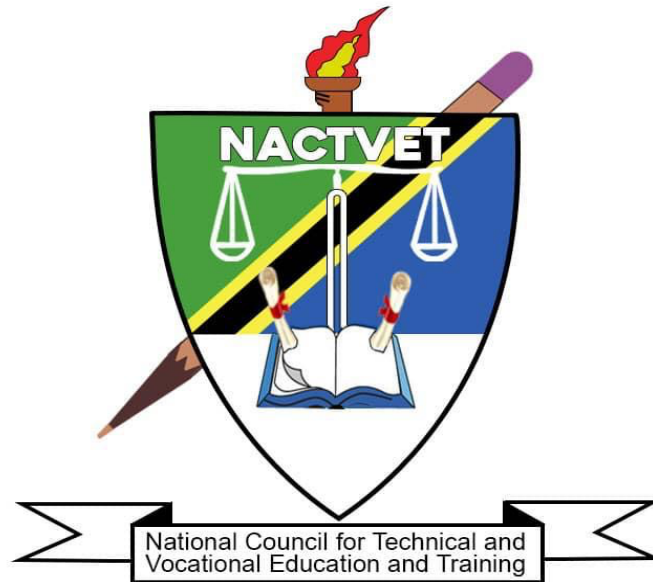


NATIONAL COUNCIL FOR TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING



2022

Application Programming Interface (API)

1.0: INTRODUCTION

1.1 Background

The National Council for Technical Education (NACTE) is a corporate body established by the NACTE Act Cap. 129. The Act provides a legal framework for the Council to coordinate the provision of technical education and training, and establish an efficient national qualifications system that will ensure that products from technical institutions are of high quality and respond to the labour market needs.

NACTE has developed API (Application Programming Interface) so as to support student's verification during admission process.

1.2 Objectives

The main objectives of these API are to act like bridge between our databases and institutions in student's verifications by providing details for a particular result. Also, software developers/Computer Programmers can adopter it as tools for accessing NACTE databases in secure manner without intervention.

1.3 Nature of the service

NACTE will provide necessary details for API authentication to institutions upon request done by institution.

1.4 Scope

The scope of this document is to specify and illustrate the integration requirements in terms of end points, data sets and connectivity requirements for technical experts. Services available for external stakeholders of NACTE'S Integrated Admission System are as follows:

- Institutional programmes details
- Award verification number
- Upload list for verification
- Get pushed list (immediate uploaded list)
- Get NTA Results for particular student
- Get list for verified selected students
- feedback error & correction
- Get list of successfully pushed students
- Enroll Students
- Get list of enrolled students

2.0 API DOCUMENTATION

2.1 INSTITUTIONS PROGRAMME DETAILS

This API provide access to a specific institutions (name) of which a client will be able to view programmes (names, programme_id(s)) recognized by Council

2.1.1 URL Structure

URI scheme provides access to the list of results entities ‘institutions/’:

Request

Method	URL
GET	https://www.nacte.go.tz/nacteapi/index.php/api/institutions/{tokens}

Type	Parameters	Data Types	Description
GET	Tokens	String	Character sets

Keys

Sub-elements of an institutions entity are made available as sub-resources of /institutions/{keys}. Key used to identify the client send.

Response

Code	Name	Response
200	OK	{ content of the results }
4XX	Return Status Code	Response { code: <Error code> “message”: <Error message> }

Status: 200 (
Response is object containing details

```
{  
  "params": [{  
    "programme": "<Programme name>",  
    "programme_id": "<Programme id>"  
  }],  
  "  
  
  "code": 200  
}
```

An example of response (JSON response)

```
{  
  "params": [{  
    "programme": "Computer Science",  
    "programme_id": "bcv78901oppp123441"  
  }],  
  "  
  
  "code": 200  
}
```

Response status

Status 4XX:

JSON Responses

status

```
{  
  "code": 4 xx,  
  "message": "<Message>"  
}
```

2.2 AWARD VERIFICATION NUMBER (AVN)

This API provide access to request personal details for a particular Diploma results ((NTA, Non-NTA, Foreign Diploma(s)).for students having AVN.

2.2.1 URL Structure

Request

Method	URL		
GET	https://www.nacte.go.tz/nacteapi/index.php/api/results/{keys}/{AVN}		
Type	Params	Data Type	Description
GET	Token	String	Character sets
GET	AVN	String	Award verification number, Character

Response

Code	Name	Response
200	OK	{ content of the results }
4XX	Return Status Code	Response { code: <Error code> "message": <Error message> } status 4XX { "code": 4 xx, "message": "<Message>" } <See glossary>

Status: 200

Response is object containing details

```
{
  "params": [{
    "AVN": "<award verification number>",
    "username": "<username>",
    "firstname": "<firstname>",
    "middlename": "<middlename>",
    "surname": "<surname>",
    "date_birth": "<date_birth>",
    "gender": "<gender>",
    "programme_name": "<programme_name>",
    "diploma_code": "<diploma_code>",
    "institution_name": "<institution_name>",
    "diploma_gpa": "<diploma_gpa>",
    "diploma_results": [
      [
        "<subject name>",
        "<grade>"
      ]
    ],
  ]
},
],
code: "200"
}
```

example of response

```
{
  "params": [{
    "AVN": "Nxxxxxxxxxxxxxxxx",
    "username": "SXXXX/MMMM/YYYY",
    "firstname": "MISAGO",
    "middlename": "M",
    "surname": "MISAGO",
    "date_birth": "1989-05-11",
    "gender": "M",
    "registration_number": "E0507/0522",
    "diploma_gpa": "2.6",
    "diploma_graduation_year": 2013,
    "diploma_code": "OD0008",
    "diploma_category": "EDUCATION",
    "institution": "NATIONAL EXAMINATION COUNCIL OF TANZANIA",
    "programme": "DIPLOMA IN TEACHERS/SECONDARY EDUCATION",
    "diploma_results": [{
      "subject": "Block Teaching Practice",
      "grade": "B"
    },
    {
      "subject": "CURRICULUM AND TEACHING",
      "grade": "D"
    },
    {
      "subject": "FOUNDATIONS OF EDUCATION",
      "grade": "C"
    },
    {
      "subject": "EDUC. RES. MEAS. & EVALUATION",

```

```
      "grade": "D"  
    },
```

```
  ]  
},  
"code": 200  
}
```

2.3 UPLOAD LIST OF SELECTED APPLICANTS FOR VERIFICATION TO NACTE DATABASE

Url: <https://www.nacte.go.tz/nacteapi/index.php/api/upload>

Authorization: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Method: POST

Content-Type: application/json

```
[{
  "heading": {
    "authorization": "<authorization>",
    "intake": "<intake>",
    "programme_id": "<programme_id>",
    "application_year": "<application_year>",
    "level": "<level>",
    "payment_reference_number": "<payment_reference_number>"
  },
  "students": [{
    "particulars": {
      "firstname": "<firstname>",
      "secondname": "<secondname>",
      "surname": "<surname>",
      "DOB": "<DOB>",
      "gender": "<gender>",
      "impairment": "<impairment>",
      "form_four_indexnumber": "<form_four_indexnumber>",
      "form_four_year": "<form_four_year>",
      "form_six_indexnumber": "<form_six_indexnumber>",
      "form_six_year": "<form_six_year>",
      "NTA4_reg": "<NTA4_reg>",
      "NTA4_grad_year": "<NTA4_grad_year>",
      "NTA5_reg": "<NTA5_reg>",
      "NTA5_grad_year": "<NTA5_grad_year>",
      "email_address": "<email_address>",
      "mobile_number": "<mobile_number>",
      "address": "<address>",
      "region": "<region>",
      "district": "<district>",
      "nationality": "<nationality>",
      "next_kin_name": "<next_kin_name>",
      "next_kin_address": "<next_kin_address>",
      "next_kin_email_address": "<next_kin_email_address>",
      "next_kin_phone": "<next_kin_phone>",
      "next_kin_region": "<next_kin_region>",
      "next_kin_relation": "<next_kin_relation>"
    }
  }
}]
```


For a student having more than one seat in the form four and form six examination, here is a syntax.

```
[{
  "heading": {
    "authorization": "<authorization>",
    "intake": "<intake>",
    "programme_id": "<programme_id>",
    "application_year": "<application_year>",
    "level": "<level>",
    "payment_reference_number": "<payment_reference_number>"
  },
  "students": [{
    "particulars": {
      "firstname": "<firstname>",
      "secondname": "<secondname>",
      "surname": "<surname>",
      "DOB": "<DOB>",
      "gender": "<gender>",
      "impairment": "<impairment>",
      "form_four_indexnumber": "<form_four_indexnumber,form_four_indexnumber1>",
      "form_four_year": "<form_four_year, form_four_year1>",
      "form_six_indexnumber": "<form_six_indexnumber>",
      "form_six_year": "<form_six_year>",
      "NTA4_reg": "<NTA4_reg>",
      "NTA4_grad_year": "<NTA4_grad_year>",
      "NTA5_reg": "<NTA5_reg>",
      "NTA5_grad_year": "<NTA5_grad_year>",
      "email_address": "<email_address>",
      "mobile_number": "<mobile_number>",
      "address": "<address>",
      "region": "<region>",
      "district": "<district>",
      "nationality": "<nationality>",
      "next_kin_name": "<next_kin_name>",
      "next_kin_address": "<next_kin_address>",
      "next_kin_email_address": "<next_kin_email_address>",
      "next_kin_phone": "<next_kin_phone>",
      "next_kin_region": "<next_kin_region>",
      "next_kin_relation": "<next_kin_relation>"
    }
  }
}]
```

[illegible]

```
//execute the POST request
$result = curl_exec($ch);

//close cURL resource
curl_close($ch);

//echo message
echo $result;
```

Note: For applicant with form six index number having more than one seat, data set is applied like form four with multiple seat.

REQUEST PAYLOAD

Attribute	Field Format type, length	Usage	Description
authorization	Varchar,145	Mandatory	Key that represents institution (provided on request)
programme_id	Varchar, 145	Mandatory	Programmes id provided in institutions details api link(see 2.2)
payment_reference_number	Varchar, 45	Mandatory	Receipt number obtained after payment
application_year	Varchar 4	Mandatory	Academic year , should be in this format (YYYY eg 2017)
Intake	Varchar 15	Mandatory	Period in admission circle (March OR september)
Level	Integer	Mandatory	Programme level eg 4 for NTA4, 5 for NTA5
Firstname	Varchar,45	Mandatory	First name
Secondname	Varchar,45	Optional	Middle name/ second name
Surname	Varchar, 45	Mandatory	Surname
DOB	Date	Mandatory	Date of birth eg 12.04.1989/ 1989.05.25
form_index_number	Varchar, 15	Mandatory	Form Four Index Number in specific format Form Four Index Number format "S1001/0012"
Impairment	Varchar, 15	Mandatory	Disabilities . Defined impairment to use (None, Cognitive Impairments, Language Impairments, Physical Impairments, Sensory Impairments, Specific Learning Difficulties, Speech Impairments)

Gender	Varchar, 12	Mandatory	Sex (male , female)
form_four_year	Varchar, 4	Mandatory	Year completed Ordinary level (Certificate for secondary Education) Eg. 2017
form_six_indexnumber	Varchar, 15	Optional	Form Six Index Number in specific format Form Six Index Number format eg "S1001/0012"
form_six_year	Varchar, 4	Optional	Year completed Advance level (Certificate for secondary Education) Eg. 2017
NTA4_reg	Varchar, 45	Optional	NTA Level 4 registration number (Basic Technician Certificate)
NTA4_grad_year	Varchar, 45	Optional	Year completed level NTA 4 (Basic Technician Certificate) Eg. 2017

NTA5_reg	Varchar, 45	Optional	NTA Level 5 registration number (Basic Technician Certificate)
email_address	Varchar, 45	Mandatory	Email (format)
mobile_number	Varchar,12	Mandatory	Mobile number/phone number (eg. 0712345678)
next_kin_region	Varchar, 45	Mandatory	Region living you relative
Nationality	Varchar, 45	Mandatory	Citizenship
next_of_kin_name	Varchar, 145	Mandatory	Full name
next_kin_address	Text	Optional	Address (P.O Box)
next_kin_email	Varchar 45	Optional	Email
next_kin_phone	Varchar,12	Mandatory	Period in admission circle (March OR september)
next_kin_region	Varchar, 45	Mandatory	Programme level eg 4 for NTA4, 5 for NTA5
next_kin_relationship	Varchar, 15	Mandatory	Relationship between you and next of kin (eg, farther, Mother, uncle etc)

2.4 GET PUSHED LIST (UPLOADED LIST FROM NACTE DATABASE)

Get list of immediate pushed student in part 2.3

2.4.1 URL Structure

URI scheme provides access to the list of results entities ‘/pushedlist/’

Request

Method	URL		
GET	https://www.nacte.go.tz/nacteapi/index.php/api/pushedlist/{programme_id}-{application_year}-{intake}/{keys}		
Type	Params	Data Type	description
GET	programme_id	String	Programme id Character sets (see 2.1)
GET	academic_year	String	Academic Year Character eg 2007, 2016, 2017 etc
GET	intake	String	Intake character (march or september)

Response

Code	Name	Response
200	OK	{ content of the results }
4XX	Return Status Code	Response { code: <Error code> “message”: <Error message> } <See glossary>

Response object details (JSON)

```
"params":[
{
    "indexnumber":"<indexnumber >"
    "surname":"<surname>",
    "secondname ":"<secondname >",
    "surname":"<surname >",
    "application_year":"<application_year >",
    "intake":"<intake>",
    "payment_reference_number":"<payment_reference_number >",
    "submission_status":"<submission_status >"
    "update_status":"<update_status>";
}
],
"code": 200

}
```

Other Responses

status 4XX

```
{
    "code": 4 xx,
    "message": "<Message>"
}
```

An example of response (JSON response)

```
{
    params:
    [
        {
            'indexnumber': "MYIII/MMVV/BBAA",
            'firstname:' "Margreth",
            'secondname': "",
            'surname': "Sana",
            'application_year': "2021",
            'intake': "SEPT",
            'payment_reference_number': "APITEST1003",
            'submission_status': "Pending and waiting for verification",
            update_status: "No any update"
        }
    ],
    code: 200,
    message: "OK"
}
```

2.5 GET RESULTS FOR PARTICULAR STUDENT

Get particular results of students from NACTE Examinations database at any level (NTA4, NTA5,NTA6)

2.5.1 URL Structure

URI scheme provides access to the list of results entities ‘/particulars/’:

Request

Method	URL		
GET	https://www.nacte.go.tz/nacteapi/index.php/api/particulars/{registration_number}-{level}/{keys}		
Type	Parameters	Data Types	description
GET	Keys	String	Character sets
GET	registration_number	String	Registration number Character. Replace “/” with “.” if separated by “/” (Eg NS0001/0002/2001 will be NS0001.0002.2001)
GET	Level	String	NTA Level (4 for NTA4, 5 for NTA5 and 6 for NTA6)

Response

Code	Name	Response
200	OK	{ content of the results }
4XX	Return Status Code	Response { code: <Error code> “message”: <Error message> } status 4XX { "code": 4 xx, "message": "<Message>" } <See glossary>

Response object details (JSON)

```
{
  "params": [{
    "registration_number": "xxxx/2014/DDD/MMMM",
    "firstname": "JIGO",
    "middle_name": "",
    "surname": "JIGO",
    "sex": "Male",
    "DOB": "08/11/1999",
    "academic_year": "2014/2015",
    "institution_name": "Mtwara (k) Teachers College",
    "institution_id": "YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY",
    "programme_name": "Technician Certificate in Early Childhood Education",
    "programme_id": "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX",
    "GPA": "3.1",
    "class_award": "SECOND"
  ]},
  "code": 200
}
```


2.5 DOWNLOAD VERIFIED APPLICANTS FROM NACTE DATABASE

To get list of verified students from NACTE Database

2.5.1 URI Structure

The structure of the URL is as shown in the Table below.

Request

Method	URL		
GET	https://www.nacte.go.tz/nacteapi/index.php/api/verificationresults/{programme_id}-{academic_year}-{intake}/{key}		
Type	Params	Data Type	description
GET	programme_id	String	Programme id Character sets (see 2.1
GET	academic_year	String	Academic Year Character eg 2007, 2016, 2017 etc
GET	Intake	String	Intake character (march or september)

Response

Code	Name	Response
200	OK	{ content of the results }
4XX	Return Status Code	Response { code: <Error code> "message": <Error message> } <See glossary>

Response object details (JSON)

```
"params":[
{
    "username":"<username>"
    "user_id":"<user_id>",
    "verification_status":"<verification_status>",
    "multiple_selection":"<multiple_selection>",
    "academic_year":"<academic_year>",
    "intake":"<intake>",
    "eligibility":"<eligibility>",
    "remarks":"<remarks>";
}
],"
```

"code": 200

```
}
```

Other Responses

status 4XX

```
{
    "code": 4 xx,
    "message": "<Message>"
}
```

An example of response (JSON response)

```
{
    "params": [{
        "username": "SXXX/MMMM/YYYY",
        "user_id": "20NNNNNNNN",
        "verification_status": "Verified and Approved",
        "multiple_selection": "no multiple",
        "academic_year": "2019",
        "intake": "SEPT",
        "eligibility": "Eligible",
        "remarks": "Eligible for the programme"
    }],
    "code": 200
}
```

2.6 GET PAYMENT BALANCE:

To get balance o remaining balance after uploading to students for verification

2.6.1 URI Structure

The structure of the URL is as shown in the Table below

Request

Method	URL		
GET	https://www.nacte.ac.tz/nacteapi/index.php/api/payment/{payment_reference_id}/{token}		
Type	Params	Data Type	description
GET	payment_reference_number	String	Payment reference number Character sets
GET	Tokens	String	Character Sets

Note: Payment_reference_id obtained once payment done via control number generated

Response object details (JSON)

```
{
  "params": [{
    "balance": "balance"
  }],
  "code": 200,
}
```

An example of response (JSON response)

```
{
  "params": [{
    "balance": "560000"
  }],
  "code": 200,
}
```

2.7: FEEDBACK ERROR & CORRECTION

This is for updating of all submitted selected applicants with errors .

2.7.1: GET FEEDBACK ERROR

Aim is to see all submitted selected applicants with errors .

2.7.2 URI Structure

The structure of the URL is as shown in the Table below.

Request

Method	URL		
GET	https://www.nacte.go.tz/nacteapi/index.php/api/feedbackcorrection{programme_id}-{academic_year}-{intake}/{token}		
Type	Params	Data Type	description
GET	programme_pid	String	Programme id Character sets
GET	application_year	String	Academic Year Character sets (eg.2017)
GET	Intake	String	Character set (September / March)
GET	Token	String	Character sets

Response object details (JSON)

```
{
  "params": [{
    "student_verification_id": "19XXXXXXXXXX",
    "user_id": "XXXX/XXXX/XXXX",
    "programme_id": "programme_id",
    "firstname": "HAMDANI",
    "secondname": "",
    "surname": "MTITI",
    "mobile_number": "0700000000",
    "email_address": "mtiti@nacte.go.tz",
    "form_four_indexnumber": "S0001/1116",
    "form_four_year": "2001",
    "form_six_indexnumber": "",
    "form_six_year": null,
    "NTA4_reg": "xxxxxxxx",
    "NTA4_grad_year": "2016",
    "NTA5_reg": "NS0001/0001/1116",
    "NTA5_grad_year": "1119",
    "remarks": "NTA Level 4 Registration Number not found in NACTE database Code:7009"
  }],
}
```

2..7.3: UPLOAD ERROR CORRECTION

On uploading list of corrected selected applicants to NACTE database

(JSON Format)

Url: <https://www.nacte.go.tz/nacteapi/index.php/api/addcorrection>

Authorization: xxxxxxxxxxxxxxxxxxxxxxxxx

Methed: POST

Content-Type: application/json

```
[{
  "heading": {
    "authorization": "<authorization>",
    "programme_id": "<programme_id>",
    "application_year": "<application_year>",
    "level": "<level>",
  },
  "students": [{
    "student": {
      "student_verification_id": "<student_verification_id>",
      "firstname": "<firstname>",
      "secondname": "<secondname>",
      "surname": "<surname>",
      "mobile_number": "<mobile_number>",
      "email_address": "<email_address>",
      "form_four_indexnumber": "<form_four_indexnumber>",
      "form_four_year": "<form_four_year>",
      "form_six_indexnumber": "<form_six_indexnumber>",
      "form_six_year": < form_six_year > ,
      "NTA4_reg": "<NTA4_reg>",
      "NTA4_grad_year": "<NTA4_grad_year>",
      "NTA5_reg": "<NTA5_reg>",
      "NTA5_grad_year": "<NTA5_grad_year>",
    }
  }
}]
```

Sample Code

```
//API URL
$url = 'https://www.nacte.go.tz/nacteapi/index.php/api/addcorrection';

//create a new cURL resource
$ch = curl_init($url);

$data =
array(
    'heading' => array(
        'authorization' => 'xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx',
        'intake' => 'SEPTEMBER',
        'programme_id' => 'yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy',
        'academic_year' => '2020',
        'level' => '4',
    ),
    'students' => array(
        ['student' => array(
            'student_verification_id' => '20U099999600000',
            'firstname' => 'SAMAK',
            'secondname' => 'CASTO',
            'surname' => 'MKUBWA',
            'email_address' => 'leocadiasemindu@gmail.com',
            'mobile_number' => '786527901',
            'form_four_indexnumber' => 'S0000/0000',
            'form_four_year' => '2011',
            'form_six_indexnumber' => '',
            'form_six_year' => '',
            'NTA4_reg' => '100000/T.13',
            'NTA4_grad_year' => '2014',
            'NTA5_reg' => '',
            'NTA5_grad_year' => '',
        )]
    )
);

$payload = json_encode(array($data));

//attach encoded JSON string to the POST fields
curl_setopt($ch, CURLOPT_POSTFIELDS, $payload);

//set the content type to application/json
curl_setopt($ch, CURLOPT_HTTPHEADER, array('Content-Type:application/json'));

//return response instead of outputting
curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);

//execute the POST request
$result = curl_exec($ch);

//close cURL resource
curl_close($ch);

//echo message
echo $result;
```

PAYLOAD REQUEST

Attribute	Field FormatType & Length	Usage	Description
Authorization	Varchar, 145	Mandatory	Key that represents institution (provided on request)
student_verification_id	Varchar, 45	Mandatory	This is key identity or unique identity to Nacte database. (Any submission without this student_verification_id is void)
programme_id	Varchar, 145	Mandatory	Change if submission was done in wrong programme (Provided in institutions details 2.1)
Firstname	Varchar,15	Mandatory	First name of applicant
Secondname	Varchar,15	Mandatory	Middle name of applicant
Surname	Varchar, 15	Mandatory	Surname
mobile_number	Varchar, 10	Mandatory	Mobile number, format 0XXXXXXXXX eg 0710000000

email_address	Varchar, 45	Mandatory	Email address
form_four_indexnumber	Varchar, 9	Mandatory	Form Four Index Number format "S1001/0012"
form_four_year	Varchar, 4	Mandatory	Year completed Ordinary level (Certificate for secondary Education) Eg. 2017
Form Six Index Number	Varchar, 9	Optional	Form Six Index Number in specific format Form Six Index Number format "S1001/0012"

form_six_year	Varchar, 4	Optional	Year completed Advance level (Certificate for secondary Education) Eg. 2017
NTA4_reg	Varchar, 45	Optional	NTA Level 4 registration number (Basic Technician Certificate)
NTA4_grad_year	Varchar, 45	Optional	Year completed level NTA 4 (Basic Technician Certificate) Eg. 2017
NTA5_reg	Varchar, 45	Optional	NTA Level 5 registration number (Technician Certificate)
NTA5_grad_year	Varchar, 45	Optional	Year completed level NT5 4 (Technician Certificate) Eg. 2017

2.8 Enroll students

To enroll verified applicant to NACTE Database.

(JSON Format)

Url: <https://www.nacte.go.tz/nacteapi/index.php/api/registerstudent>

Authorization: xxxxxxxxxxxxxxxxxxxxxxxxx

Method: POST

Content-Type: application/json

```
[{
  "authorization": "<authorization>",
  "student_verification_id": "<student_verification_id>",
  "upload_user": "<upload_user>",
  "programme_id": "<programme_id>",
  "intake": "<intake>",
  "year": "<year>",
}]
```


Sample Code

```
// API URL
$url = 'https://www.nacte.go.tz/nacteapi/index.php/api/registerstudent';

// create a new cURL resource
$ch = curl_init($url);

$data = array(
    'authorization' => 'XY4753782067d7b70b513967939399009928219e3722535afe688462848',
    'student_verification_code' => 'xxxxxxxxxx',
    'upload_user' => 'mtiti',
    'programme_id' => 'vcbbcbbyyuuuid',
    'intake' => 'SEPT',
    'year' => '2021',
);

$payload = json_encode(array($data));

// attach encoded JSON string to the POST fields
curl_setopt($ch, CURLOPT_POSTFIELDS, $payload);

// set the content type to application/json
curl_setopt($ch, CURLOPT_HTTPHEADER, array('Content-Type:application/json'));

// return response instead of outputting
curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);

// execute the POST request
$result = curl_exec($ch);

// close cURL resource
curl_close($ch);

echo $result;
```

Attribute	Field FormatType & Length	Usage	Description
Authorization	Varchar, 145	Mandatory	Key that represents institution (provided on request)
student_verification_id	Varchar, 45	Mandatory	This is key identity or unique verified applicant provided during verification.
Programme_id	Varchar, 145	Mandatory	
Intake	Varchar,15	Mandatory	September, March
Year	Varchar,4	Mandatory	Application Year (year verified)

2.9 DOWNLOAD LIST OF ENROLLED STUDENTS

To get list of enrolled students from NACTE Database.

2.9.1 URI Structure

The structure of the URL is as shown in the Table below.

Request

Method	URL		
GET	https://www.nacte.go.tz/nacteapi/index.php/api/institutionenrollment/{programme_id}-{academic_year}-{semester}-intake/{tokens}		
Type	Params	Data Type	description
GET	programme_id	String	Programme id Character sets (see 2.1
GET	academic_year	String	Academic Year Character eg 2007, 2016, 2017 etc
GET	Semester	String	Terms within academic year (format “ONE” for semester I and “TWO” for semester II etc
GET	Intake	String	Intake character (march or september)
GET	Token	String	Character sets

Response

Code	Name	Response
200	OK	{ content of the results }
4XX	Return Status Code	Response { code: <Error code> “message”: <Error message> } <See glossary>

Response object details (JSON)

```
"params":[
{
  "registration_number":"<registration_number>"
  "first_name":"<first_name>",
  "middle_name ":"<middle_name >",
  "sex":"<sex>",
  "programme_id":"<programme_id>",
  "intake":"<intake>",
  "semester":"<semester>",
  "academic_year":"<academic_year>",
  "form_index_number":"<form_index_number>",
  "level":"<level>";
}
],
"code": 200

}
```

Other Responses

status 4XX

```
{
  "code": 4 xx,
  "message": "<Message>"
}
```

2.10 UPDATE BIODATA – ENROLLMENT

This end point used to update some biodata (personal particulars & next of kin information) perhaps left during submission. Missing of some information may result into failure of enrolling selected applicants.

Note: only applicable if you get error “failure to enroll due”

Url: <https://www.nacte.go.tz/nacteapi/index.php/api/updatebiodata>

Authorization: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Method: POST

Content-Type: application/json

```
{
  "heading": {
    "authorization": "<authorization>",
    "intake": "<intake>",
    "programme_id": "<programme_id>",
    "application_year": "<application_year>"
    "upload_user": "<upload_user >"
  },
  "students": [{
    "particulars": {
      "student_verification_id": "< student_verification_id>",
      "DOB": "<DOB>",
      "gender": "<gender>",
      "impairment": "<impairment>",
      "email_address": "<email_address>",
      "mobile_number": "<mobile_number>",
      "address": "<address>",
      "region": "<region>",
      "district": "<district>",
      "nationality": "<nationality>",
      "next_kin_name": "<next_kin_name>",
      "next_kin_address": "<next_kin_address>",
      "next_kin_email_address": "<next_kin_email_address>",
      "next_kin_phone": "<next_kin_phone>",
      "next_kin_region": "<next_kin_region>",
      "next_kin_relation": "<next_kin_relation>"
    }
  }]
}
```

Sample Code

//API URL

```
$url = 'https://www.nacte.go.tz/nacteapi/index.php/api/updatebiodata';
$ch = curl_init($url);

$data = array(
    'heading' => array(
        'authorization' => 'vvvmm05323ccccccmmmmmyyyyyybgggg',
        'programme_id' => 'cv3acefea1nnnmmmcccxxxxttyyyybnnnnnn',
        'application_year' => '2021',
        'intake' => 'SEPT',
        'upload_user' => 'Emakulata Kisanga',
    ),
    'students' => array(
        ['particulars' => array(
            'student_verification_id' => '21N4YYYYYYYYYY',
            'DOB' => '23-05-2000',
            'gender' => 'Male',
            'impairment' => 'None',
            'email_address' => 'francimmm83@gmail.com',
            'mobile_number' => '0624000000',
            'address' => 'Box 707 DAR ES SALAAM',
            'region' => 'DAR ES SALAAM',
            'district' => 'UBUNGO',
            'nationality' => 'Tanzanian',
            'next_kin_name' => 'Haymon s chitalilo',
            'next_kin_address' => 'Dar es salaam,mbagala',
            'next_kin_email_address' => 'francimmmmm83@gmail.com',
            'next_kin_phone' => '0673000000',
            'next_kin_region' => 'Dar es Salaam',
            'next_kin_relation' => 'Baba'
        )
    ],
)
);

$payload = json_encode(array($data));
// attach encoded JSON string to the POST fields
curl_setopt($ch, CURLOPT_POSTFIELDS, $payload);
// set the content type to application/json
curl_setopt($ch, CURLOPT_HTTPHEADER, array('Content-Type:application/json'));
// return response instead of outputting
curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
// execute the POST request
$result = curl_exec($ch);
// close cURL resource
curl_close($ch);
// echo message
echo $result;
```

REQUEST PAYLOAD

Attribute	Field Format type, length	Usage	Description
Authorization	Varchar,145	Mandatory	Key that represents institution (provided on request)
programme_id	Varchar, 145	Mandatory	Programmes id provided in institutions details api link(see 2.2)
application_year	Varchar 4	Mandatory	Academic year , should be in this format (YYYY eg 2017)
Intake	Varchar 15	Mandatory	Period in admission circle (March OR september)
DOB	Date	Mandatory	Date of birth eg 12.04.1989/ 1989.05.25
Impairment	Varchar, 15	Mandatory	Disabilities . Defined impairment to use (None, Cognitive Impairments, Language Impairments, Physical Impairments, Sensory Impairments, Specific Learning Difficulties, Speech Impairments)
Gender	Varchar, 12	Mandatory	Sex (male , female)

email_address	Varchar, 45	Mandatory	Email (format)
mobile_number	Varchar,12	Mandatory	Mobile number/phone number (eg. 0712345678)
next_kin_region	Varchar, 45	Mandatory	Region living you relative
Nationality	Varchar, 45	Mandatory	Citizenship
next_of_kin_name	Varchar, 145	Mandatory	Full name
next_kin_address	Text	optional	Address (P.O Box)
next_kin_email	Varchar 45	optional	Email
next_kin_phone	Varchar,12	Mandatory	Period in admission circle (March OR september)
next_kin_region	Varchar, 45	Mandatory	Programme level eg 4 for NTA4, 5 for NTA5
next_kin_relationship	Varchar, 15	Mandatory	Relationship between you and next of kin (eg, farther, Mother, uncle etc)

2.4.1 Response Codes

Common HTTP response codes

Status Code	Description
200	OK
201	Created
202	Accepted (Request accepted, and queued for execution)
400	Bad request
401	Authentication failure
403	Forbidden /restricted
404	Resource not found
405	Method Not Allowed
409	Conflict
412	Precondition Failed
413	Request Entity Too Large
452	NBF Violation
453	Signature verification failed'
454	Key cannot be empty
456	Token has invalid number of segments
458	Invalid header encoding
459	Empty algorithm
460	Algorithm not supported
462	Kid empty, unable to lookup correct
463	Expired token
464	OpenSSL unable to sign data

465	OpenSSL unable to verify data
466	Null result with non-null input
467	Wrong credentials provided
468	Unknown JSON error
469	Invalid Parameters
500	Internal Server Error
503	Service Unavailable