



**ITC 3081 – ICT Project**

**Department of Information and Communication Technology**

**Faculty of Technology**

**University of Sri Jayewardenepura**



**UniSource**

University driven Open-Source Community

**API Specification**

Group 01

Version	Date	Author	Description
1.0	11-July-2024	UniSource	This document describes in detail all the endpoints, request and response formats, mechanisms for authentication, error handling, and other critical aspects that need to be catered to seamlessly with respect to communication and data exchange within the system.

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# 1. login

## Request

Method	URL
POST	api/v1/auth/login

Type	Params	Values
POST	username	string
POST	password	string

## Response

Status	Response
200	{ "success": true, "data": {...}, "message": "User logged in successfully" }
401	{ "success": false, "data": null, "message": "Incorrect username or password" }
500	{ "success": false, "data": null, "message": "Something went wrong. Please try again later" }

## 2. Register

### Request

Method	URL
POST	api/v1/auth/register

Type	Params	Values
POST	username	string
POST	password	string

### Response

Status	Response
201	<pre>{   "success": true,   "data": {...},   "message": "User Registered in successfully" }</pre>
400	<pre>{   "success": false,   "data": null,   "message": "Required all fields" }</pre>
500	<pre>{   "success": false,   "data": null,   "message": "Something went wrong. Please try again later" }</pre>

### 3. Get Users By Id

#### Request

Method	URL
GET	api/v1/auth/{id}

Type	Params	Values
HEAD	token	string

#### Response

Status	Response
200	{ "success": true, "data": {...}, "message": "User Retrieved in successfully" }
403	{ "success": false, "data": null, "message": "Unauthorized access" }
404	{ "success": false, "data": null, "message": "User not found" }
500	{ "success": false, "data": null, "message": "Something went wrong. Please try again later" }

## 4. Get All Users

### Request

Method	URL
GET	api/v1/auth/

Type	Params	Values
HEAD	token	string

### Response

Status	Response
200	{ "success": true, "data": {...}, "message": "User Retrieved in successfully" }
403	{ "success": false, "data": null, "message": "Unauthorized access" }
404	{ "success": false, "data": null, "message": "Resource not found" }
500	{ "success": false, "data": null, "message": "Something went wrong. Please try again later" }

## 5. Update Username

### Request

Method	URL
PUT	api/v1/auth/

Type	Params	Values
HEAD	token	string
BODY	DTO	Object

### Response

Status	Response
201	{ "success": true, "data": {...}, "message": "User Updated in successfully" }
403	{ "success": false, "data": null, "message": "Unauthorized access" }
500	{ "success": false, "data": null, "message": "Something went wrong. Please try again later" }

## 6. Reset Password

### Request

Method	URL
PUT	api/v1/auth/reset-password

Type	Params	Values
HEAD	token	string
BODY	DTO	object

### Response

Status	Response
201	{ "success": true, "data": {...}, "message": "Password Reset successfully" }
403	{ "success": false, "data": null, "message": "Unauthorized access" }
500	{ "success": false, "data": null, "message": "Something went wrong. Please try again later" }



## 7. Delete User

### Request

Method	URL
DELETE	api/v1/auth/{id}

Type	Params	Values
HEAD	token	string

### Response

Status	Response
200	{ "success": true, "data": {...}, "message": "User delete in successfully" }
403	{ "success": false, "data": null, "message": "Unauthorized access" }
500	{ "success": false, "data": null, "message": "Something went wrong. Please try again later" }

## 8. Get Student Details

### Request

Method	URL
GET	api/v1/student/{id}

Type	Params	Values
HEAD	token	string

### Response

Status	Response
200	{ "success": true, "data": {...}, "message": "Student details retrieved in successfully" }
403	{ "success": false, "data": null, "message": "Unauthorized access" }
500	{ "success": false, "data": null, "message": "Something went wrong. Please try again later" }

## 9. Update Student Description

### Request

Method	URL
PUT	api/v1/student/description

Type	Params	Values
HEAD	token	string
BODY	identityId	int
BODY	description	string

### Response

Status	Response
200	<pre>{   "success": true,   "data": {...},   "message": "Student Description updated in successfully" }</pre>
403	<pre>{   "success": false,   "data": null,   "message": "Unauthorized access" }</pre>
500	<pre>{   "success": false,   "data": null,   "message": "Something went wrong. Please try again later" }</pre>

## 10. Update Student Score

### Request

Method	URL
PUT	api/v1/student/score

Type	Params	Values
HEAD	token	string
BODY	identityId	int
BODY	score	int

### Response

Status	Response
200	<pre>{   "success": true,   "data": {...},   "message": "Student Score updated in successfully" }</pre>
403	<pre>{   "success": false,   "data": null,   "message": "Unauthorized access" }</pre>
500	<pre>{   "success": false,   "data": null,   "message": "Something went wrong. Please try again later" }</pre>

## 11. Update Student Profile Image

### Request

Method	URL
PUT	api/v1/student/profile-image

Type	Params	Values
HEAD	token	string
BODY	identityId	int
BODY	public_id	string
BODY	public_url	string

### Response

Status	Response
200	{ "success": true, "data": {...}, "message": "Student profile image updated in successfully" }
403	{ "success": false, "data": null, "message": "Unauthorized access" }
500	{ "success": false, "data": null, "message": "Something went wrong. Please try again later" }

## 12. Create Student

### Request

Method	URL
POST	api/v1/student/

Type	Params	Values
HEAD	token	string
BODY	identityId	int

### Response

Status	Response
201	<pre>{   "success": true,   "data": {...},   "message": "Student created in successfully" }</pre>
403	<pre>{   "success": false,   "data": null,   "message": "Unauthorized access" }</pre>
500	<pre>{   "success": false,   "data": null,   "message": "Something went wrong. Please try again later" }</pre>

## 13. Update Organization Description

### Request

Method	URL
PUT	api/v1/organization/description

Type	Params	Values
HEAD	token	string
BODY	identityId	int
BODY	description	string

### Response

Status	Response
200	<pre>{   "success": true,   "data": {...},   "message": "organization Description updated in successfully" }</pre>
403	<pre>{   "success": false,   "data": null,   "message": "Unauthorized access" }</pre>
500	<pre>{   "success": false,   "data": null,   "message": "Something went wrong. Please try again later" }</pre>

## 14. Update Organization Profile Image

### Request

Method	URL
PUT	api/v1/organization/profile-image

Type	Params	Values
HEAD	token	string
BODY	identityId	int
BODY	public_id	string
BODY	public_url	string

### Response

Status	Response
200	{ "success": true, "data": {...}, "message": "Organization profile image updated in successfully" }
403	{ "success": false, "data": null, "message": "Unauthorized access" }
500	{ "success": false, "data": null, "message": "Something went wrong. Please try again later" }



## 15. Create Organization

### Request

Method	URL
POST	api/v1/organization

Type	Params	Values
HEAD	token	string
BODY	identityId	int

### Response

Status	Response
201	<pre>{   "success": true,   "data": {...},   "message": "Organization created in successfully" }</pre>
403	<pre>{   "success": false,   "data": null,   "message": "Unauthorized access" }</pre>
500	<pre>{   "success": false,   "data": null,   "message": "Something went wrong. Please try again later" }</pre>

## 16. Create Mentor

### Request

Method	URL
POST	api/v1/mentor

Type	Params	Values
HEAD	token	string
BODY	identityId	int

### Response

Status	Response
201	<pre>{   "success": true,   "data": {...},   "message": "Mentor created in successfully" }</pre>
403	<pre>{   "success": false,   "data": null,   "message": "Unauthorized access" }</pre>
500	<pre>{   "success": false,   "data": null,   "message": "Something went wrong. Please try again later" }</pre>

## 17. Create Project

### Request

Method	URL
POST	api/v1/project

Type	Params	Values
HEAD	token	string
BODY	DTO	Object

### Response

Status	Response
201	{ "success": true, "data": {...}, "message": "Project created in successfully" }
403	{ "success": false, "data": null, "message": "Unauthorized access" }
500	{ "success": false, "data": null, "message": "Something went wrong. Please try again later" }

## 18. Update Project

### Request

Method	URL
PUT	api/v1/project/{id}

Type	Params	Values
HEAD	token	string
BODY	DTO	Object

### Response

Status	Response
201	{ "success": true, "data": {...}, "message": "Project Updated in successfully" }
403	{ "success": false, "data": null, "message": "Unauthorized access" }
500	{ "success": false, "data": null, "message": "Something went wrong. Please try again later" }

## 19. Delete Project

### Request

Method	URL
DELETE	api/v1/project/{id}

Type	Params	Values
HEAD	token	string

### Response

Status	Response
200	{ "success": true, "data": {...}, "message": "Project Deleted in successfully" }
403	{ "success": false, "data": null, "message": "Unauthorized access" }
500	{ "success": false, "data": null, "message": "Something went wrong. Please try again later" }

## 20. Get Projects By Id

### Request

Method	URL
GET	api/v1/project/{id}

Type	Params	Values
HEAD	token	string

### Response

Status	Response
200	{ "success": true, "data": {...}, "message": "Project Retrieved in successfully" }
403	{ "success": false, "data": null, "message": "Unauthorized access" }
404	{ "success": false, "data": null, "message": "Project not found" }
500	{ "success": false, "data": null, "message": "Something went wrong. Please try again later" }

## 21. Get All Project

### Request

Method	URL
GET	api/v1/project/

Type	Params	Values
HEAD	token	string

### Response

Status	Response
200	{ "success": true, "data": {...}, "message": "Projects Retrieved in successfully" }
403	{ "success": false, "data": null, "message": "Unauthorized access" }
404	{ "success": false, "data": null, "message": "Resource not found" }
500	{ "success": false, "data": null, "message": "Something went wrong. Please try again later" }

## 22. Create Admin

### Request

Method	URL
POST	api/v1/admin

Type	Params	Values
HEAD	token	string
BODY	DTO	Object

### Response

Status	Response
201	{ "success": true, "data": {...}, "message": "Admin created in successfully" }
403	{ "success": false, "data": null, "message": "Unauthorized access" }
500	{ "success": false, "data": null, "message": "Something went wrong. Please try again later" }



## 23. Student Verification

### Request

Method	URL
PUT	api/v1/admin/student-verification/{id}

Type	Params	Values
HEAD	token	string
BODY	DTO	Object

### Response

Status	Response
201	{ "success": true, "data": {...}, "message": "Status changed in successfully" }
403	{ "success": false, "data": null, "message": "Unauthorized access" }
500	{ "success": false, "data": null, "message": "Something went wrong. Please try again later" }

## 24. Organization Verification

### Request

Method	URL
PUT	<code>api/v1/admin/organization-verification/{id}</code>

Type	Params	Values
HEAD	token	string
BODY	DTO	Object

### Response

Status	Response
201	<pre>{   "success": true,   "data": {...},   "message": "Status changed in successfully" }</pre>
403	<pre>{   "success": false,   "data": null,   "message": "Unauthorized access" }</pre>
500	<pre>{   "success": false,   "data": null,   "message": "Something went wrong. Please try again later" }</pre>

## 25. Project Approve

### Request

Method	URL
PUT	api/v1/admin/project-verification/{id}

Type	Params	Values
HEAD	token	string
BODY	DTO	Object

### Response

Status	Response
201	{ "success": true, "data": {...}, "message": "Status changed in successfully" }
403	{ "success": false, "data": null, "message": "Unauthorized access" }
500	{ "success": false, "data": null, "message": "Something went wrong. Please try again later" }

## 26. Proposal Submission

### Request

Method	URL
POST	api/v1/proposal

Type	Params	Values
HEAD	token	string
BODY	DTO	Object

### Response

Status	Response
201	{ "success": true, "data": {...}, "message": "Proposal Uploaded in successfully" }
403	{ "success": false, "data": null, "message": "Unauthorized access" }
500	{ "success": false, "data": null, "message": "Something went wrong. Please try again later" }

## 27. Get Proposal By Id

### Request

Method	URL
GET	api/v1/proposal/{id}

Type	Params	Values
HEAD	token	string

### Response

Status	Response
200	{ "success": true, "data": {...}, "message": "Proposal Retrieved in successfully" }
403	{ "success": false, "data": null, "message": "Unauthorized access" }
404	{ "success": false, "data": null, "message": "Proposal not found" }
500	{ "success": false, "data": null, "message": "Something went wrong. Please try again later" }

## 28. Get All Proposal

### Request

Method	URL
GET	api/v1/proposal

Type	Params	Values
HEAD	token	string

### Response

Status	Response
200	{ "success": true, "data": {...}, "message": "Proposals Retrieved in successfully" }
403	{ "success": false, "data": null, "message": "Unauthorized access" }
404	{ "success": false, "data": null, "message": "Resource not found" }
500	{ "success": false, "data": null, "message": "Something went wrong. Please try again later" }

## Conventions

- **Client** - Client application.
- **Status** - HTTP status code of response.
- All the possible responses are listed under 'Responses' for each method. Only one of them is issued per request server.
- All responses are in JSON format.

## Status Codes

All status codes are standard HTTP status codes. The below ones are used in this API.

**2XX** - Success of some kind

**4XX** - Error occurred in client's part

**5XX** - Error occurred in server's part

Status Code	Description
200	OK
201	Created
202	Accepted (Request accepted, and queued for execution)
400	Bad request
401	Authentication failure
403	Forbidden
404	Resource not found
405	Method Not Allowed
500	Internal Server Error
503	Service Unavailable