPI check list

POST /api-checklist/v1/epi/list

Get list data of EPI checklist

Parse as json:

```
{
  "Code_Prov_T": "01",
  "Code_OD_T": "",
  "Code_Facility_T": ""
}
```

Response as json:

```
[
  {
    "Rec_ID": 8,
    "Code_Facility_T": "010402",
    "Quarter": "2021 Q3",
    "VisitDate": "2021-11-08",
    "VisitorName": "vanna",
    "VisitorSex": "M",
    "VisitorPosition": "data",
    "VisitorPhone": "0967333347",
    "VisitorWorkplace": "CNM",
    "Part1Score": 89,
    "Part2Score": 99,
    "Code_Prov_T": "01",
    "Code_OD_T": "0104"
  },
  {
    "Rec_ID": 13,
    "Code_Facility_T": "010203",
    "Quarter": "2021 Q1",
    "VisitDate": "2022-01-04",
    "VisitorName": "i",
    "VisitorSex": "F",
    "VisitorPosition": "k",
    "VisitorPhone": "55",
    "VisitorWorkplace": "Province",
    "Part1Score": 2,
    "Part2Score": 6,
    "Code_Prov_T": "01",
    "Code_OD_T": "0102"
  }
]
```

12.4.2 EPI check list detail

POST /api-checklist/v1/epi/detail

Get detail data of EPI checklist

Parse as json:

```
{
  "Rec_ID": 123
}
```

Response as json:

```
{
  "Rec_ID": 8,
  "Code_Facility_T": "010402",
  "Quarter": "2021 Q3",
  "VisitDate": "2021-11-08",
  "VisitorName": "vanna",
  "VisitorSex": "M",
  "VisitorPosition": "data",
  "VisitorPhone": "0967333347",
  "VisitorWorkplace": "CNM",
  "Part1Score": 89,
  "Part2Score": 99,
  "Code_Prov_T": "01",
  "Code_OD_T": "0104",
  "Detail": {
    "Q1": {
      "Answer": {
        "lastYear": {
          "hc": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "2",
            "value2": "1",
            "value3": "6",
            "year": "2021"
          },
          "total": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "4",
            "value2": "4",
            "value3": "11",
            "year": "2021"
          },
          "vmw": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "2",
            "value2": "2",
            "value3": "2",
            "year": "2021"
          }
        }
      }
    }
  }
}
```

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```

    },
    "thisYear": {
      "hc": {
        "month1": "8",
        "month2": "9",
        "month3": "9",
        "value1": "1",
        "value2": "2",
        "value3": "3",
        "year": "2020"
      },
      "total": {
        "month1": "8",
        "month2": "9",
        "month3": "9",
        "value1": "2",
        "value2": "4",
        "value3": "6",
        "year": "2020"
      },
      "vmw": {
        "month1": "8",
        "month2": "9",
        "month3": "9",
        "value1": "1",
        "value2": "1",
        "value3": "1",
        "year": "2020"
      }
    },
    "Score": 0
  },
  "Q2": {
    "Answer": {
      "lastYear": {
        "hc": {
          "month1": "8",
          "month2": "9",
          "month3": "10",
          "value1": "0",
          "value2": "0",
          "value3": "0",
          "year": "2021"
        },
        "total": {
          "month1": "8",
          "month2": "9",
          "month3": "10",
          "value1": "0",
          "value2": "0",
          "value3": "0",
          "year": "2021"
        },
        "vmw": {
          "month1": "8",

```

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```

        "month2": "9",
        "month3": "10",
        "value1": "0",
        "value2": "0",
        "value3": "0",
        "year": "2021"
    },
    },
    "thisYear": {
        "hc": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "1",
            "value2": "1",
            "value3": "1",
            "year": "2020"
        },
        "total": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "2",
            "value2": "2",
            "value3": "2",
            "year": "2020"
        },
    },
    "vmw": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "1",
        "value2": "1",
        "value3": "1",
        "year": "2020"
    },
    },
    "Score": 0
},
"Q3": {
    "Answer": {
        "lastYear": {
            "hc": {
                "month1": "8",
                "month2": "9",
                "month3": "10",
                "value1": "0",
                "value2": "0",
                "value3": "0",
                "year": "2021"
            },
            "total": {
                "month1": "8",
                "month2": "9",
                "month3": "10",
            }
        }
    }
}

```

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```

        "value1": "0",
        "value2": "0",
        "value3": "0",
        "year": "2021"
    },
    "vmw": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "0",
        "value2": "0",
        "value3": "0",
        "year": "2021"
    }
},
"thisYear": {
    "hc": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "0",
        "value2": "0",
        "value3": "0",
        "year": "2020"
    },
    "total": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "0",
        "value2": "0",
        "value3": "0",
        "year": "2020"
    },
    "vmw": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "0",
        "value2": "0",
        "value3": "0",
        "year": "2020"
    }
},
"Score": 0
},
"Q4": {
    "Answer": {
        "lastYear": {
            "hc": {
                "month1": "8",
                "month2": "9",
                "month3": "10",
                "value1": "0",
                "value2": "0",

```

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```

        "value3": "0",
        "year": "2021"
    },
    "total": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "0",
        "value2": "0",
        "value3": "0",
        "year": "2021"
    },
    "vmw": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "0",
        "value2": "0",
        "value3": "0",
        "year": "2021"
    }
},
    "thisYear": {
        "hc": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "0",
            "value2": "0",
            "value3": "0",
            "year": "2020"
        },
        "total": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "0",
            "value2": "0",
            "value3": "0",
            "year": "2020"
        },
        "vmw": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "0",
            "value2": "0",
            "value3": "0",
            "year": "2020"
        }
    }
},
    "Score": 0
},
    "Q5": {
        "Answer": {

```

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```

      "hc": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "0",
        "value2": "0",
        "value3": "0",
        "year": "2021"
      },
      "total": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "0",
        "value2": "0",
        "value3": "0",
        "year": "2021"
      },
      "vmw": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "0",
        "value2": "0",
        "value3": "0",
        "year": "2021"
      }
    },
    "Score": 0
  },
  "Q6": {
    "Answer": {
      "hc": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "0",
        "value2": "0",
        "value3": "0",
        "year": "2021"
      },
      "total": {
        "month1": "",
        "month2": "",
        "month3": "",
        "value1": "",
        "value2": "",
        "value3": "",
        "year": ""
      },
      "vmw": {
        "month1": "",
        "month2": "",
        "month3": "",
        "value1": "",
        "value2": "",

```

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```

        "value3": "",
        "year": ""
    },
    },
    "Score": 0
},
"Q7": {
    "Answer": {
        "hc": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "0",
            "value2": "0",
            "value3": "0",
            "year": "2021"
        },
        "total": {
            "month1": "",
            "month2": "",
            "month3": "",
            "value1": "",
            "value2": "",
            "value3": "",
            "year": ""
        },
        "vmw": {
            "month1": "",
            "month2": "",
            "month3": "",
            "value1": "",
            "value2": "",
            "value3": "",
            "year": ""
        }
    },
    "Score": 0
},
"Q8": {
    "Answer": {
        "hc": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "0",
            "value2": "0",
            "value3": "0",
            "year": "2021"
        },
        "total": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "0",
            "value2": "0",
            "value3": "0",

```

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```

        "year": "2021"
      },
      "vmw": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "0",
        "value2": "0",
        "value3": "0",
        "year": "2021"
      }
    },
    "Score": 0
  },
  "Q9": {
    "Answer": "?????????",
    "Score": 0
  },
  "Q10": {
    "Answer": "???",
    "Score": 0
  },
  "P1Q1": {
    "Answer": {
      "hc": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "0",
        "value2": "0",
        "value3": "0",
        "year": "2021"
      }
    },
    "total": {
      "month1": "8",
      "month2": "9",
      "month3": "10",
      "value1": "0",
      "value2": "0",
      "value3": "0",
      "year": "2021"
    }
  },
  "vmw": {
    "month1": "8",
    "month2": "7",
    "month3": "10",
    "value1": "0",
    "value2": "0",
    "value3": "0",
    "year": "2021"
  }
},
"Score": 10
},
"P1Q2": {
  "Answer": {

```

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```

      "hc": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "0",
        "value2": "0",
        "value3": "0",
        "year": "2021"
      },
      "total": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "0",
        "value2": "0",
        "value3": "0",
        "year": "2021"
      },
      "vmw": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "0",
        "value2": "0",
        "value3": "0",
        "year": "2021"
      }
    },
    "Score": 14
  },
  "P1Q3": {
    "Answer": {
      "other": "",
      "tick": [
        "No internet"
      ]
    },
    "Score": 0
  },
  "P1Q4": {
    "Answer": {
      "hc": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "0",
        "value2": "0",
        "value3": "0",
        "year": "2021"
      },
      "total": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "0",
        "value2": "0",

```

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```

        "value3": "0",
        "year": "2021"
    },
    "vmw": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "0",
        "value2": "0",
        "value3": "0",
        "year": "2021"
    }
},
"Score": 15
},
"P1Q5": {
    "Answer": {
        "other": "",
        "tick": [
            "No internet"
        ]
    },
    "Score": 0
},
"P1Q6": {
    "Answer": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "0",
        "value2": "0",
        "value3": "0",
        "year": "2021"
    },
    "Score": 10
},
"P1Q6_1": {
    "Answer": "50",
    "Score": 0
},
"P1Q7": {
    "Answer": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "0",
        "value2": "0",
        "value3": "0",
        "year": "2021"
    },
    "Score": 10
},
"P1Q7_1": {
    "Answer": "50",
    "Score": 0
},

```

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```

"P1Q8": {
  "Answer": {
    "other": "",
    "tick": [
      "Far village",
      "Not enough staff",
      "Passing patient",
      "No reports from VMW",
      "Wait for OD"
    ]
  },
  "Score": 0
},
"P1Q9": {
  "Answer": {
    "paper": {
      "IMP": "0",
      "L1": "0",
      "L2": "0",
      "L3": "0",
      "L4": "0"
    },
    "tablet": {
      "IMP": "0",
      "L1": "0",
      "L2": "0",
      "L3": "0",
      "L4": "0"
    }
  },
  "Score": 5
},
"P1Q10": {
  "Answer": {
    "other": "",
    "tick": "No"
  },
  "Score": 5
},
"P1Q11": {
  "Answer": {
    "other": "",
    "percent1": "0",
    "percent2": "",
    "percent3": "",
    "qty1": "0",
    "qty2": "",
    "qty3": "",
    "tick": "Under 7 days"
  },
  "Score": 20
},
"P2Q1": {
  "Answer": {
    "other": "",
    "percent1": "0",

```

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```

        "percent2": "",
        "percent3": "",
        "qty1": "0",
        "qty2": "",
        "qty3": "",
        "tick": "Under 14 days"
    },
    "Score": 20
},
"P2Q2": {
    "Answer": {
        "other": "",
        "qty1": "0",
        "qty2": "",
        "qty3": "",
        "tick": "Full"
    },
    "Score": 20
},
"P2Q3": {
    "Answer": {
        "other": "",
        "qty1": "0",
        "qty2": "",
        "qty3": "",
        "tick": "Draw"
    },
    "Score": 20
},
"P2Q4": {
    "Answer": {
        "other": "",
        "qty1": "0",
        "qty2": "",
        "qty3": "",
        "tick": "Done"
    },
    "Score": 19
},
"P2Q5": {
    "Answer": {
        "bednet": "0",
        "educate": "0",
        "test": "0"
    },
    "Score": 20
},
"Request": {
    "Answer": "???",
    "Score": 0
}
}
}

```

12.4.3 Insert/Update EPI check list

POST /api-checklist/v1/epi/detail

Insert/Update data of EPI checklist

Parse as json:

```
{
  "Code_Facility_T": "010203",
  "Detail": {
    "P1Q1": {
      "Answer": {
        "hc": {
          "month1": "8",
          "month2": "9",
          "month3": "10",
          "value1": "1",
          "value2": "1",
          "value3": "1",
          "year": "2021"
        },
        "total": {
          "month1": "8",
          "month2": "9",
          "month3": "10",
          "value1": "2",
          "value2": "2",
          "value3": "2",
          "year": "2021"
        },
        "vmw": {
          "month1": "8",
          "month2": "9",
          "month3": "10",
          "value1": "1",
          "value2": "1",
          "value3": "1",
          "year": "2021"
        }
      },
      "Score": 0
    },
    "P1Q10": {
      "Answer": {
        "other": "",
        "tick": "Yes"
      },
      "Score": 0
    },
    "P1Q11": {
      "Answer": {
        "other": "",
        "percent1": "5",
        "percent2": "",
        "percent3": "",
        "qty1": "5",
        "qty2": "",
        "qty3": ""
      }
    }
  }
}
```

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```

        "tick": "Under 7 days"
    },
    "Score": 0
},
"P1Q2": {
    "Answer": {
        "hc": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "1",
            "value2": "1",
            "value3": "1",
            "year": "2021"
        },
        "total": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "2",
            "value2": "2",
            "value3": "2",
            "year": "2021"
        },
        "vmw": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "1",
            "value2": "1",
            "value3": "1",
            "year": "2021"
        }
    },
    "Score": 0
},
"P1Q3": {
    "Answer": {
        "other": "",
        "tick": [
            "Phone\Tablet broken"
        ]
    },
    "Score": 0
},
"P1Q4": {
    "Answer": {
        "hc": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "1",
            "value2": "1",
            "value3": "1",
            "year": "2021"
        }
    },

```

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```

        "total": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "2",
            "value2": "2",
            "value3": "2",
            "year": "2021"
        },
        "vmw": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "1",
            "value2": "1",
            "value3": "1",
            "year": "2021"
        }
    },
    "Score": 0
},
"P1Q5": {
    "Answer": {
        "other": "",
        "tick": [
            "Tablet broken"
        ]
    },
    "Score": 0
},
"P1Q6": {
    "Answer": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "1",
        "value2": "1",
        "value3": "1",
        "year": "2021"
    },
    "Score": 2
},
"P1Q6_1": {
    "Answer": "10",
    "Score": 0
},
"P1Q7": {
    "Answer": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "1",
        "value2": "1",
        "value3": "1",
        "year": "2021"
    },

```

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```

        "Score": 0
    },
    "P1Q7_1": {
        "Answer": "30",
        "Score": 0
    },
    "P1Q8": {
        "Answer": {
            "other": "ooi",
            "tick": [
                "Other"
            ]
        },
        "Score": 0
    },
    "P1Q9": {
        "Answer": {
            "paper": {
                "IMP": "2",
                "L1": "5",
                "L2": "8",
                "L3": "6",
                "L4": "5"
            },
            "tablet": {
                "IMP": "5",
                "L1": "5",
                "L2": "5",
                "L3": "2",
                "L4": "5"
            }
        },
        "Score": 0
    },
    "P2Q1": {
        "Answer": {
            "other": "",
            "percent1": "5",
            "percent2": "",
            "percent3": "",
            "qty1": "4",
            "qty2": "",
            "qty3": "",
            "tick": "Under 14 days"
        },
        "Score": 0
    },
    "P2Q2": {
        "Answer": {
            "other": "",
            "qty1": "55",
            "qty2": "",
            "qty3": "",
            "tick": "Full"
        },
        "Score": 6
    }

```

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```

    },
    "P2Q3": {
      "Answer": {
        "other": "",
        "qty1": "5",
        "qty2": "",
        "qty3": "",
        "tick": "Draw"
      },
      "Score": 0
    },
    "P2Q4": {
      "Answer": {
        "other": "",
        "qty1": "55",
        "qty2": "",
        "qty3": "",
        "tick": "Done"
      },
      "Score": 0
    },
    "P2Q5": {
      "Answer": {
        "bednet": "5",
        "educate": "8",
        "test": "8"
      },
      "Score": 0
    },
    "Q1": {
      "Answer": {
        "lastYear": {
          "hc": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "1",
            "value2": "1",
            "value3": "1",
            "year": "2021"
          },
          "total": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "2",
            "value2": "2",
            "value3": "2",
            "year": "2021"
          }
        },
        "vmw": {
          "month1": "8",
          "month2": "9",
          "month3": "10",
          "value1": "1",
          "value2": "1",

```

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```

        "value3": "1",
        "year": "2021"
    },
    },
    "thisYear": {
        "hc": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "1",
            "value2": "1",
            "value3": "1",
            "year": "2021"
        },
        "total": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "2",
            "value2": "2",
            "value3": "2",
            "year": "2021"
        },
        "vmw": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "1",
            "value2": "1",
            "value3": "1",
            "year": "2021"
        }
    },
    },
    "Score": 0
},
"Q10": {
    "Answer": "i",
    "Score": 0
},
"Q2": {
    "Answer": {
        "lastYear": {
            "hc": {
                "month1": "8",
                "month2": "9",
                "month3": "10",
                "value1": "1",
                "value2": "1",
                "value3": "1",
                "year": "2021"
            },
            "total": {
                "month1": "8",
                "month2": "9",
                "month3": "10",

```

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```

        "value1": "2",
        "value2": "2",
        "value3": "2",
        "year": "2021"
    },
    "vmw": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "1",
        "value2": "1",
        "value3": "1",
        "year": "2021"
    }
},
"thisYear": {
    "hc": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "1",
        "value2": "1",
        "value3": "1",
        "year": "2021"
    },
    "total": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "2",
        "value2": "2",
        "value3": "2",
        "year": "2021"
    },
    "vmw": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "1",
        "value2": "1",
        "value3": "1",
        "year": "2021"
    }
},
"Score": 0
},
"Q3": {
    "Answer": {
        "lastYear": {
            "hc": {
                "month1": "8",
                "month2": "9",
                "month3": "10",
                "value1": "1",
                "value2": "1",

```

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```

        "value3": "1",
        "year": "2021"
    },
    "total": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "2",
        "value2": "2",
        "value3": "2",
        "year": "2021"
    },
    "vmw": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "1",
        "value2": "1",
        "value3": "1",
        "year": "2021"
    }
},
    "thisYear": {
        "hc": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "1",
            "value2": "1",
            "value3": "1",
            "year": "2021"
        },
        "total": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "2",
            "value2": "2",
            "value3": "2",
            "year": "2021"
        },
        "vmw": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "1",
            "value2": "1",
            "value3": "1",
            "year": "2021"
        }
    }
},
    "Score": 0
},
    "Q4": {
        "Answer": {

```

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```

    "lastYear": {
      "hc": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "1",
        "value2": "1",
        "value3": "1",
        "year": "2021"
      },
      "total": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "2",
        "value2": "2",
        "value3": "2",
        "year": "2021"
      },
      "vmw": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "1",
        "value2": "1",
        "value3": "1",
        "year": "2021"
      }
    },
    "thisYear": {
      "hc": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "1",
        "value2": "1",
        "value3": "1",
        "year": "2021"
      },
      "total": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "2",
        "value2": "2",
        "value3": "2",
        "year": "2021"
      },
      "vmw": {
        "month1": "8",
        "month2": "9",
        "month3": "10",
        "value1": "1",
        "value2": "1",
        "value3": "1",
        "year": "2021"
      }
    }
  }

```

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```

    }
  },
  "Score": 0
},
"Q5": {
  "Answer": {
    "hc": {
      "month1": "8",
      "month2": "9",
      "month3": "10",
      "value1": "1",
      "value2": "1",
      "value3": "1",
      "year": "2021"
    },
    "total": {
      "month1": "8",
      "month2": "9",
      "month3": "10",
      "value1": "2",
      "value2": "2",
      "value3": "2",
      "year": "2021"
    },
    "vmw": {
      "month1": "8",
      "month2": "9",
      "month3": "10",
      "value1": "1",
      "value2": "1",
      "value3": "1",
      "year": "2021"
    }
  },
  "Score": 0
},
"Q6": {
  "Answer": {
    "hc": {
      "month1": "8",
      "month2": "9",
      "month3": "10",
      "value1": "1",
      "value2": "1",
      "value3": "1",
      "year": "2021"
    },
    "total": {
      "month1": "8",
      "month2": "9",
      "month3": "10",
      "value1": "2",
      "value2": "2",
      "value3": "2",
      "year": "2021"
    }
  }
}

```

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```

    },
    "vmw": {
      "month1": "8",
      "month2": "9",
      "month3": "10",
      "value1": "1",
      "value2": "1",
      "value3": "1",
      "year": "2021"
    }
  },
  "Score": 0
},
"Q7": {
  "Answer": {
    "hc": {
      "month1": "8",
      "month2": "9",
      "month3": "10",
      "value1": "1",
      "value2": "1",
      "value3": "1",
      "year": "2021"
    },
    "total": {
      "month1": "8",
      "month2": "9",
      "month3": "10",
      "value1": "2",
      "value2": "2",
      "value3": "2",
      "year": "2021"
    }
  },
  "vmw": {
    "month1": "8",
    "month2": "9",
    "month3": "10",
    "value1": "1",
    "value2": "1",
    "value3": "1",
    "year": "2021"
  }
},
"Score": 0
},
"Q8": {
  "Answer": {
    "hc": {
      "month1": "8",
      "month2": "9",
      "month3": "10",
      "value1": "1",
      "value2": "1",
      "value3": "1",
      "year": "2021"
    }
  },

```

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```

        "total": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "2",
            "value2": "2",
            "value3": "2",
            "year": "2021"
        },
        "vmw": {
            "month1": "8",
            "month2": "9",
            "month3": "10",
            "value1": "1",
            "value2": "1",
            "value3": "1",
            "year": "2021"
        }
    },
    "Score": 0
},
"Q9": {
    "Answer": "i",
    "Score": 0
},
"Request": {
    "Answer": "ko",
    "Score": 0
}
},
"Part1Score": 2,
"Part2Score": 6,
"Quarter": "2021 Q1",
"Rec_ID": 13,
"VisitDate": "2022-01-04",
"VisitorName": "i",
"VisitorPhone": "55",
"VisitorPosition": "k",
"VisitorSex": "F",
"VisitorWorkplace": "Province"
}

```

API V1 OF TRAINING

13.1 Material

GET /api-training/v1/material/list

To get list of material file: PDF, Slide, Video

Response as json:

```
{
  "code": 200,
  "message": "success",
  "data": [
    {
      "Rec_ID": 1,
      "Title": "Documentation",
      "Source": "https://drive.google.com/file/d/13ozAFcTGX-
↪C5HD1rz3XUpioeeVK83KQU/preview",
      "Category": "PDF",
      "Audience": "HC"
    },
    {
      "Rec_ID": 2,
      "Title": "Video",
      "Source": "qUotrP3M-Dc",
      "Category": "Video",
      "Audience": "VMW"
    }
  ]
}
```

Object

- Category (string) –type of Source. e.g: PDF, Slide, Video.
- Audience (string) –HC/VMW.
- Source (string) –if Category is Video then Source is a video ID of youtube. If Category is PDF or Slide then Source is a link embeded from google drive

13.2 Quiz Question

GET /api-training/v1/quiz/list

To get list of Questionaire.

Response as json:

```
{
  "code": 200,
  "message": "success",
  "data": [
    {
      "Rec_ID": 2,
      "Question": "?????????????????????????????????",
      "Answers": [
        {
          "Rec_ID": 5,
          "Answer": "24",
          "IsCorrect": 1,
          "QuestionID": 2
        },
        {
          "Rec_ID": 6,
          "Answer": "45",
          "IsCorrect": 0,
          "QuestionID": 2
        },
        {
          "Rec_ID": 7,
          "Answer": "73",
          "IsCorrect": 0,
          "QuestionID": 2
        },
        {
          "Rec_ID": 8,
          "Answer": "21",
          "IsCorrect": 0,
          "QuestionID": 2
        }
      ]
    }
  ]
}
```

Object

- IsCorrect (bit) –if it is a correct answer its value is 1 otherwise 0

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