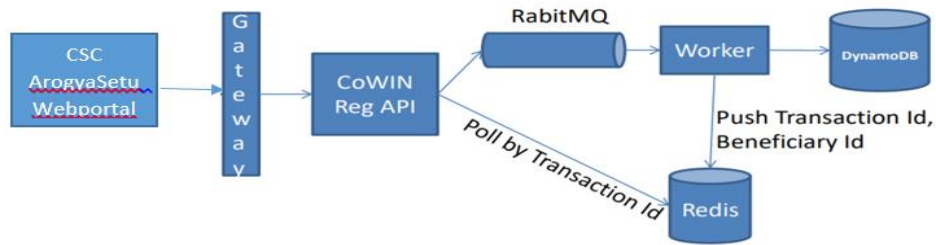
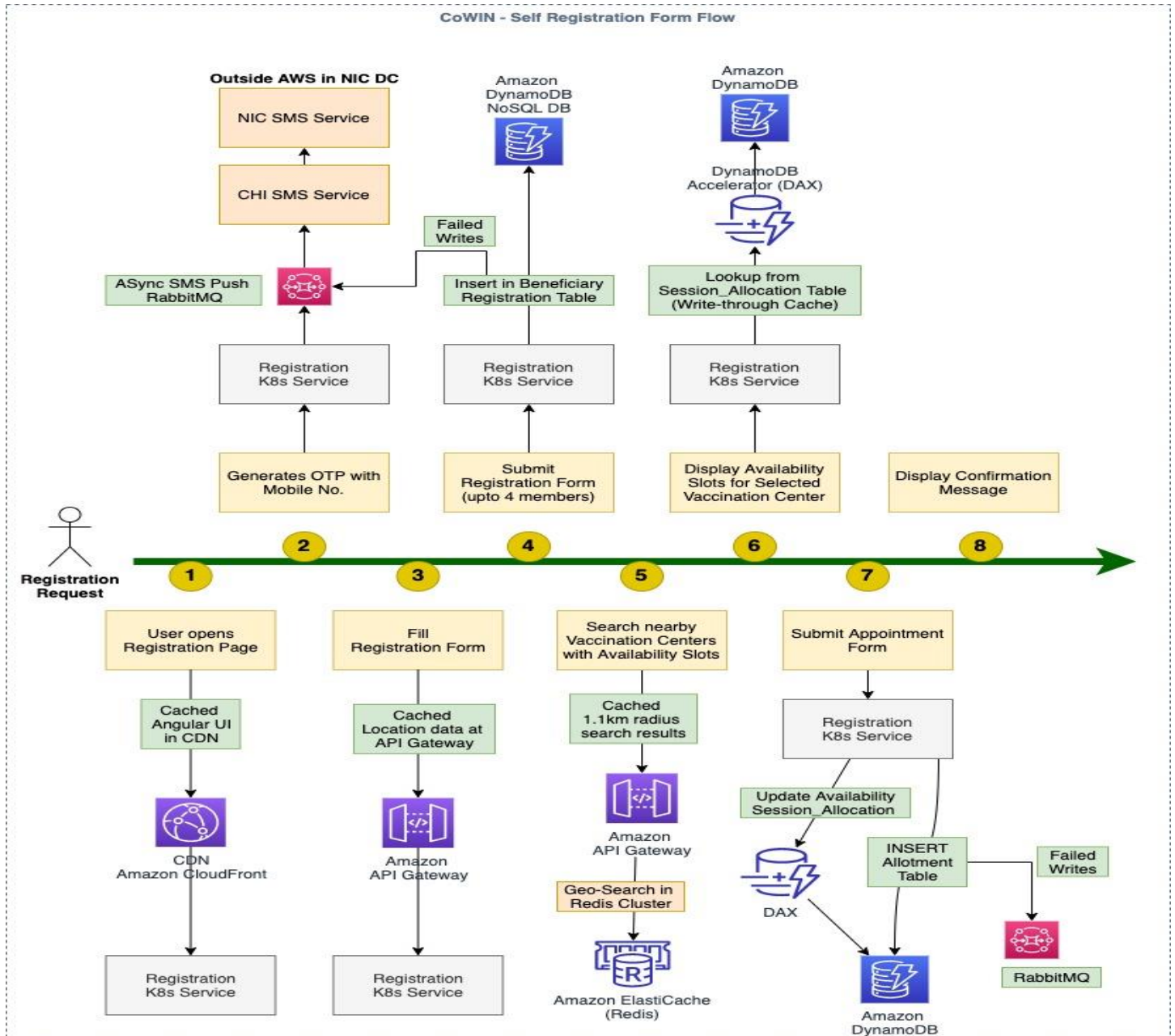


## Internal work flow



## System Architecture



## Registration and Appointment API

Individuals will be registered into the application with the following information and get appointment at any near by vaccination center.

- Individual data
  - Name [String]
  - Gender [String]
  - Year Of Birth [String]
  - Moibile [String]
- Facility Location Data
  - State [String]
  - District[String]
  - Block[String]
  - Pincode[String]
  - Facilityname [String]
  - InchargeName[string]
  - Mobile[string]
  - Lat[string]
  - Lang[String]
  - vaccinationtypeID[String]
  - Startdate[String]
  - Enddate[String]
  - onlineAppointmentVaccancy[int]
  - slots[string]
  - Vaccancy[int]

## Header Details

This API will be authenticated with the Authorization token in the header.

**Example : Authorization** – key should be present in the request

## RESTful URL

**All API details published on API Setu and updated version available at url [ <https://apisetu.gov.in/public/api/cowin> ]**

### A) Token API

1. Login – login as guest user to get the token ( **This guest token will be valid only for 15 min**)

<b>API</b>	Login as Guest
<b>Request URL</b>	https://sit.co-vin.in/api/v1/auth/guest/login
<b>Request Method</b>	POST
<b>Sample Request Payload</b>	{"user_name":"99999999999999999999"}

<b>Sample Response</b>	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VyX2lkljoyMDAsInVzZXJfbmFtZSI6IjEyMzEyMzEyMzQiLCJkaXNwbGF5X25hbWUiOiJtb25pY2FhIiwicm9sZSI6MSwibW9iaWxIX251bWJlciI6MTIzMTIzMTIzNCwiY291bnRyeV9pZCI6MSwic3RhdGVfaWQiOiJAsImRpc3RyaWN0X2lkljowLCJibG9ja19pZCI6MCwiZmFjaWxpdHlfaWQiOiJEsInVz
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## B) Registration APIs

1. Beneficiary Registration - API for beneficiary registration from partner applications. This API returns a beneficiary reference id as a unique identifier of the registered user. It also returns a token which is a user authentication token. This token is used as authentication token for appointment APIs.

<b>API</b>	Beneficiary Registration
<b>Request URL</b>	https://sit.co-vin.in/api/v1/registration/beneficiary/add
<b>Authentication Methos</b>	Token <i>*Requires System Authentication using Guest User</i>
<b>Request Method</b>	POST Content-Type: application/json;
<b>Sample Request Payload</b>	{ "name": "Apparao", "birth_year": "1980", "gender": "Male", "mobile_number": 8796561403, "photo_id_type": 1, "photo_id_number": 999999999999999, "health_id_number": null, "state_id": null, "district_id": null, "block_id": null, "locality_id": null, "pincode": null, "address": "null", "consent": "Y" }"consent":"Y/N"
<b>Sample Response</b>	{ "offline_mode": 0, "beneficiary_reference_id": 21363381933156, "token": "string" }

2. Beneficiary Update API- This Api is used for update the registered individuals

API	beneficiaryUpdate
Request URL	https://sit.co-vin.in/api/v1/registration/beneficiary/update
Request Method	POST
Authentication Method	Token <i>*Requires System Authentication using Guest User</i>
Sample Request Payload	<pre>{   "beneficiary_reference_id": 21363381933156,   "name": "Apparao11",   "birth_year": "1981",   "gender": "Male",   "mobile_number": 8796561403,   "photo_id_type": 1,   "photo_id_number": 999999999999999,   "health_id_number": null,   "state_id":,   "district_id":,   "block_id":,   "locality_id":,   "pincode":,   "address": "",   "consent": "Y" }</pre>
Sample Response	<pre>{   "offline_mode": 0,   "beneficiary_reference_id": 21363381933156,   "token": "string" }</pre>

### 3. Get beneficiary details – API to get beneficiary details by beneficiary reference id

<b>API</b>	Initiate beneficiary details
<b>Request URL</b>	<a href="https://sit.co-vin.in/api/v1/registration/beneficiary">https://sit.co-vin.in/api/v1/registration/beneficiary</a>
<b>Request Method</b>	Get
<b>Sample Request Payload</b>	{"beneficiary_reference_id":21363181496731}
<b>Sample Response</b>	<pre>{   "beneficiary_reference_id": 123412341234,   "name": "Rajesh Pawar",   "birth_year": 1995,   "gender": "Male",   "mobile_number": "*****1403",   "photo_id_type": 1,   "photo_id_number": "*****9999",   "state_name": "",   "district_name": "",   "block_name": "",   "locality_name": "",   "pincode": "",   "address": "" }</pre>

### 4. Delete Beneficiary API : API to delete a beneficiary by beneficiary reference id.

<b>API</b>	BeneficiaryDelete
<b>Request URL</b>	<a href="https://sit.co-vin.in/api/v1/registration/beneficiary/delete">https://sit.co-vin.in/api/v1/registration/beneficiary/delete</a>
<b>Request Method</b>	POST
<b>Sample Request Payload</b>	<pre>{   "beneficiary_reference_id": 123456789012 }</pre>
<b>Sample Response</b>	Deleted Succssesfully

#### 5. Mobile OTP – Initiate beneficiary authentication using mobile and OTP

<b>API</b>	Initiate mobile OTP for authentication
<b>Request URL</b>	<a href="https://sit.co-vin.in/api/v1/auth/confirmMobileOTP">https://sit.co-vin.in/api/v1/auth/confirmMobileOTP</a>
<b>Request Method</b>	POST
<b>Sample Request Payload</b>	{ "mobile": 9876543210 }
<b>Sample Response</b>	{ "otp": 123456, "txnId": "3fa85f64-5717-4562-b3fc-2c963f66afa6" }

#### 6. Mobile OTP Validation – Initiate mobile authentication using OTP ConfirmMobile/OTP

<b>API</b>	Confirm mobile OTP for authentication
<b>Request URL</b>	<a href="https://sit.co-vin.in/api/v1/auth/mobileOTP">https://sit.co-vin.in/api/v1/auth/mobileOTP</a>
<b>Request Method</b>	POST
<b>Sample Request Payload</b>	{ "otp": 123456, "txnId": "3fa85f64-5717-4562-b3fc-2c963f66afa6" }
<b>Sample Response</b>	{ "token": "string" }

#### 7. Authenticate – Authenticate a beneficiary by Beneficiary Reference Id, mobile and year of birth

<b>API</b>	Authenticate a beneficiary by Beneficiary Reference Id/Mobile/DoB
<b>Request URL</b>	<a href="https://sit.co-vin.in/api/v1/auth/confirmMobileDob">https://sit.co-vin.in/api/v1/auth/confirmMobileDob</a>
<b>Request Method</b>	POST
<b>Sample Request Payload</b>	{ "beneficiary_reference_id": 21363181496731, "mobile": 9871234567, "birth_year": 1980 }
<b>Sample Response</b>	{ "token": "string" }

8. Linked Beneficiaries - API to get the list of beneficiaries linked to the logged in/authenticated user's mobile number. This list can be useful to schedule one appointment for an entire family. This API requires beneficiary authentication using mobile/OTP or beneficiary reference number/mobile/date of birth validation.

<b>API</b>	API to get the list of beneficiaries linked to the logged in user's mobile number.
<b>Request URL</b>	https://sit.co-vin.in/api/v1/appointment/linkedBeneficiaries
<b>Authentication Method</b>	Token <i>*Requires User Authentication using Mobile/Aadhaar OTP</i>
<b>Authentication Method</b>	Token
<b>Request Method</b>	GET
<b>Sample Response</b>	<pre>{   "beneficiaries": [     {       "beneficiary_reference_id": 123412341234,       "name": "Rajesh Pawar",       "birth_year": 1995,       "gender": "Male",       "mobile_number": "*****1403",       "photo_id_type": 1,       "photo_id_number": "*****9999",       "state_name": "",       "district_name": "",       "block_name": "",       "locality_name": "",       "pincode": "",       "address": ""     },     {       "beneficiary_reference_id": 123412341963,       "name": "Ajay Pawar",       "birth_year": 1998,       "gender": "Male",       "mobile_number": "*****1803",       "photo_id_type": 1,       "photo_id_number": "*****8999",       "state_name": "",       "district_name": "",       "block_name": "",       "locality_name": "",       "pincode": "",       "address": ""     }   ] }</pre>

### C) Appointment API

1. Schedule Appointment : API to schedule an appointment for vaccination. An appointment can be scheduled for a selected center, on a selected date and for a selected time slot. An appointment can be scheduled for multiple beneficiaries provided their registered mobile number is same as the registered mobile number of the logged in or authenticated beneficiary. This API requires beneficiary authentication using mobile/OTP or beneficiary reference number/mobile/date of birth validateion

<b>API</b>	Schedule Appointment
<b>Request URL</b>	https://sit.co-vin.in/api/v1/appointment/scheduleAppointment
<b>Request Method</b>	POST
<b>Authentication Methos</b>	Token <i>*Requires System Authentication using Guest User</i>
<b>Sample Request Payload</b>	<pre>{   "center_id": 1234,   "date": "31-03-2021",   "slot_id": 1,   "beneficiaries": [     12341234123412   ] }</pre>
<b>Sample Response</b>	<pre>{   "appointment_confirmation_no": 21363381933156 }</pre>

2. Reschedule Appointment : API to reschedule an appointment for vaccination. This API requires beneficiary authentication using mobile/OTP or beneficiary reference number/mobile/date of birth validateion.

<b>API</b>	Reschedule Appointment
<b>Request URL</b>	https://sit.co-vin.in/api/v1/appointment/rescheduleAppointment
<b>Request Method</b>	POST
<b>Authentication Methos</b>	Token <i>*Requires System Authentication using Guest User</i>
<b>Sample Request Payload</b>	<pre>{   "appointment_confirmation_no": 21363381933156,   "center_id": 1234,   "date": "31-03-2021",   "slot_id": 1, }</pre>



	<pre>"beneficiaries": [   12341234123412 ] }</pre>
<b>Sample Response</b>	<pre>{   "appointment_confirmation_no": 21363381933156 }</pre>

3. Get Appointment Details : API to get the appointment details by for the logged in or authenticated beneficiary. This API requires beneficiary authentication using mobile/OTP or beneficiary reference number/mobile/date of birth validateion.

<b>API</b>	API to get appointment details of individuals
<b>Request URL</b>	https://sit.co-vin.in/api/v1/appointment
<b>Authenticatio n Methos</b>	Token <i>*Requires User Authentication using Mobile/Aadhaar OTP</i>
<b>Authenticatio n Methos</b>	Token
<b>Request Method</b>	GET
<b>Sample Response</b>	<pre>{   "appointments": [     {       "beneficiaries": [         {           "beneficiary_reference_id": 123412341234,           "name": "Rajesh Pawar",           "birth_year": 1995,           "gender": "Male",           "mobile_number": "*****1403",           "photo_id_type": 1,           "photo_id_number": "*****9999",           "state_name": "Maharashtra",           "district_name": "Satara",           "block_name": "Jaoli",           "locality_name": "Jaoli",           "pincode": 413608,           "address": "C/o Pandurang Pawar"         }       ],       "center": {         "center_id": 1234,         "name": "District General Hostpital",         "center_incharge": "Sunil Kumar",         "mobile": 8765432109, </pre>

	<pre> "state_name": "Maharashtra", "district_name": "Satara", "block_name": "Jaoli", "vtc": "Jaoli", "location": "string", "pincode": 413608, "area": "Urban", "timings": "string", "vaccine_type": "string", "daily_capacity": "string", "centre_type": "Permanent", "expiry_date": "string" }, "appointment": {   "appointment_confirmation_no": 21363381933156,   "date": "4-5-1995",   "slot_id": 1,   "slot_name": "Morning",   "timings": "9AM-11AM",   "status": "ACTIVE" } } ] } </pre>
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#### D) Metadata API

##### 1. get facility centers by pin

API	API to get centers by PIN
Request URL	https:// sit.co-vin.in /api/v1/appointment/centers/findByPin
Request Method	GET
Authentication Methos	Token <i>*Requires System Authentication using Guest User</i>
URL Parameter	pin=110003
Sample Response	<pre> {   "centers" : [     {       "center_id": "1234",       "name": "District General Hostpital",       "center_incharge": "Sunil Kumar",       "mobile": "",       "district": "",       "state": "",       "location": "",       "pin": "",       "block": "",       "vtc": "",       "area": "Urban/Rural",       "timings": "",       "vaccine_type": "",       "daily_capacity": "", </pre>

	<pre> "centre_type":"Permanent/Mobile/Static", "expiry_date":"" }, {   "center_id":"5678",   "name":"District Private Hostpital",   "center_incharge":"Sunil Kumar",   "mobile": "",   "district": "",   "state": "",   "location": "",   "pin": "",   "block": "",   "vtc": "",   "area": "Urban/Rural",   "timings": "",   "vaccine_type": "",   "daily_capacity": "",   "centre_type": "Permanent/Mobile/Static",   "expiry_date": "" } ] } </pre>
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## 2. Get facility centers by block

<b>API</b>	API to get centers by block
<b>Request URL</b>	https:// sit.co-vin.in /api/v1/appointment/centers/findbyBlock
<b>Authentication Methos</b>	Token <i>*Requires System Authentication using Guest User</i>
<b>Request Method</b>	GET
<b>URL Parameter</b>	block_id=1234
<b>Sample Response</b>	<pre> {   "centers" : [     {       "center_id":"1234",       "name":"District General Hostpital",       "center_incharge":"Sunil Kumar",       "mobile": "",       "district": "",       "state": "",       "location": "",       "pin": "",       "block": "",       "vtc": "",       "area": "Urban/Rural",       "timings": "",       "vaccine_type": "",       "daily_capacity": "",       "centre_type": "Permanent/Mobile/Static",       "expiry_date": ""     }   ] } </pre>

	<pre>     },     {       "center_id":"5678",       "name":"District Private Hostpital",       "center_incharge":"Sunil Kumar",       "mobile":"",       "district":"",       "state":"",       "location":"",       "pin":"",       "block":"","",       "vtc":"",       "area":"Urban/Rural",       "timings":"",       "vaccine_type":"",       "daily_capacity":"",       "centre_type":"Permanent/Mobile/Static",       "expiry_date":""     }   ] }</pre>
--	--

### 3. . Get centers by district

<b>API</b>	API to get centers by district
<b>Request URL</b>	<a href="https://sit.co-vin.in/api/v1/appointment/centers/findbyDistrict">https:// sit.co-vin.in /api/v1/appointment/centers/findbyDistrict</a>
<b>Authentication Methos</b>	Token <i>*Requires System Authentication using Guest User</i>
<b>Request Method</b>	GET
<b>URL Parameter</b>	district_id =1234
<b>Sample Response</b>	<pre> {   "centers" : [     {       "center_id":"1234",       "name":"District General Hostpital",       "center_incharge":"Sunil Kumar",       "mobile":"",       "district":"",       "state":"",       "location":"",       "pin":"",       "block":"","",       "vtc":"",       "area":"Urban/Rural",       "timings":"",       "vaccine_type":"",       "daily_capacity":"",       "centre_type":"Permanent/Mobile/Static",       "expiry_date":""     }   ], }</pre>

	<pre> {   "center_id":"5678",   "name":"District Private Hospital",   "center_incharge":"Sunil Kumar",   "mobile":"",   "district":"",   "state":"",   "location":"",   "pin":"",   "block":"",   "vtc":"",   "area":"Urban/Rural",   "timings":"",   "vaccine_type":"",   "daily_capacity":"",   "centre_type":"Permanent/Mobile/Static",   "expiry_date":"" } ] } </pre>

#### 4. Get time slots by center and date range

<b>API</b>	API to get time slots by center and date range
<b>Request URL</b>	https://host/api/v1/appointment/timeslots/findByCenter
<b>Request Method</b>	GET
<b>URL Parameter</b>	center_id=1234 from=01-03-2021 to=31-01-2021
<b>Authentication Methos</b>	Token <i>*Requires System Authentication using Guest User</i>
<b>Sample Response</b>	<pre> {   "center_id":"1234",   "timeslots" : [     {       "date":"01-03-2021",       "slot_id":"3456",       "slot_name":"Morning",       "timings":"9AM-11AM",       "available_capacity":"5"     },     {       "date":"02-03-2021",       "slot_id":"9673",       "slot_name":"Afternoon",       "timings":"1PM-3PM",       "available_capacity":"0"     }   ] } </pre>

5. Get Photo ID Type – This API is an authenticated GET request to get all the ID type

<b>API</b>	getBeneficiaryIDType
<b>Request URL</b>	https://sit.co-vin.in/api/v1/registration/beneficiary/getBeneficiaryIdType
<b>Request Method</b>	GET
<b>Sample Request Payload</b>	/api/v1/registration/beneficiary/getBeneficiaryIDType
<b>Sample Response</b>	<pre>[   {     "type": "Aadhaar Card",     "id": 1,     "doc_type": null   },   {     "type": "Driving License",     "id": 2,     "doc_type": "DRVLC"   },   {     "type": "Health Insurance Smart Card issued under the scheme of Ministry of Labour",     "id": 3,     "doc_type": null   },   {     "type": "MNREGA Job Card",     "id": 4,     "doc_type": "MNRGA"   },   {     "type": "Official identity cards issued to MPs/MLAs/MLCs",     "id": 5,     "doc_type": null   },   {     "type": "PAN Card",     "id": 6,     "doc_type": "PANCR"   },   {     "type": "Passbooks issued by Bank/Post Office",     "id": 7,     "doc_type": null   },   {     "type": "Passport",     "id": 8,     "doc_type": "PSPRT"   },   {</pre>

	<pre> "type": "Pension Document", "id": 9, "doc_type": null }, {   "type": "Service Identity Card issued to employees by Central/ State Govt./ PSUs/ Public Limited Companies",   "id": 10,   "doc_type": null }, {   "type": "Smart Card issued by RGI under NPR",   "id": 11,   "doc_type": null }, {   "type": "Voter ID",   "id": 12,   "doc_type": "VTRID" }, {   "type": "Others(Local Authority)",   "id": 13,   "doc_type": null } } ] </pre>
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6. Get Gender– This API is authenticated request to get all the gender

<b>API</b>	GetGender
<b>Request URL</b>	<a href="https://sit.co-vin.in/api/v1/registration/beneficiary/getGender">https://sit.co-vin.in/api/v1/registration/beneficiary/getGender</a>
<b>Request Method</b>	GET
<b>Sample Request Payload</b>	/v1/registration/beneficiary/getGender
<b>Sample Response</b>	<pre> [   {     "gender": "Male",     "id": 1   },   {     "gender": "Female",     "id": 2   } ] </pre>

	<pre> }, {   "gender": "Others",   "id": 3 } ] </pre>
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7. Get State – This API is authenticated request to get all the state details

<b>API</b>	states
<b>Request URL</b>	https://sit.co-vin.in/api/v1/admin/location/states
<b>Request Method</b>	GET
<b>Sample Request Payload</b>	/api/v1/admin/location/states
<b>Sample Response</b>	[{"state_id":58,"state_name":"123"}, {"state_id":56,"state_name":"Ambegaon"}, {"state_id":1,"state_name":"Andaman and Nicobar Islands"}, {"state_id":2,"state_name":"Andhra Pradesh"}, {"state_id":3,"state_name":"Arunachal Pradesh"}, {"state_id":4,"state_name":"Assam"}, {"state_id":5,"state_name":"Bihar"}]

8. Get District – This API is authenticated request to get all the district details based on the selected state

<b>API</b>	districts/:stateID
<b>Request URL</b>	https:// sit.co-vin.in /api/v1/admin/location/districts/21
<b>Request Method</b>	GET
<b>Sample Request Payload</b>	/api/v1/admin/location/districts/21
<b>Sample Response</b>	[{"district_id":391,"district_name":"Ahmednagar"}, {"district_id":364,"district_name":"Akola"}]



9. Get Block – This API is authenticated request to get all the block details based on the selected district

<b>API</b>	blocks/:districtId
<b>Request URL</b>	https:// sit.co-vin.in /api/v1/admin/location/blocks/931
<b>Request Method</b>	GET
<b>Sample Request Payload</b>	/api/v1/admin/location/blocks/931
<b>Sample Response</b>	[{"block_id":195,"block_name":"Block 164"}]

10. Get Locality - This API is authenticated request to get all locality details by pincode.

<b>API</b>	getLocalitybyPincode
<b>Request URL</b>	https:// sit.co-vin.in /api/api/v1/admin/location/getLocalitybyPincode/112233
<b>Request Method</b>	GET
<b>Sample Request Payload</b>	/api/v1/registration/beneficiary/v2/getComorbidity
<b>Sample Response</b>	[{"locality_id":1,"office_name":null,"locality_name":"Naya Kheda, Richhawar","pincode":112233}]

## HTTP Response (Sucess/Failure)

Status	Response
200	{"offline_mode":0,"beneficiary_reference_id":21363381933156}
400	{"errorCode":"USRRES0001", "error":"INPUT_FILE_MISSING"}
400	{"errorCode":"USRRES0002", "error":"INVALID_FILE_NAME"}
400	{"errorCode":"USRRES0003", "error":"INVALID_FILE_TYPE"}
400	{"errorCode":"USRRES0005", "error":"INVALID_FILE_HEADERS","Wrong-Headers":{"Worng column names"}}}
401	Unauthenticated access!
500	Internal Server Error

## HTTP Response Code

Status	Description
200	OK
400	Bad Request
401	Unauthorized
500	Internal Server Error