

Interface Specifications

Saudi German Hospitals KSA

TrakCare – Mobile App Integration



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Note: This document accurately reflects the overall integration flow.
As agreed, API scope will follow the shared technical document,
allowing for 2–10% variation in parameters and response datasets.

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1. Introduction

1.1. Overview

The purpose of this document is to describe and define the functional and technical specifications for the mobile application integration at Saudi German Hospital (SGH).

This document defines both the specifications and technical design for the interface which consist of inbound REST/JSON webservice methods.

1.2. Assumptions

- IRIS For Health will be used as the middleware for interfacing with Mobile App.
- REST/JSON will be used as interface format for the webservice methods.
- All inbound methods will use JWT authentication; tokens will be generated and signed by InterSystems.
- Connectivity to the Mobile App will be established through Saudi German - KSA network.
- Standard HTTP response codes will be returned to the Mobile App according to best practices, for example:
 - 200 – Request successful
 - 204 – No data found
 - 400 – Bad request (malformed or invalid payload)
 - 401 – Unauthorized (invalid or missing JWT)
 - 404 – Resource not found
 - 500 – Internal server error (TrakCare)
- All the data related to laboratory and radiology results, and medications will be fetched and cached as soon as a patient login API request is received.
- In case of a request for an endpoint related to the sections described above the data will be fetched from the cache instead of real data from TrakCare database. The cache will be cleared in case of patient inactivity (no API calls) within 5 minutes or a new patient login request for the same patient.
- Security and Privacy of patient data shared in the response payloads will be SGH responsibility to make sure data is maintained in secure way in patient portal and mobile applications and does not violate any patient privacy or law.

2. Business Workflows

2.1. Overview

This section outlines the functional use cases that involve integration points between the SGH Mobile Application and the Trakcare Electronic Health Record (EHR) system. There are multiple streams of data that will be sent unidirectionally for information purposes from TrakCare to the Mobile Application for the patient to view. This will not have a workflow impact within TrakCare and therefore will not be listed in this section. Please refer to the “REST webservice” section of this document for this information.

2.2. Registration workflow

2.2.1. Initial patient registration

On registration within the Mobile Application, the following process will be triggered:

- An API will be triggered to match the patient details entered with the TrakCare patient database.
- If the patient record exists within TrakCare a confirmation will be returned to Mobile Application.
- However, if the patient record does not already exist within TrakCare, a new patient will be created within TrakCare.
 - Saudi German KSA team will be responsible for data quality and to validating patient information with NHIC webservices prior to requesting the patient creation in TrakCare.
- The data fields populated on patient registration will be defined according to the minimum required dataset defined for registering a patient within TrakCare.

2.2.2. Changing demographic information

Within the Mobile Application patient's will be able to change certain demographic information which does not impact functionality within TrakCare:

- Mobile number
- Email
- Gender
- Date of birth
- Marital status

This information will be sent to TrakCare and updated within the patient's demographic information on the registration screen. For “gender” and “marital status” fields, the same dataset will need to be maintained in both systems.

2.3. Appointment workflows

2.3.1. Appointment booking

To book appointments within TrakCare, a bidirectional exchange of data will be required following the workflow below:

- As a part of the master data sync patients will only be able to see certain departments and care providers when choosing an appointment booking.
- When the branch, department and care provider is selected this information is passed to TrakCare.
- TrakCare will return the slot information for that care provider / department combination for the available and unavailable slots.
- The service selection logic will be run by TrakCare based on the information passed by the Mobile Application and the patient's recent episodes within the last 14-day period.
- Once a patient selects a slot in the Mobile Application, the information is passed to TrakCare and the appointment is booked for that patient.

2.3.2. Appointment cancellation

- Patients will be able to see all their future booked appointments within the Mobile Application.
- If they wish to cancel an appointment within the mobile application, this will trigger the integration and the required appointment information will be passed to TrakCare,
- The appointment is cancelled in TrakCare with a pre-defined "Reason for cancellation".

2.4. Patient billing

For outpatient emergency episodes, TrakCare will send the patient's "outstanding" amount per service, from the patient bill line in TrakCare. This will apply to all order items (services) **except any order item with a Billing Group of "Pharmacy"**.

For outpatient and emergency episodes, the following workflow will be followed:

- Once services arrive onto a patient bill in TrakCare this will initiate the integration with the mobile application.
- TrakCare will send the outstanding amount for this patient to the mobile application per service.
- The mobile application will facilitate payment of the outstanding amount, either per item or total amount.
- Once a bill is paid the mobile application will send a confirmation of the payment to TrakCare per item.
- Within TrakCare this will either close the whole outstanding bill for the patient or remove that specific item from the whole amount and record a payment against this item.
- This will generate an invoice for the items that have been paid.

2.4.1. Inpatient billing

For inpatient episodes, TrakCare **will not send** item level billing information to the mobile application. For inpatient episodes the following workflow will be followed:

- The normal financial discharge workflow is followed to ensure correct items appear on the patient bill with all the correct charges present.

- If the patient is going to pay via the mobile application, a collection will be recorded manually in the system with an amount collected of **zero**.
- The total outstanding amount for this episode will be sent to the mobile application.
- The mobile application will facilitate payment of this full amount only and send the payment confirmation to TrakCare.
- TrakCare will update this outstanding amount as paid.

2.5. Item approval status workflow

Approval statuses will be shared on an item-by-item basis – however the list of statuses will be defined during the development phase of this integration.

3. REST Webservices

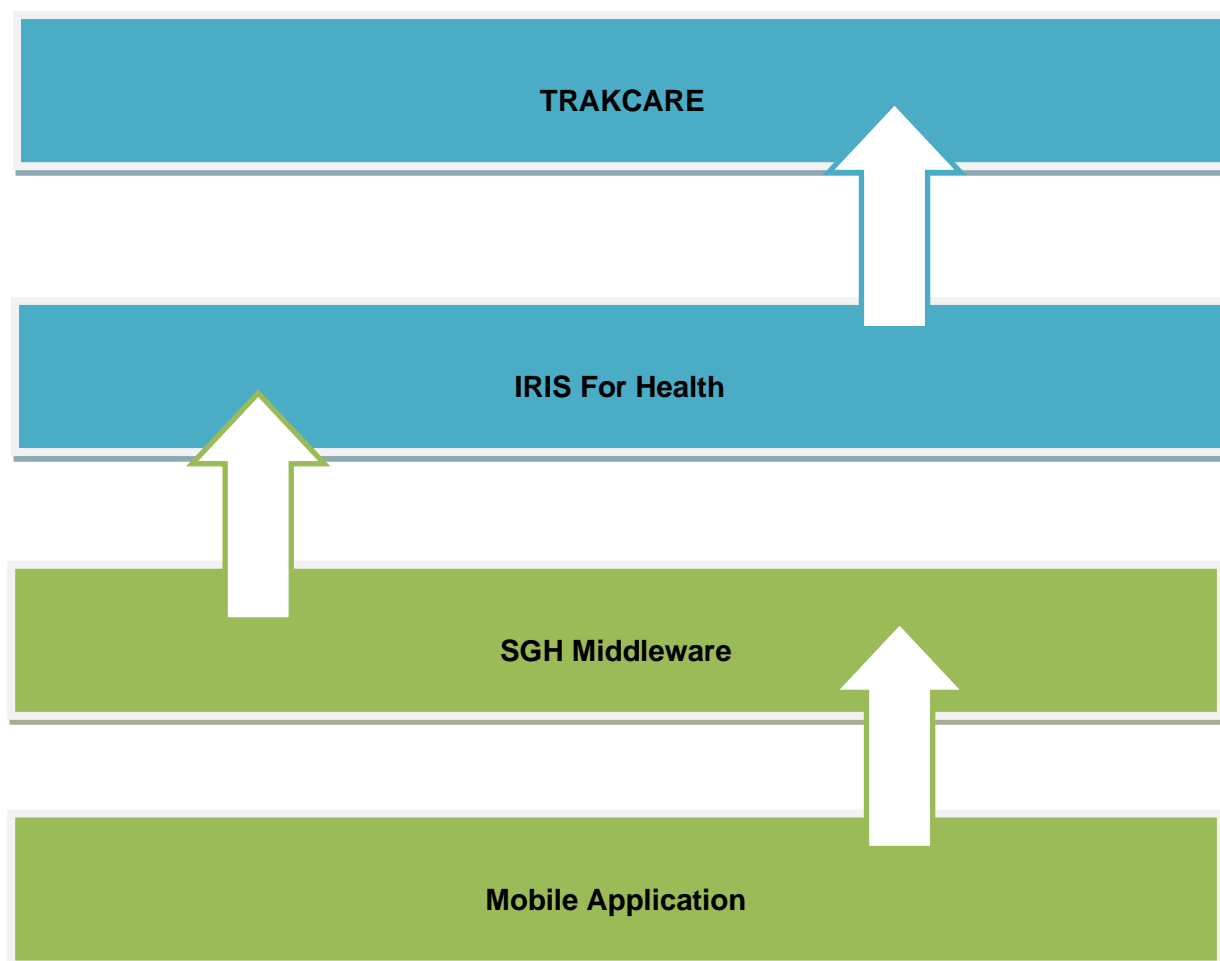
3.1. Overview

To have this integration working as intended, InterSystems will provide webservices so that mobile application can retrieve information from TrakCare on a real time basis.

3.2. Inbound Format

REST/JSON will be used for transmitting requests/responses and will follow all the standards and best practices.

3.3. Interface Components



3.4. Authentication

3.4.1. Supported Methods

Direction	Method	Description
Inbound	GetToken	This method will return the JWT to be used to call other TrakCare APIs

3.4.2. Get Token

Description: This method will be used to obtain a JSON Web Token (JWT) for authenticating all subsequent Mobile App to TrakCare API calls. The Mobile App will issue an HTTPS POST to the authentication endpoint. On success, the service returns a JSON payload containing the token and its expired duration.

Method: POST

Content-Type: application/json

Authentication type: API Key

Response:

- Access Token
- Token Type
- Expires In

Sample request:

<https://api.3rdpartyurl.com/mobileapp/authentication>

Headers:

Content-Type: application/json

API-Key: <to be defined>

Sample request payload: {

```
"access_token": "encrypted token sample",
"token_type": "Bearer",
"expires_in": 3600
```

}

3.5. Patient Information

3.5.1. Supported Methods

Direction	Method	Description
Inbound	GetPatient	This method will return whether if the patient exists or not in TrakCare. If the patient exists, basic information about his/her demographic data will be shared.
Inbound	CreatePatient	This method will be used to create a patient in TrakCare
Inbound	SendPatientSMS	This method will be used to send an SMS to the patient
Inbound	GetPatientInsurance	This method will return all the active insurances (Payor) linked to a patient in TrakCare.
Inbound	UpdatePatient	This method will update the information of an existing patient in TrakCare (email, dob, gender, marital status).

3.5.2. Get Patient

Description: This method will return whether the patient exists in TrakCare or not. If the patient exists, basic demographic information will be shared.

When the patient tries to log in using the “National ID” field, the system will always attempt to match a patient with the same “National ID” in TrakCare.

If the patient log in using the “Mobile Number” field, a list of matching patients will be returned having this mobile number in TrakCare.

Authentication type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Patient Id
- National Id (required if Mobile number is empty)
- Mobile Number (required if National Id is empty)

Response:

- Patient Exist
- Patient Id
- MRN
- National Id
- First Name
- Last Name
- Mobile Number
- E-mail
- Address
- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/patient/login>

Headers:

Content-Type: application/json

Authentication type: JWT Bearer Token Authentication

Sample request payload: {

```
    "national_id": "041831731",
    "mobile_number": "",
}
```

Sample response payload: {

```
    "patient_exists": true,
    "patient_id": 123456,
    "urn": "0505050",
    "national_id ": "041831731",
    "first_name": "Test SGH",
    "last_name": "January",
    "mobile_number": "055555555",
    "email": "test@sgh.com",
    "address": "Block 1, Apt 123, Street 01",
    "status": "Success"
}
```

3.5.3. Create Patient

Description: This method will be used to create a patient in TrakCare. Mapping for “Document type” and “Nationality” properties will need to be mapped by SGH Mobile App team to match existing TrakCare values. Default Payor and Plan ‘Self Pay’ will be assigned to all patients registered by this endpoint.

Status codes for errors will be discussed and agreed between InterSystems and SGH teams during development of this endpoint.

The parameters will be subject to change based on the minimum requirement in TrakCare

Authentication Type: JWT Bearer Token Authentication

Method: POST

URL: /mobileapp/patient

Parameters:

- First Name
- Family Name
- Gender
- Date of Birth
- Marital Status
- Nationality
- Mobile Number

- NationalID
- Document Type [Driving License, GCC Card, National ID, Others, Passport]

Response:

- Patient id (if successfully POST request)
- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/patient>

Headers:

Content-Type: application/json

Authentication type: JWT Bearer Token Authentication

Sample response payload: {

```

    "first_name": "Test",
    "family_name": "Test",
    "gender": "M",
    "date_of_birth": "1991-01-04",
    "nationality": "Brazil",
    "mobile_number": "051515151",
    "document_type": "Passport",
    "document_type_value": "0000000"
  }

```

Sample response payload success: {

```

    "patient_id ": 1,
    "status": "Success"
  }

```

Sample response payload error: {

```

    "status": "Error: Not able to register the patient due to reason XXX"
  }

```

3.5.4. Send Patient SMS

Description: This method will be used to assist the mobile app with sending an SMS message to a patient

Authentication Type: JWT Bearer Token Authentication

Method: POST

URL: /mobileapp/sms

Parameters:

- Patient Id
- Patient Mobile Number
- Text Message

Response:

- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/patient/sms>

Headers:

Content-Type: application/json

Authentication type: JWT Bearer Token Authentication

Sample response payload: {

```
"patient_id": "124",  
"mobile_number": "0509945237",  
"text_message": "Sample SMS text message"  
}
```

Sample response payload: {

```
"status ": "Success"  
}
```

3.5.5. Get Patient Insurance

Description: This method will be used to return all active insurances linked to a Patient.

Authentication Type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Patient Id (required)

Response:

- Patient Id
- Insurance List
 - Id
 - Payor Code
 - Payor Description
 - Plan Code
 - Plan Description
 - Card No
 - Date Active From
 - Date Active To
 - Rank

Sample request:

<https://api.3rdpartyurl.com/mobileapp/patient/insurance?patientid=0505050>

Headers:

Content-Type: application/json

Authentication type: JWT Bearer Token Authentication

Sample request payload: {

"patient_id": "0505050"

}

Sample response payload: {

"patient_id": 0505050,

"insurance_list": [

{

"id": "914141||1",

"payor_code": "SGH01",

"payor_description": "Self Pay",

"plan_code": "PP01",

"plan_description": "Self Pay - Cash",

"card_no ": "",

"date_from": "2022-01-01",

"date_to": "2022-12-31",

"rank": 1

}

"status": "Success"

}

3.5.6. Update Patient

Description: This method will update patient information of an existing patient in TrakCare. Changes are limited to: Gender, DOB, Email, Marital Status, Mobile Number

Authentication Type: JWT Bearer Token Authentication

Method: PUT

Parameters:

- Patient Id (required)
- Email (optional)
- DOB (optional)
- Gender (optional)
- Marital Status (optional)
- Mobile Number (optional)

Response:

- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/patient/>

Headers:

Content-Type: application/json

Authentication type: JWT Bearer Token Authentication

Sample request payload: {

```
"patient_id": "12345",
"email": "test@hotmail.com"
```

}

Sample response payload: {

```
"status": "Success"
```

}

3.6. Appointment

3.6.1. Supported Methods

Direction	Method	Description
Inbound	GetFacilities	This method will return the list of active hospitals in TrakCare.
Inbound	GetSpecialities	This method will return the list of all active specialities for a specific hospital.
Inbound	GetPractitioners	This method will return the list of active care providers with schedules in TrakCare based in one speciality code.
Inbound	GetAvailablePractitioner	This method will return the first available slot of a practitioner in TrakCare.
Inbound	GetPractitionerSchedule	This method will display the days for which a practitioner has slots regardless of whether they are free or booked for a given month.
Inbound	GetPatientService	This method will return the list of active services in TrakCare for a specific patient based on care provider and a speciality, and a date.
Inbound	GetTimeslots	This method will return the list of available slots in TrakCare for a specific care provider.
Inbound	BookAppointment	This method will be used to book an appointment.

Inbound	CancelAppointment	This method will be used to cancel an appointment.
Inbound	GetAppointmentHistory	This method will return the list of appointments for one specific patient. 30 days will be the maximum number of days allowed per request.

3.6.2. Get Facilities

Description: This method will return the list of active hospitals in TrakCare.

Authentication type: JWT Bearer Token Authentication

Method: GET

Parameters:

- None

Response:

- Hospital Code
- Hospital Description
- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/appointment/facility>

Headers:

Content-Type: application/json

Authentication type: JWT Bearer Token Authentication

Sample response payload: {

```

    "hospital_list": [
      {
        "hospital_code": "1",
        "hospital_description": "SGH 1"
      },
      {
        "hospital_code": "2",
        "hospital_description": "SGH 2"
      }
    ],
    "status": "Success"
  }

```

3.6.3. Get Specialities

Description: This method will return the list of all active specialities for a specific hospital.

Authentication Type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Hospital Code (required)

Response:

- Speciality List
 - Speciality Code
 - Speciality Description
- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/appointment/speciality?hospitalcode=1>

Headers:

Content-Type: application/json

Authentication type: JWT Bearer Token Authentication

Sample response payload: {

```
"hospital_code": "1",
"hospital_description": "SGH 1",
"speciality_list": [
  {
    "speciality_code": "CAR",
    "speciality_description": "Cardiology"
  },
  {
    "speciality_code": "FF",
    "speciality_description": "Family Medicine"
  },
  {
    "speciality_code": "ONC",
    "speciality_description": "Oncology"
  }
],
"status": "Success"
}
```

3.6.4. Get Care Providers

Description: This method will return the list of active care providers with schedules in TrakCare.

Authentication Type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Speciality Code (required)

Response:

- Speciality Code
- Speciality Description
- Provider List
 - Care provider code
 - Care provider description
- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/appointment/doctor?specialitycode=FF>

Headers:

Content-Type: application/json

Authentication type: JWT Bearer Token Authentication

Sample response payload: {

```
"speciality_code": "FF",
"speciality_description": "Family Medicine",
"provider_list": [
  {
    "provider_code": "doctor1",
    "provider_description": "Doctor 1",
  },
  {
    "provider_code": "doctor2",
    "provider_description": "Doctor 2",
  },
  {
    "provider_code": "doctor3",
    "provider_description": "Doctor 3",
  },
],
"Status": "Success"
}
```

3.6.5. Get Available Practitioner

Description: This method will return the earliest slot available for a practitioner

Authentication Type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Speciality Code (required)
- Care Provider Code (required)
- Date Time From (required)
- Date Time To (required)

Response:

- Care Provider Code
- Care Provider Description
- Speciality Code
- Speciality Description
- Date Time From
- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/appointment/availability?specialitycode=1&careprovidercode=123&datefrom=2025-01-01>

Headers:

Content-Type: application/json

Authentication type: JWT Bearer Token Authentication

Sample response payload: {

```
"provider_code": "123",  
"provider_description": "DR Test",  
"speciality_code": "1",  
"speciality_description": "Loc",  
"date_time_from": "2025-09-24T15:20:00+04:00",  
"status": "success"  
}
```

3.6.6. Get Practitioner Schedule

Description: This method will return the days for which a practitioner has slots defined within a month.

Authentication Type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Speciality Code (required)
- Care Provider Code (required)
- Date From (required)
- Date To (required)

Response:

- Care Provider Code
- Care Provider Description
- Speciality Code
- Speciality Description
- Schedule List
 - Effective Date From
 - Effective Date To
 - DOW
- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/appointment/schedule?specialitycode=1&careprovidercode=123&datefrom=2025-01-01&datefrom=2025-01-31>

Headers:

Content-Type: application/json

Authentication type: JWT Bearer Token Authentication

Sample response payload: {

```
"provider_code": "123",
"provider_description": "DR Test",
"speciality_code": "1",
"speciality_description": "Loc",
"schedule_list": [
  {
    "effective_date_from": "2025-01-01",
    "effective_date_to": "2025-01-07",
    "dow": "Monday","Tuesday"
  },
  {
    "effective_date_from": "2025-01-08",
    "effective_date_to": "2025-01-31",
```

```
        "dow": "Thursday", "Friday"
    }
],
"status": "Success"
}
```

3.6.7. Get Patient Service

Description: This method will return the service that should be applicable for a patient to book based on a specific date selected.

The API determines the applicable service based on a 14-day rule. Two service types are defined:

Consultation and Follow-up

If the patient has had a consultation within the past 14 days, the API will return Follow-up.

Otherwise, it will return Consultation.

Authentication type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Patient Id (required)
- Care provider code (required)
- Speciality code (required)
- Appt Date (required)

Response:

- Service code
- Service description
- Type
- Status

Sample Request:

<https://api.3rdpartyurl.com/mobileapp/appointment/patientservice?patientId=123&providercode=doctor1&specialitycode=FF&apptdate=2025-01-01>

Sample Response: {

```
"provider_code": "doctor1",
"speciality_code": "FF"
"service_list": [
  {
    "service_code": "Sch001",
    "service_description": "Consultation New Patient",
    "type": "Offline"
  }
],
```

```
"status": "Success"
}
```

3.6.8. Get Timeslots

Description: This method will return the list of available slots in TrakCare for a specific care provider.

Authentication type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Care provider code (required)
- Speciality code (required)
- Service code (required)
- Date From (required)
- Date To (optional - if not sent a default value will be considered)
- Time From (optional)
- Time To (optional)
- Day of the week (optional)

Response:

- Date From
- Date To
- Slot List
 - Slot date
 - Slot start time
 - Slot end time
 - Slot booking id (will be used to book and cancel appointment)
- Status

Sample Request:

<https://api.3rdpartyurl.com/mobileapp/appointment/timeslot?providercode=doctor1&specialitycode=FF&servicecode=Sch001&datefrom=2021-03-03&dateto=2021-03-05&timefrom=08:00&timeto=17:00&dow=4>

Sample response payload: {

```
"date_from": "2021-03-03",
"date_to": "2021-03-05",
"slot_list": [
  {
    "slot_date": "2021-11-15",
    "slot_from_time": "10:00",
    "slot_to_time": "10:30",
    "slot_booking_id": "7497||6938-65343-1000-12860-1"
  },

```



```
{
  {
    "slot_date": "2021-11-15",
    "slot_from_time": "11:00",
    "slot_to_time": "11:30",
    "slot_booking_id": "7497||6938-65343-1100-12860-1"
  },
  {
    "slot_date": "2021-11-15",
    "slot_from_time": "13:00",
    "slot_to_time": "13:30",
    "slot_booking_id": "7497||6938-65343-1300-12860-1"
  }
],
"status": "Success"
}
```

3.6.9. Book Appointment

Description: This method will be used to book an appointment.

Authentication type: JWT Bearer Token Authentication

Method: POST

Parameters:

- Slot booking id (required)
- Patient Id (required)

Response:

- Slot booking id
- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/appointment/book>

Sample request payload: {

```
  "slot_booking_id": "7358||20150-65337-0900-12797-1",
  "patient_id": 12345
}
```

Sample response payload: {

```
  "status": "Success"
}
```

3.6.10. Cancel Appointment

Description: This method will be used to cancel an appointment in TrakCare. In case of transferring an appointment, this API will be called with a reason for cancellation as "RESCHEDULED"

Authentication type: JWT Bearer Token Authentication

Method: POST

Parameters:

- Slot booking id (required)
- Reason for cancellation (required) – Supported codes will be provided by ISC team.

Response:

- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/appointment/cancel/>

Sample request payload: {

```
"slot_booking_id": "7358|20150-65337-0900-12797-1",  
"reason_for_cancellation": "RESCHEDULED"
```

}

Sample response payload: {

```
"status": "Success"
```

}

3.6.11. Get Appointment History

Description: This method will return the list of appointments for one specific patient. 30 days will be the maximum number of days allowed per request.

Authentication type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Patient Id (required)
- Hospital Code (required)
- Date From (required)
- Date To (required)

Response:

- Appointment List
 - Episode Number

- Episode Id
- Appointment Date
- Appointment Time
- Appointment Status
- Speciality Code
- Speciality Description
- Care Provider Code
- Care Provider Description
- Service description
- Slot Booking Id
- Approval Status
- Is Paid?
- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/appointment/history?patientid=12345&hospitalcode=SGH01&datefrom=2021-01-01&dateto=2021-02-28>

Sample response payload: {

```
"appointment_list": [
  {
    "episode_number ": "OP1234000",
    "episode_id": "123",
    "appointment_date ": "2021-11-15",
    "appointment_time": "10:00",
    "appointment_status": "Booked",
    "speciality_code": "FF",
    "speciality_description": "Family Medicine",
    "care_provider_code": "Doc1",
    "care_provider_description": "SGH Doctor 1",
    "service_description": "New Visit",
    "slot_booking_id": "7497||6938-65343-1000-12860-1",
    "approval_status": "Approved",
    "is_paid": true
  },
  {
    "episode_number ": "OP1235000",
    "episode_id": "124",
    "appointment_date ": "2021-11-30",
    "appointment_time": "10:00",
    "appointment_status": "Cancelled",
    "speciality_code": "FF",
    "speciality_description": "Family Medicine",
    "care_provider_code": "Doc1",
    "care_provider_description": "SGH Doctor 1",
    "service_description": "Follow up",
```

```

        "slot_booking_id": "7497||6938-65342-1000-12860-1",
        "approval_status": "Pending",
        "is_paid": false
    }
],
"status": "Success"
}

```

3.7. Billing

3.7.1. Supported Methods

Direction	Method	Description
Inbound	GetServicePrice	This method will return the amount to be paid for one specific service/appointment or an order.
Inbound	PayService	This method will be used to pay for an appointment or an order of an outpatient episode.
Inbound	GetOutstandingAmount	This method will return the outstanding amount to be paid for an inpatient episode.
Inbound	SettleBill	This method will be used to settle the bill of an inpatient episode.
Inbound	GetTaxInvoice	This endpoint will return a list of Tax Invoice for a certain patient id and date range.

3.7.2. Get Service Price

Description: This method will return the amount to be paid for one specific service/appointment or an order.

Authentication type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Slot booking Id (required if order Id is empty)
- Order Id (required if order slot booking Id is empty)
- Patient Insurance Id (required)

Response:

- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/billing/price?slotBookingId=7358-20150-65337-0900-12798-1&patientInsuranceId=515151-1>

Sample response payload: {

```
"slot_booking_id": "7358|20150-65337-0900-12798-1",  
"order_price": "100.00",  
"payor_share": "70.00",  
"patient_share": "30.00",  
"status": "Success"  
}
```

3.7.3. Payment

Description: This API method is used to process payments for services linked to an outpatient episode. The payment type can be either:

Order payment (partial billing): The patient pays for a specific order, and the bill remains open for additional charges. In this case the order Id will be sent as a parameter.

Appointment payment (full settlement): The patient pays for an appointment, and the bill is fully settled upon payment. In this case the slot Id of the appointment will be sent as a parameter.

Authentication type: JWT Bearer Token Authentication

Method: POST

Parameters:

- Transaction Id (required)
- Amount Paid (required)
- Payment Date (required)
- Order Id (required)

Response:

- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/billing/payment>

Sample request payload: {

```
"transaction_id": "7358-1",  
"amount_paid": "30.0",  
"payment_date": "2022-01-01",  
"slot_booking_id": "7358|20150-65337-0900-12798-1"  
}
```

Sample response payload: {

```
"status": "Success"  
}
```

3.7.4. Get Outstanding Amount

Description: This method will return the outstanding amount to be paid for an inpatient episode.

Authentication type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Episode Number (required if patient id is empty)
- Patient Id (required if episode number is empty)

Response:

- Episode Number
- Outstanding Amount
- Invoice Number
- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/billing/outstanding?episodenum=123>

Sample response payload: {

```
"episode_no": "123",  
"outstanding_amount": "100.00",  
"invoice_number": "INV00000001",  
"status ": "Success"
```

}

3.7.5. Settle Bill

Description: This method will be used to settle a bill against an episode. API will default a specific "Payment Method" in TrakCare for all the requests.

This method will be called to settle an inpatient bill or an outpatient bill (patient paying for a consultation).

Authentication type: JWT Bearer Token Authentication

Method: POST

Parameters:

- Transaction Id (required)
- Amount Paid (required)
- Payment Date (required)
- Episode Number (required if slot booking id is empty)
- Slot Booking Id (required if episode number is empty)

Response:

- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/billing/settlebill/>

Sample request payload: {

```
"transaction_id": "7358-1",  
"amount_paid": "30.0",  
"payment_date": "2022-01-01",  
"episode_number": "123"  
}
```

Sample response payload: {

```
"status": "Success"  
}
```

3.7.6. Get Tax Invoice

Description: This endpoint will return a list of Tax Invoices for a certain patient id and date range.

Only Tax invoices (not cancelled) will be returned in the response of this endpoint.

Only Patient (paid) TAX invoices will be returned in the response of this endpoint.

Authentication Type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Patient Id (required)
- Date From (required)
- Date To (required)
- Episode Number (optional)
- Hospital Code (optional)
- Episode Type (required)

Response:

- Invoice List
 - Episode Number
 - Invoice Id
 - Invoice Number
 - Invoice Amount
 - Invoice Date

Sample request:

[https://api.3rdpartyurl.com/mobileapp/billing/taxinvoice?patientid=1234&datefrom=2024-01-01&dateto=2024-01-30&episodetype="O"](https://api.3rdpartyurl.com/mobileapp/billing/taxinvoice?patientid=1234&datefrom=2024-01-01&dateto=2024-01-30&episodetype=)

Sample response payload: {

```
"invoice_list": [
  {
    "episode_number": "OP00000001",
    "invoice_id": "141414||1",
    "invoice_number": "INV00000001",
    "invoice_amount": "400.00",
    "invoice_date": "2024-01-01"
  },
  {
    "episode_number": "OP00000555",
    "invoice_id": "1515141||1",
    "invoice_number": "INV00000022",
    "invoice_amount": "3990.00",
    "invoice_date": "2024-01-15"
  }
],
"status": "Success"
}
```

3.8. Health

3.8.1. Supported Methods

Direction	Method	Description
Inbound	GetPatientEpisodes	This method will return the list of episodes for one specific patient.
Inbound	GetMedicationOrder	This method will return the list of active medications prescribed for one specific patient or episode.
Inbound	GetPatientAllergies	This method will return the list of active allergy for a specific patient.
Inbound	GetLaboratoryOrder	This method will return the list of laboratory orders for one specific patient or episode.
Inbound	GetRadiologyOrder	This method will return the list of radiology orders for one specific patient or episode.
Inbound	GetDischargeSummary	This method will return the list of authorized discharge summary reports for specific patient or episode.
Inbound	GetSickLeave	This method will return the list of authorized sick leave reports for one specific patient or episode.

Inbound	GetPrescriptions	This endpoint will return a list of prescriptions for a certain patient id and date range.
---------	------------------	--

3.8.2. Get Patient Episodes

Description: This method will return the list of episodes for one specific patient.

Authentication Type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Patient Id (required)
- Episode Status (optional)
- Episode Type (optional)
- Hospital Code (optional)
- Date From
- Date To

Response:

- Episode List
 - Episode Number
 - Episode Id
 - Episode Status
 - Episode Date
 - Episode Time
 - Episode Type
 - Hospital
 - Department
 - Care Provider Code
 - Care Provider Description
 - Discharge Date
 - Discharge Time
- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/health/episode?patientid=12345&datefrom=2025-01-01&dateto=2025-01-10>

Headers:

Content-Type: application/json

Authentication type: JWT Bearer Token Authentication

Sample response payload: {

```

"episode_list": [
  {
    "episode_number": "OP0001",
    "episode_id": 1,
    "episode_status": "Current",
    "episode_date": "2021-01-01",
    "episode_time": "08:00",
    "episode_type": "Outpatient",
    "hospital": "SGH",
    "department": "Family Medicine",
    "care_provider_code": "Doc01",
    "care_provider_description": "SGH Doctor 01",
    "discharge_date": "",
    "discharge_time": ""
  },
  {
    "episode_number": "IP0001",
    "episode_id": 2,
    "episode_status": "Discharged",
    "episode_date": "2021-01-02",
    "episode_time": "08:00",
    "episode_type": "Inpatient",
    "hospital": "SGH",
    "department": "ICU",
    "care_provider_code": "Doc01",
    "care_provider_description": "SGH Doctor 01",
    "discharge_date": "2021-01-05",
    "discharge_time": "22:00"
  },
  {
    "episode_number": "EM0001",
    "episode_id": 3,
    "episode_status": "Discharged",
    "episode_date": "2021-02-03",
    "episode_time": "08:00",
    "episode_type": "Emergency",
    "hospital": "SGH",
    "department": "Emergency Department",
    "care_provider_code": "Doc01",
    "care_provider_description": "SGH Doctor 01",
    "discharge_date": "2021-02-03",
    "discharge_time": "10:00"
  }
}

```

```
],
  "status": "Success"
}
```

3.8.3. Get Medication Order

Description: This method will return the list of active medications prescribed for one specific patient or episode. The method will return a maximum of 10 medications per page. If required, a new API request will need to be sent requesting data for the following pages.

Authentication Type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Patient Id (required)
- Page (required)
- Episode Number (optional)
- Hospital Code (optional)
- Start Date (optional)
- Start Time (optional)
- Episode Type (required)

Response:

- Medication List
 - Episode Number
 - Episode Id
 - Medication Description
 - Start Date
 - Start Time
 - Prescription Number
 - Ordering Provider
 - Quantity
 - UOM
 - Priority
 - Route
 - Duration
 - Status
 - Order Priority
 - Dispensing Date
 - Dispensing Time
 - English instructions
 - Arabic instructions
 - Approval Status
- Item Count
- Page

- Total
- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/health/medication?patientid=12345&page=1&episodetype=O>

Headers:

Content-Type: application/json

Authentication type: JWT Bearer Token Authentication

Sample response payload: {

```
"medication_list": [
  {
    "episode_number": "OP00001",
    "episode_Id": "1",
    "medication_description": "Amoxicillin",
    "start_date": "2021-01-01",
    "start_time": "08:00",
    "prescription_number": "00000001",
    "ordering_provider": "Doctor SGH",
    "quantity": 2,
    "uom": "Capsule",
    "priority": "Urgent",
    "route": "Oral",
    "duration": "5 days",
    "status": "Verified",
    "order_priority": "Discharge Medication",
    "dispensing_date": "",
    "dispensing_time": "",
    "english_instructions": "",
    "arabic_instructions": "",
    "approval_status": "Approved"
  },
  {
    "episode_number": "OP00001",
    "episode_Id": "1",
    "medication_description": "Propranolol 1 mg/mL Oral Suspension",
    "start_date": "2021-01-02",
    "start_time": "10:00",
    "prescription_number": "00000002",
    "ordering_provider": "Doctor SGH",
    "quantity": 1,
    "uom": "Bottle",
    "priority": "Normal",
```

```
"route": "Oral",
"duration": "3 days",
"status": "Executed",
"order_priority": "Normal",
"dispensing_date": "2021-01-02",
"dispensing_time": "10:00",
"english_instructions": "",
"arabic_instructions": "",
"approval_status": "N/A"
},
{
  "episode_number": "OP00001",
  "episode_Id": "1",
  "medication_description": "Panadol 1mg/mL Oral",
  "start_date": "2021-02-02",
  "start_time": "11:00",
  "prescription_number": "00000003",
  "ordering_provider": "Doctor SGH",
  "quantity": 5,
  "uom": "Capsule",
  "priority": "Urgent",
  "route": "Oral",
  "duration": "5 days",
  "status": "Verified",
  "order_priority": "Discharge Medication",
  "dispensing_date": "",
  "dispensing_time": "",
  "english_instructions": "",
  "arabic_instructions": "",
  "approval_status": "Rejected"
}
],
"item_count": 3,
"page": 1,
"total ": 1,
"status": "Success"
}
```

3.8.4. Get Patient Allergies

Description: This method will return the list of active allergies for a specific patient

Authentication Type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Patient Id (required)

Response:

- Allergy List
 - Allergy Code
 - Allergy Description
 - On Set Date
 - Severity
 - Nature of Reaction
- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/health/allergy?patientid=12345>

Headers:

Content-Type: application/json

Authentication type: JWT Bearer Token Authentication

Sample response payload: {

```

    "allergy_list": [
      {
        "allergy_code": "PEN",
        "allergy_description": "Peanuts",
        "onset_date": "2021-01-01",
        "severity": "Moderate",
        "nature_of_reaction ": "Breathing Difficulties"
      },
      {
        "allergy_code": "MIL",
        "allergy_description": "Milk",
        "onset_date": "2021-01-05",
        "severity": "Rash - generalised",
        "nature_of_reaction ": "Severe"
      },
      {
        "allergy_code": "MED",
        "allergy_description": "Amoxicillin",
        "onset_date": "2021-01-05",
        "severity": "Life threatening response",
        "nature_of_reaction ": "Fatal"
      },
    ],
    "status": "Success"
  }

```

3.8.5. Get Laboratory Order

Description: This method will return the list of laboratory orders recorded for one specific patient or episode. The method will return a maximum of 10 results per page. If required, a new API request will need to be sent requesting data for the following pages.

Authentication Type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Patient Id (required)
- Page (required)
- Episode Number (optional)
- Hospital Code (optional)
- Order Date (optional)
- Order Time (optional)
- Lab Episode Number (optional)
- Episode Type (required)

Response:

- Order List
 - Episode Number
 - Episode Id
 - Order Id
 - Order Description
 - Ordered Doctor
 - Collection Date
 - Collection Time
 - Lab Episode Number
 - Specimen Number
 - Authorizing user
 - Result Date
 - Result Time
 - Approval Status
 - Price
- Item Count
- Page
- Total
- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/health/laboratory?patientid=12345&page=1&episodetype=O>

Headers:

Content-Type: application/json

Authentication type: JWT Bearer Token Authentication

Sample response payload: {

```

"order_list": [
  {
    "episode_number": "OP00001",
    "episode_Id": "1",
    "order_id": "88811|1",
    "order_description": "Alanine Aminotransferase",
    "ordered_doctor ": "Doctor SGH 1",
    "collection_date": "2021-01-01",
    "collection_time": "14:00",
    "labepisode_number": 201031031,
    "specimen_number": "201031031-1",
    "authorizing_user": "Dr Lab user SGH 1",
    "authorizing_user": "Dr Lab user SGH 1",
    "result_date": "2021-01-02",
    "result_time": "00:00",
    "approval_status": "Approved"
  },
  {
    "episode_number": "OP00001",
    "episode_Id": "1",
    "order_id": "88811|2",
    "order_description": "FBC - Full Blood Count",
    "ordered_doctor ": "Doctor SGH 1",
    "collection_date": "2021-01-01",
    "collection_time": "14:00",
    "labepisode_number": 201031031,
    "specimen_number": "201031031-1",
    "authorizing_user": "Dr Lab user SGH 1",
    "result_date": "2021-01-02",
    "result_time": "00:00",
    "approval_status": "N/A",
    "price": "30"
  },
  {
    "episode_number": "OP00002",
    "episode_Id": "2",
    "order_id": "88811|3",
    "order_description": "Glycosylated Hemoglobin",
    "ordered_doctor ": "Doctor SGH 1",
    "collection_date": "2021-01-05",
    "collection_time": "13:00",
    "labepisode_number": 20100101,
    "specimen_number": "20100101-1",
    "authorizing_user": "Dr Lab user SGH 1",
    "result_date": "2021-01-07",

```



```

        "result_time": "14:00",
        "approval_status": "Rejected",
        "price": "30",
    }
],
"item_count": 3,
"page": 1,
"total": 1,
"status": "Success"
}

```

3.8.6. Get Radiology Order

Description: This method will return the list of radiology orders recorded for one specific patient or episode.

Note: This endpoint might be subject to change depending on the PACS integration

Authentication Type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Patient Id (required)
- Hospital Code (optional)
- Episode Number (optional)
- Order Date (optional)
- Order Time (optional)
- Episode Type (required)

Response:

- Order List
 - Episode Number
 - Episode Id
 - Order Id
 - Order Description
 - Ordered Doctor
 - Authorizing user
 - Result Date
 - Result Time
 - Approval Status
 - Price
- Status

Sample request:

[https://api.3rdpartyurl.com/mobileapp/health/radiology?patientid=12345&episodetype="O"](https://api.3rdpartyurl.com/mobileapp/health/radiology?patientid=12345&episodetype=)

Headers:

Content-Type: application/json

Authentication type: JWT Bearer Token Authentication

Sample response payload: {

```

    "order_list": [
      {
        "episode_number": "OP00001",
        "episode_Id": "1",
        "order_id": "712320||1",
        "order_description": "X-Ray Chest",
        "ordered_doctor ": "Doctor SGH 1",
        "authorizing_user": "Dr RAD SGH 1",
        "result_date": "2022-01-01",
        "result_time": "00:00",
        "approval_status": "Approved"
      },
      {
        "episode_number": "OP00001",
        "episode_Id": "1",
        "order_id": "712321||1",
        "order_description": "X-Ray Head",
        "ordered_doctor ": "Doctor SGH 1",
        "authorizing_user": "Dr RAD SGH 1",
        "result_date": "2022-01-01",
        "result_time": "14:00",
        "approval_status": "Approved"
      },
      {
        "episode_number": "OP00001",
        "episode_Id": "1",
        "order_id": "712322||1",
        "order_description": "MRI Head",
        "ordered_doctor ": "Doctor SGH 1",
        "authorizing_user": "Dr RAD SGH 1",
        "result_date": "2021-01-07",
        "result_time": "14:00",
        "approval_status": "Patially Approved",
        "price": "40"
      }
    ],
    "status": "Success"
  }

```

3.8.7. Get Discharge Summary

Description: This method will return the list of authorized discharge summary reports for one specific patient or episode.

Authentication Type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Patient Id (required)
- Episode Number (optional)
- Hospital Code (optional)
- Authorized Date (optional)
- Authorized Time (optional)
- Episode Type (required)

Response:

- Document List
 - Episode Number
 - Episode Id
 - Document Id
 - Authorizing user
 - Authorized Date
 - Authorized Time
- Status

Sample request:

<https://api.3rdpartyurl.com/reports/mobileapp/health/dischargesummary?patientid=12345&episodetype=O>

Headers:

Content-Type: application/json

Authentication type: JWT Bearer Token Authentication

Sample response payload: {

```
"document_list": [  
  {  
    "episode_number": "OP00001",  
    "episode_Id": "1",  
    "document_id": 7714555,  
    "authorizing_user": "Dr SGH 1",  
    "authorized_date": "2021-01-02",  
    "authorized_time": "00:00"  
  },  
  {  
    "episode_number": "OP00001",  
    "episode_Id": "1",
```

```

    "document_id": 7713335,
    "authorizing_user": "Dr SGH 1",
    "authorized_date": "2021-01-02",
    "authorized_time": "00:00"
  },
  {
    "episode_number": "OP00001",
    "episode_Id": "1",
    "document_id": 7711116,
    "authorizing_user": "Dr SGH 1",
    "authorized_date": "2021-01-02",
    "authorized_time": "00:00"
  }
],
"status": "Success"
}

```

3.8.8. Get Sick Leave

Description: This method will return the list of authorized sick leave reports for one specific patient or episode.

Authentication Type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Patient Id (required)
- Episode Number (optional)
- Hospital Code (optional)
- Authorized Date (optional)
- Authorized Time (optional)
- Episode Type (required)

Response:

- Document List
 - Episode Number
 - Episode Id
 - Document Id
 - Authorizing user
 - Authorized Date
 - Authorized Time
- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/health/sickleave?patientid=12345&episodetype=O>

Headers:

Content-Type: application/json

Authentication type: JWT Bearer Token Authentication

Sample response payload: {

```
"document_list": [  
  {  
    "episode_number": "OP00001",  
    "episode_id": "1",  
    "document_id": 7714414,  
    "authorizing_user": "Dr SGH 1",  
    "authorized_date": "2021-01-02",  
    "authorized_time": "00:00"  
  },  
  {  
    "episode_number": "OP00001",  
    "episode_id": "1",  
    "document_id": 7714415,  
    "authorizing_user": "Dr SGH 1",  
    "authorized_date": "2021-01-02",  
    "authorized_time": "00:00"  
  },  
  {  
    "episode_number": "OP00001",  
    "episode_id": "1",  
    "document_id": 7714416,  
    "authorizing_user": "Dr SGH 1",  
    "authorized_date": "2021-01-02",  
    "authorized_time": "00:00"  
  }  
],  
"status": "Success"  
}
```

3.8.9. Get Prescription

Description: This endpoint will return a list of Episode-Wise Prescriptions for a certain patient id and date range. Cancelled Prescriptions will not be returned in the response of this end point.

Authentication Type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Patient Id (required)
- Date From (required)

- Date To (required)
- Episode Number (optional)
- Hospital Code (optional)
- Episode Type (required)

Response:

- Prescription List
 - Episode Number
 - Prescription Status
 - Prescription Number
 - Prescription Orders

Sample request:

<https://api.3rdpartyurl.com/mobileapp/health/prescription?patientid=1234&datefrom=2024-01-01&dateto=2024-01-30>

Sample response payload: {

```
"document_list": [
  {
    "episode_number": "OP00000001",
    "prescription_status ": "A"
    "prescription_number": "O0000001",
    "prescription_orders": "Amoxicillin, Paracetamol"
  },
  {
    "episode_number": "OP00000005",
    "prescription_status ": "P"
    "prescription_number": "I0000004",
    "prescription_orders": " Paracetamol"
  }
],
"status": "Success"
}
```

3.9. Reports

3.9.1. Supported Methods

Direction	Method	Description
Inbound	GetLaboratoryOrder	This method will return the list of laboratory orders for one specific patient or episode.

Inbound	GetLaboratoryReport	This method will return a base64 stream containing the PDF report for one specific laboratory result
Inbound	GetRadiologyReport	This method will return a PDF base 64 stream containing the result for one specific order id.
Inbound	GetDischargeSummaryReport	This method will return a PDF base 64 stream containing the discharge summary report for one specific document id.
Inbound	GetSickLeaveReport	This method will return a base64 stream containing the PDF report for one specific sick leave report.
Inbound	GetTaxInvoiceReport	This method will return a base64 stream containing the PDF report for one specific (Tax Invoice) report.
Inbound	GetPrescriptionReport	This method will return a base64 stream containing the PDF report for one specific Prescription report.

3.9.2. Get Laboratory Report

Description: This method will return a PDF base 64 stream containing the result for one specific order id.

Authentication Type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Order Id (required)

Response:

- PDFBase64
- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/report/laboratory?orderid=88811-1>

Headers:

Content-Type: application/json

Authentication type: JWT Bearer Token Authentication

Sample response payload: {

```
"pdf_base64": "BASE64STREAM CONTENT",
"status": "Success"
```

```
}
```

3.9.3. Get Radiology Report

Description: This method will return a PDF base 64 stream containing the result for one specific order id.

Authentication Type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Order Id (required)

Response:

- PDFBase64
- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/report/radiology?orderid=712322-1>

Headers:

Content-Type: application/json

Authentication type: JWT Bearer Token Authentication

Sample response payload: {

```
"pdf_base64": "BASE64STREAM CONTENT",  
"status": "Success"
```

```
}
```

3.9.4. Get Discharge Summary Report

Description: This method will return a PDF base 64 stream containing the discharge summary report for one specific document id.

Authentication Type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Document Id (required)

Response:

- PDFBase64
- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/report/dischargesummary?documentid=7713335>

Headers:

Content-Type: application/json

Authentication type: JWT Bearer Token Authentication

Sample response payload: {

```
"pdf_base64": "BASE64STREAM CONTENT",  
"status": "Success"
```

}

3.9.5. Get Sick Leave Report

Description: This method will return a PDF base 64 stream containing the sick leave report for one specific document id.

Authentication Type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Document Id (required)

Response:

- PDFBase64
- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/report/sickleave?documentid=716514>

Headers:

Content-Type: application/json

Authentication type: JWT Bearer Token Authentication

Sample response payload: {

```
"pdf_base64": "BASE64STREAM CONTENT",  
"status": "Success"
```

}

3.9.6. Get Tax Invoice Report

Description: This method will return a base64 stream containing the PDF report for one specific Payment Receipt (Tax Invoice) report.

Authentication Type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Invoice Id (required)

Response:

- PDFBase64
- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/report/taxinvoice?invoiceid=1515141||1>

Headers:

Content-Type: application/json

Authentication type: JWT Bearer Token Authentication

Sample response payload: {

"pdf_base64": "BASE64STREAM CONTENT",

"status": "Success"

}

3.9.7. Get Prescription Report

Description: This method will return a base64 stream containing the PDF report for one specific Prescription report.

Authentication Type: JWT Bearer Token Authentication

Method: GET

Parameters:

- Prescription number (required)

Response:

- PDFBase64
- Status

Sample request:

<https://api.3rdpartyurl.com/mobileapp/report/prescription?prescriptionnumber=O0000001>

Headers:

Content-Type: application/json

Authentication type: JWT Bearer Token Authentication

Sample response payload: {
 "pdf_base64": "BASE64STREAM CONTENT",
 "status": "Success"
}



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