BE&OE FOREIGN JOBS API (SPECIFICATION DOCUMENT)

for National Vocational & Technical Training Commission (NAVTTC)

Contents

INTENDED AUDIENCE

This document is intended for users who wish to use **"BE&OE Foreign Jobs API"**. This document is a guide to developers to easily understand requirements to interact with this API systematically.

INTRODUCTION

This service is to share the Foreign Jobs details as available on Bureau's official website *"https://beoe.gov.pk/"* through the "**BE&OE Foreign Jobs API**". The architecture of service has been designed considering security perspectives through the user authentication.

ASSUMPTIONS AND REQUIREMENTS

- This service will be point-to-point connection between BE&OE and End Users.
- Response of API will be in JSON format.
- End Users shall be issued username and password for authentication and data exchange.
- While login, user will be provided with the access token that can be used as "Authorization" headers at time of accessing API.
- "Authorization" and "Accept" headers would be required to get response from API.
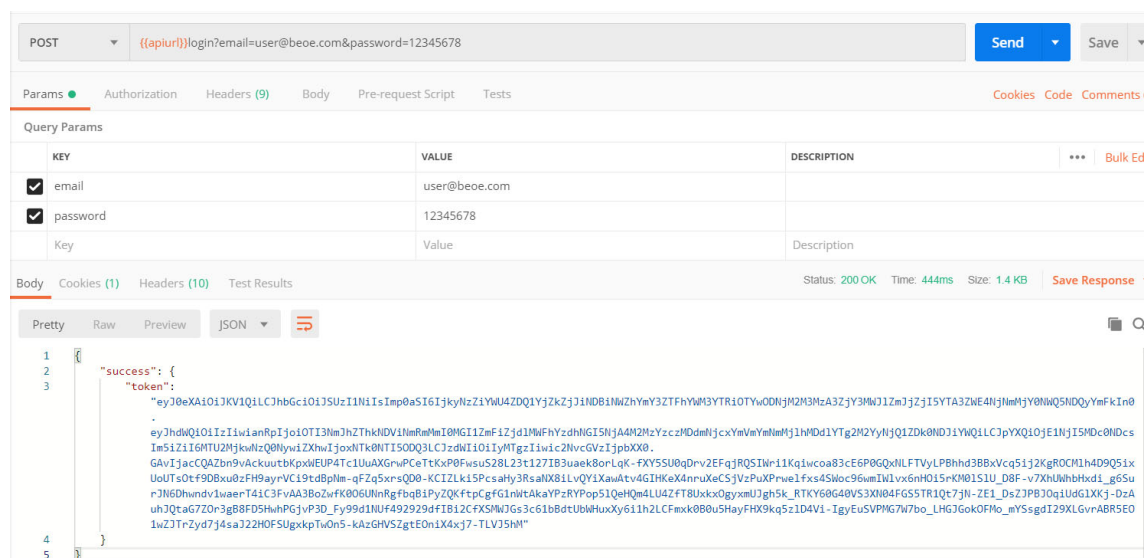
CONSTRAINTS

- End Users will be able to access this API at agreed upon schedule.
- Access Token will expire after agreed upon schedule.

TECHNICAL INTERFACE SPECIFICATION

The Data exchange between BE&OE and End Users will be in JSON format. On every request, API will return available records up to the limit of 25000 records. If records exceed this number, "page" parameter will be used for next iteration. On each request, API will also return available pages and its number.

OPERATIONS

Following methods will allow to get available foreign jobs. Each method will be initiated with request to BE&OE server corresponding to nature of request in JSON format.

1. User Login API

API will require "Username/Email" and "Password" provided to End Users from BE&OE. After successful login, API will return JSON response with success key and access token. Access token will be used as user authentication in "Foreign Jobs API" for security purpose.

NOTE:

- Login service will generate unique "Access Token".
- Token will expire within one hour (agreed upon schedule).
- API will use "POST" method.

1.1 Request Interface

Parameters	Type	Constraints (if any)	Description	Example
email	String	Mandatory	Unique Email issued to service provider by BEOE	user@beoe.com
password	String	Mandatory	Password issued to Service Provider by BEOE	123456

1.2 Response Interface

Description	Keys	Response
Successful Login	Token	eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsImp0aSI6IjkyNzZiYWU4ZDQ1Y
Unsuccessful Login	Error	Unauthorised

2. Foreign Jobs API

This API will require HTTP headers "Authorization" and "Accept". After authentication, API will return JSON response.

NOTE:

- HTTP headers would be required to access this API.
- API will be accessible at agreed upon schedule.
- API will use "GET" method.
- Access token will expire after agreed upon schedule.

2.1 Request Interface

Parameters	Type	Constraints (if any)	Description	Example
Authorization	HTTP Header	Mandatory	Unique access token received after successful login.	Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsImp0aSI6IjkyNzZiYWU4ZDQ1Y
Accept	HTTP Header	Mandatory		application/json
page	Request Parameter	Optional	If total number of records exceeds 25000, page parameter can be used for available next iteration.	foreignjobs?page=2

GET ▼   {{apiurl}}foreignjobs   Send ▼

Params   Authorization   **Headers (9)**   Body   Pre-request Script   Tests   Cookies Code

▼ Headers (2)

	KEY	VALUE	DESCRIPTION	•••	Bulk Edit
☑	Authorization	Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsImp0aSI6IjkyNzZiY...			
☑	Accept	application/json			
	Key	Value	Description		

▶ Temporary Headers (7) ⓘ

Body   Cookies (1)   Headers (11)   Test Results   Status: 200 OK   Time: 4.45s   Size: 928.3 KB   Save

Pretty   Raw   Preview   JSON ▼

```
1  {
2      "current_page": 1,
3  ⊞   "data": [ ⋯
       ],
40606  "first_page_url": "http:\/\/localhost\/beoe.gov.pk\/Website\/public\/api\/foreignjobs?page=1",
40607  "from": 1,
40608  "last_page": 1,
40609  "last_page_url": "http:\/\/localhost\/beoe.gov.pk\/Website\/public\/api\/foreignjobs?page=1",
40610  "next_page_url": null,
40611  "path": "http:\/\/localhost\/beoe.gov.pk\/Website\/public\/api\/foreignjobs",
40612  "per_page": "25000",
40613  "prev_page_url": null,
40614  "to": 303,
40615  "total": 303
40616  }
40617
```

2.2 Response Interface

Keys	Type	Description	Response

data	JSON	If records available API returns records in data key. Otherwise empty object is returned.	"data": [
			    {"id": 147669, ...},
			    {"id": 147670, ...},
			]

total	integer	This keys total shows number of available records.	"total": 303
last_page	integer	This key shows available page numbers.	"last_page": 1
per_page	integer	This key shows per page how many records this API can retrieve.	"per_page": "25000"
current_page	integer	This key show current page.	"current_page": 1

3. HTTP Code Description

Response Code	Response	Response Description
200	Successful.	This response will be sent after Data Sharing.
404	No record found.	This response will be sent when no Foreign Job will be available.
503	Not accessible.	This response will be sent when **"BE&OE Foreign Jobs API"** will be accessed other than agreed upon schedule.
401	Unauthorized.	This response will be set when Authentication will be failed.
400	Unexpected Error/Bad Request	This response will be set when Unexpected error will be occurred.