



API Submission

PRESENTER

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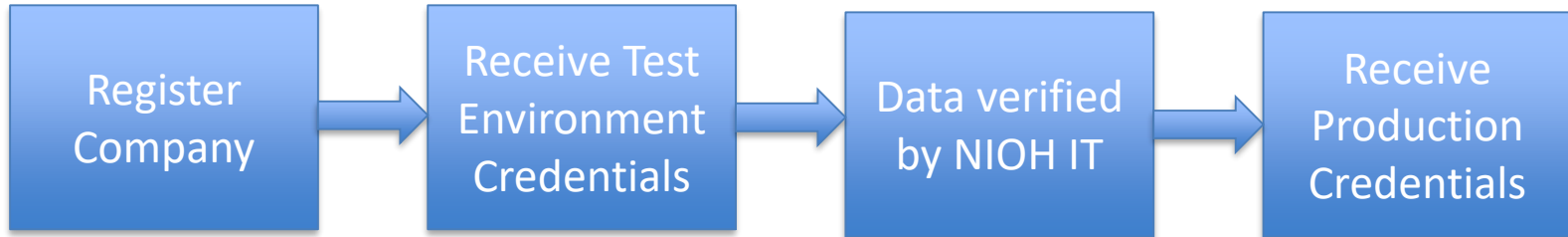


**NATIONAL INSTITUTE FOR
COMMUNICABLE DISEASES**

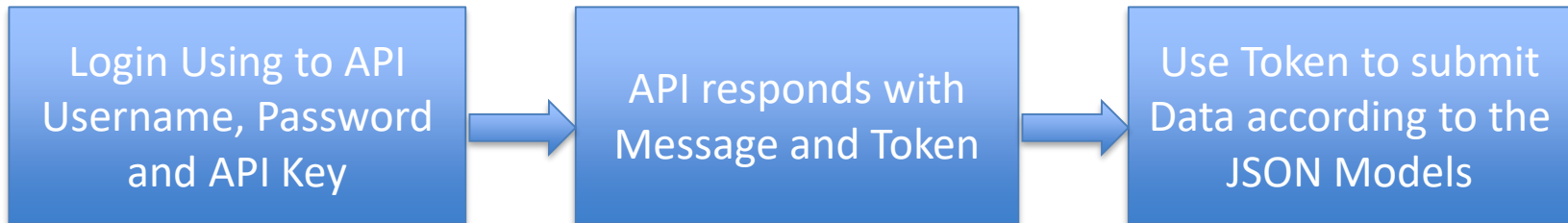
Division of the National Health Laboratory Service



API REGISTRATION PROCESS



API SUBMISSION PROCESS



NIOH COVID19 API Endpoints

URL : <https://apitest.nioh.ac.za>

 **swagger**

<https://apitest.nioh.ac.za/swagger/docs/v1>

api_key

Explore

WOHSSAPI

DataSubmission

Show/Hide | List Operations | Expand Operations

POST	/api/DataSubmission/Login	Login
PUT	/api/DataSubmission/Logout	Logout
PUT	/api/DataSubmission/SubmitScreening	Submit Screening Report
PUT	/api/DataSubmission/SubmitTestData	Submit Test Report
PUT	/api/DataSubmission/SubmitReturnToWork	Submit Return To Work
PUT	/api/DataSubmission/SubmitVulnerability	Submit Vulnerability

[BASE URL: , API VERSION: v1]

VALID



Data Model : Login Endpoint

POST /api/DataSubmission/Login Login

Response Class (Status 200)
OK

Model | Example Value

```
APILoginResponse {  
  token (string, optional),  
  status (string, optional),  
  message (string, optional)  
}
```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
data	<pre>{ "password": "alx&kyi.h0-ez1-", "username": "apini0h.username" }</pre>		body	Model Example Value <pre>{ "password": "string", "username": "string" }</pre>

Parameter content type:

Data Model : Login Endpoint Response

Curl

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' --header 'apiKey: A9085C18-  
"password": "g%27%2615ET%,.Hc%27yJ", \  
"username": "apinloh.Itakane" \  
' 'https://apitest.nioh.ac.za/api/DataSubmission/Login'
```

Request URL

```
https://apitest.nioh.ac.za/api/DataSubmission/Login
```

Response Body

```
{  
  "token": "bc0c74dba5314f0f9e8b137ce1654568",  
  "status": "1",  
  "message": "Success"  
}
```

Response Code

```
200
```

Response Headers

```
{  
  "cache-control": "no-cache",  
  "content-length": "77",  
  "content-type": "application/json; charset=utf-8",  
  "date": "Tue, 09 Feb 2021 12:46:06 GMT",  
  "expires": "-1",  
  "pragma": "no-cache",  
  "server": "",  
  "strict-transport-security": "max-age=15552001; includeSubDomains; preload",  
  "x-aspnet-version": "4.0.30319",  
  "x-content-type-options": "nosniff",  
  "x-ffox-spdy": "h2",  
  "x-frame-options": "SAMEORIGIN",  
  "x-powered-by": "NICD",  
  "x-xss-protection": "1; mode=block"  
}
```

Data Model : Logout Endpoint

PUT /api/DataSubmission/Logout Logout

Response Class (Status 200)
OK

Model | Example Value

```
{
  "status": "string",
  "message": "string"
}
```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
data	<pre>{ "username": "apiinoh.username", "token": "bc0c74dba5314f0f9e8b137ce1654568" }</pre>		body	Model Example Value <pre>{ "username": "string", "token": "string" }</pre>

Parameter content type:

[Try it out!](#) [Hide Response](#)

Data Model : Logout Response

Curl

```
curl -X PUT --header 'Content-Type: application/json' --header 'Accept: application/json' --header 'apiKey: A9085C18-2' \
  "username": "apinioh.Itakane", \
  "token": "bc0c74dba5314f0f9e8b137ce1654568" \
}' 'https://apitest.nioh.ac.za/api/DataSubmission/Logout'
```

Request URL

```
https://apitest.nioh.ac.za/api/DataSubmission/Logout
```

Response Body

```
{
  "status": "1",
  "message": "Success"
}
```

Response Code

```
200
```

Response Headers

```
{
  "cache-control": "no-cache",
  "content-length": "34",
  "content-type": "application/json; charset=utf-8",
  "date": "Tue, 09 Feb 2021 12:51:46 GMT",
  "expires": "-1",
  "pragma": "no-cache",
  "server": "",
  "strict-transport-security": "max-age=15552001; includeSubDomains; preload",
  "x-aspnet-version": "4.0.30319",
  "x-content-type-options": "nosniff",
  "x-firefox-spdy": "h2",
  "x-frame-options": "SAMEORIGIN",
  "x-powered-by": "NICD",
  "x-xss-protection": "1; mode=block"
}
```

Symptoms Screening Model

```
"screeningData": [
  {
    "EmployeeId": "ABC123",
    "Consent": "Yes",
    "ScreeningDate": "2020/08/19",
    "EmployeeAge": "45",
    "EmployeeGender": "Male",
    "JobCategory": "TECHNICIAN",
    "Province": "Eastern Cape",
    "District": "Tshwane",
    "SymptomsStatus": "YES",
    "OutcomeNoAction": "NO",
    "OutcomeSelfIsolation": "NO",
    "OutcomeReferredTesting": "NO",
    "OutcomeReferredDoctor": "NO",
    "Fever": "YE ",
    "Chills": "NO",
    "DryCough": "NO",
    "SoreThroat": "YES",
    "ShortnessOfBreath": "NO",
    "Tiredness": "YES",
    "LackOfSmellOrTaste": "NO",
    "ConjunctivitisRedEyes": "NO",
    "Diarrhoea": "NO",
    "NauseaVomiting": "NO ",
    "RunnyNose": "NO",
    "MusclePains": "NO",
    "Dizziness": "YES",
    "Headache": "YES",
    "Update": 0
  }
],
"businessid": " C8F1720B-FB4F-48C4-BBC5-413EF8E31D3C ",
"username": "apinioh.username",
"token": "fba40be6f49a4ba19f85d0ef2eb3aa50 }
```

Positive Tests Data Model

```
Data{
  "testData": [
    {
      "EmployeeIDBusinessGen": " ABC123 ",
      "EmployeeID": " 7508175800080",
      "Age": "45",
      "Sex": "Male",
      "JobCategory": " TECHNICIAN ",
      "Province": "Gauteng",
      "District": " Tshwane ",
      "TestDate": " 2020/08/19 ",
      "TestTypePCR": " Yes",
      "TestTypeAntigen": " NO ",
      "TestTypeAntibody": " NO ",
      "SymptomsPositive": " Yes ",
      "NumberHighRiskContact": "8",
      "VulnerabilityStatus": "Yes",
      "PositiveTestResultAction": " Self-Isolation at quarantine site ",
      "ExposureInformation": " Public transport ",
      "ReportingActionedDEL": " Yes ",
      "ReportingActionCOIDA": " No ",
      "ReportingActionDMRE": " No ",
      "Date": " 2020/08/19 ",
      "Update": 0
    }
  ],
  "businessid": " C8F1720B-FB4F-48C4-BBC5-413EF8E31D3C ",
  "username": "apinioh.username",
  "token": "fba40be6f49a4ba19f85d0ef2eb3aa50 "
}
```


ReturnToWork Model

```
Data {
  "returnData": [
    {
      "EmployeeID": "abc123",
      "JobCategory": "Service Workers",
      "Province": "Limpopo",
      "District": "Vhembe",
      "Date": "2020/08/21",
      "Hospitalised": "Yes",
      "HospitalType": " Private ",
      "DateAdmission": "2020/07/15",
      "Outcome": " Discharge ",
      "OutcomeDate": "2020/07/28",
      "ReturntoWorkDate": "2020/07/29",
      "ReturnToWorkFitness": "Fit with restrictions",
      "CompensationClaim": "No",
      "PercDisablement": "70",
      "ClaimREfNo": "12AD43",
      "Update": 0
    }
  ],
  "businessid": " C8F1720B-FB4F-48C4-BBC5-413EF8E31D3C ",
  "username": "apinioh.username",
  "token": "fba40be6f49a4ba19f85d0ef2eb3aa50 "
```

NOTE : Keep **update** attribute **0**. To be used on the
Next version update

Vulnerability Model

```
Data {
  "vulnerabilityData": [
    {
      "EmployeeID": "7508175800080",
      "Date": "2020/08/21",
      "Province": " Limpopo ",
      "District": " Vhembe ",
      "Age": "62",
      "Sex": "Female",
      "JobCategory": " Skilled Agricultural Forestry Fishery ",
      "VulnerabilityStatus": " Yes ",
      "Asthma": " Yes ",
      "ChronicLungDisease": "No",
      "Diabetes": " No ",
      "Hypertension": " No ",
      "SeriousHeartConditions": " No ",
      "ChronicKidneyDisease": " No ",
      "ChronicLiverDisease": " No ",
      "Immunocompromised": " No ",
      "PreviousTuberculosis": " No ",
      "CurrentTuberculosis": " No ",
      "HIV": " No ",
      "AgeGrtEqIs60": "Yes",
      "Smoker": " No ",
      "PregnancyWeeksGrtEqIs28": " No ",
      "Obesity": " No ",
      "ReceivedFluVaccine": "Yes",
      "Update": 0
    }
  ],
  "businessid": " C8F1720B-FB4F-48C4-BBC5-413EF8E31D3C ",
  "username": "apinioh.username",
  "token": "fba40be6f49a4ba19f85d0ef2eb3aa50 "
```

Endpoint Submissions

PUT /api/DataSubmission/SubmitScreening Submit Screening Report

Response Class (Status 200)
OK

Model | Example Value

```
{
  "status": "string",
  "message": "string"
}
```

Response Content Type:

Parameters

Parameter	Value	Description	Parameter Type	Data Type
data	<pre>{ "LackOfSmellOrTaste": "string", "ConjunctivitisRedEyes": "string", "Diarrhoea": "string", "NauseaVomiting": "string", "RunnyNose": "string", "MusclePains": "string", "Dizziness": "string", "Headache": "string", "Update": 0 }, "businessid": "C8F1720B-FB4F-48C4-BBC5-413EF8E31D3C", "username": "apinoh.username", "token": "fba40be6f49a4ba19f85d0ef2eb3aa50" }</pre>		body	Model Example Value

```
{
  "screeningData": [
    {
      "EmployeeId": "string",
      "Consent": "string",
      "ScreeningDate": "string",
      "EmployeeAge": "string",
      "EmployeeGender": "string",
      "JobCategory": "string",
      "Province": "string",
    }
  ]
}
```

Parameter content type:

[Try it out!](#) [Hide Response](#)

Endpoint Response Model

- Production API Endpoints can receive up to **1000** records
- Per push
- Session automatically logged out after 15 minutes of no activity
- API Data Endpoint use **PUT** method

Curl

```
"EmployeeAge": "string", \  
"EmployeeGender": "string", \  
"JobCategory": "string", \  
"Province": "string", \  
"District": "string", \  
"SymptomsStatus": "string", \  
"OutcomeAction": "string", \  
"OutcomeSelfisolation": "string", \  
"OutcomeReferredTesting": "string", \  
"OutcomeReferredDoctor": "string", \  
"Fever": "string", \  
"Chills": "string", \  
"DryCough": "string", \  
"Sorethroat": "string", \  
"ShortnessOfBreath": "string", \  
"Tiredness": "string", \  
"LackOfSmellOrTaste": "string", \  
"ConjunctivitisRedEyes": "string", \  
"Diarrhoea": "string", \  
"NauseaVomiting": "string", \  
"RunnyNose": "string", \  
"MusclePains": "string", \  
"Dizziness": "string", \  
"Headache": "string", \  
"Update": 0 \  
} \  
} \  
"businessid": "CBF1720B-FB4F-48C4-8BC5-413EF8E31D3C", \  
"username": "apinich.Itakane", \  
"token": "fb40be6f49a4ba19f85d0ef2eb3aa50" \  
}' : https://apitest.nioh.ac.za/api/DataSubmission/SubmitScreening"
```

Request URL

https://apitest.nioh.ac.za/api/DataSubmission/SubmitScreening

Response Body

```
{  
  "status": "1",  
  "message": "Success"  
}
```

Response Code

200

Response Headers

```
{  
  "cache-control": "no-cache",  
  "content-length": "34",  
  "content-type": "application/json; charset=utf-8",  
  "date": "Tue, 09 Feb 2021 12:59:59 GMT",  
  "expires": "-1",  
  "pragma": "no-cache",  
  "server": "",  
  "strict-transport-security": "max-age=15552001; includeSubDomains; preload",  
  "x-aspnet-version": "4.0.30319",  
  "x-content-type-options": "nosniff",  
  "x-firefox-spdy": "h2",  
  "x-frame-options": "SAMEORIGIN",  
  "x-powered-by": "NICD",  
  "x-xss-protection": "1; mode=block"  
}
```



Q&A

Thank you

