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**API documentation**

**Introduction**

Welcome to the API documentation for Virtual Classroom application. This API allows users to create and manage virtual classrooms, as well as conduct video conferencing sessions with their students. All requests to the API require authentication via a JWT token.

**Authentication**

All requests to the API require authentication via a JWT token. To obtain a token, send a POST request to /api/auth/login with your email and password in the request body. The response will include a JWT token that can be used for subsequent requests.

**Endpoints**

1. **Login**

| **Method** | **URL** |
| --- | --- |
| **POST** | /api/auth/login |

## **Request**

| {  "email": "example@example.com",  "password": "password" } |
| --- |

## **Response**

Success (200)

| {  "success" : "verification mail sent to email" } |
| --- |

Error (501)

| {  "error": "Email already in use" } |
| --- |

1. **Sign up**

Register a new user account.

| **Method** | **URL** |
| --- | --- |
| **POST** | /api/auth/register |

## **Request**

| {  "name": "adam",  "email": "example@example.com",  "password": "password" } |
| --- |

## **Response**

Success (200)

| {  "success" : "verification mail sent to email" } |
| --- |

Error (501)

| {  "error": "Username and password invalid" } |
| --- |

1. **App features**

Retrieve the list of features of the app

| **Method** | **URL** |
| --- | --- |
| **GET** | /api/app/features |

| {  "features" : [{  "icon" : "image/icon url",  "title" : "Ease to use",  "description" : "This app is very easy to use"  },{  "icon" : "image/icon url",  "title" : "Ease to use",  "description" : "This app is very easy to use"  }  ] } |
| --- |

1. **Classroom**

| **Create class** | **Method** | **URL** |
| --- | --- | --- |
| **POST** | /api/classes |

**Request**

| {  "class-name": "Computer science",  "subject": "Computer science",  "description": "Introduction to English literature",  "image" : "string" } |
| --- |

| **List classes** | **Method** | **URL** |
| --- | --- | --- |
| **GET** | /api/classes/ |

**Response**

| {  "classrooms" : [{  "\_id" : "12345"  "class-name" : "Computer science",  "description" : "This class all about computer science",  "Teacher" : {  "\_id": {  "$oid": "64226e4aa508fd7c5539f3a0"  },  "name": "jisha",  "image" : "image url"  },  "background" : "image url"  }] } |
| --- |

| **Get class** | **Method** | **URL** |
| --- | --- | --- |
| **GET** | /api/classes/{classId} |

**Response**

| {  "\_id" : "12345"  "class-name" : "Computer science",  "description" : "This class all about computer science",  "Teacher" : {  "\_id": {  "$oid": "64226e4aa508fd7c5539f3a0"  },  "name": "jisha",  "image" : "image url"  },  "background" : "image url"  } |
| --- |

| **Update class** | **Method** | **URL** |
| --- | --- | --- |
| **PATCH** | /api/classes/{classId} |

| {  "success" : "class updated successfully" } |
| --- |

1. **Classroom announcements**

| **Create** | **Method** | **URL** |
| --- | --- | --- |
| **POST** | /api/classes/{classId}/announcement |

| {  "type" : "announcement",  "title" : "Assignments",  "message" : "New assignment posted in Math class",  "icon" : "play-button", } |
| --- |

| **Retrieve all** | **Method** | **URL** |
| --- | --- | --- |
| **GET** | /api/classes/announcement |

| {  "notifications": [  {  "id": "123",  "type": "announcement",  "message": "New assignment posted in Math class",  "timestamp": "2023-05-15T12:34:56Z",  "classroomId": "456",  "classroomName": "Math",  "read": false  },  {  "id": "456",  "type": "linked-announcement",  "message": "Class started! what are you waiting for",  "timestamp": "2023-05-14T09:00:00Z",  "classroomId": "789",  "classroomName": "English",  "url": "api/vc\_meet/ifhs-dfhd",  "read": true  },  ...  ] } |
| --- |

| **Retrieve** | **Method** | **URL** |
| --- | --- | --- |
| **GET** | /api/classes/{classId}/announcement |

| {  "notifications": [  {  "id": "123",  "type": "announcement",  "message": "New assignment posted in Math class",  "timestamp": "2023-05-15T12:34:56Z",  "classroomId": "456",  "classroomName": "Math",  "read": false  },  {  "id": "456",  "type": "linked-announcement",  "message": "Class started! what are you waiting for",  "timestamp": "2023-05-14T09:00:00Z",  "classroomId": "789",  "classroomName": "Math",  "url": "api/vc\_meet/ifhs-dfhd",  "read": true  },  ...  ] } |
| --- |

| **Delete** | **Method** | **URL** |
| --- | --- | --- |
| **DELETE** | /api/classes/{classId}/  announcement/{announcementId} |

| {  "success" : "class announcement deleted successfully" } |
| --- |

| **Update** | **Method** | **URL** |
| --- | --- | --- |
| **PATCH** | /api/classes/{classId}/  announcement/{announcementId} |

| {  "success" : "class announcement updated successfully" } |
| --- |

1. **Class assignments**

| **create** | **Method** | **URL** |
| --- | --- | --- |
| **POST** | /api/classes/{classId}/assignments |

| {  title : 'Array question',  description : 'find the length of an array',  dead\_line : '05-07-2023',  max\_score : 50 } |
| --- |

| **Retrieve All** | **Method** | **URL** |
| --- | --- | --- |
| **GET** | /api/classes/{classId}/assignments |

| [{  \_id : '1415',  class\_id : '8754',  title : 'Array question',  description : 'find the length of an array',  deadline : '05-07-2023',  createdBy : '9831',  max\_score : 50 }, {  \_id : '1852',  class\_id : '8754',  title : 'String question',  description : 'find the length of an string',  deadline : '05-07-2023',  createdBy : '9831',  max\_score : 50 }] |
| --- |

| **Retrieve single** | **Method** | **URL** |
| --- | --- | --- |
| **GET** | /api/classes/{classId}/  assignments/{assignmentId}} |

| {  \_id : '1415',  class\_id : '8754',  title : 'Array question',  description : 'find the length of an array',  deadline : '05-07-2023',  createdBy : '9831',  max\_score : 50 } |
| --- |

| **submission** | **Method** | **URL** |
| --- | --- | --- |
| **POST** | /api/classes/{classId}/  assignments/{assignmentId}} |

| {  assignmentId : '263',  answer : 'const length = arr.length',  file : "url" } |
| --- |

| **Update** | **Method** | **URL** |
| --- | --- | --- |
| **PATCH** | /api/classes/{classId}/  assignments/{assignmentId}} |

| {  assignmentId : '263',  answer : 'const length = arr.length',  file : "url".  Score : 45  } |
| --- |

1. **Discussion on Classroom**

Retrieve the list of discussion on a class

| **Method** | **URL** |
| --- | --- |
| **GET** | /api/{classId}/discussions |

| [{  class\_id : '263',  sender\_id : '64',  message : "hi",  file : "url",  createdAt : '10-05-2023',  updatedAt : '11-05-2023' },{  class\_id : '263',  sender\_id : '5545',  message : "hi",  file : "url",  createdAt : '10-05-2023',  updatedAt : '11-05-2023' }] |
| --- |

| **Method** | **URL** |
| --- | --- |
| **POST** | /api/{classId}/discussions |

| {  class\_id : '263',  sender\_id : '64',  message : "hi",  file : "url", } |
| --- |

1. **Messaged user and groups**

| **Method** | **URL** |
| --- | --- |
| **GET** | /api/user/{userId}/messages |

| **Method** | **URL** |
| --- | --- |
| **GET** | /api/messages/{userId}/groups |

1. **Message private**

| **Method** | **URL** |
| --- | --- |
| **GET** | /api/messages/private/:userId |

| [{  id: "789",  sender\_id: "741",  receiver\_id: "258",  message: "message\_content",  timestamp: "2022-06-01T12:00:00Z" },{  id: "123",  sender\_id: "258",  receiver\_id: "741",  message: "message\_content",  timestamp: "2022-06-01T12:00:00Z" }] |
| --- |

| **Method** | **URL** |
| --- | --- |
| **POST** | /api/messages/private/:userId |

| {  sender\_id: "741",  receiver\_id: "258",  message: "message\_content", } |
| --- |

1. **Message Group**

| **Method** | **URL** |
| --- | --- |
| **GET** | /api/messages/group/:groupId |

| [{  id: "789",  sender\_id: "741",  group\_id: "258",  message: "message\_content",  timestamp: "2022-06-01T12:00:00Z" },{  id: "123",  sender\_id: "258",  group\_id: "741",  message: "message\_content",  timestamp: "2022-06-01T12:00:00Z" }] |
| --- |

| **Method** | **URL** |
| --- | --- |
| **POST** | /api/messages/group/:groupId |

| **{  sender\_id: "741",  message: "message\_content", }** |
| --- |

1. **Attendance**

| **Method** | **URL** |
| --- | --- |
| **GET** | /api/classes/{classId}/attendance?date\_from=<date>&date\_to=<date> |

| **Method** | **URL** |
| --- | --- |
| **POST** | /api/classes/{classId}/attendance |

| **Method** | **URL** |
| --- | --- |
| **PATCH** | /api/classes/{classId}/attendance/{attendance\_id} |

1. **Profile**

| **Method** | **URL** |
| --- | --- |
| **GET** | /api/account |

| **Method** | **URL** |
| --- | --- |
| **PATCH** | /api/account |

1. **Subscription**

| **Method** | **URL** |
| --- | --- |
| **POST** | /api/account/subscription |

1. **Ul icons**

| **Method** | **URL** |
| --- | --- |
| **POST** | /api/ui/icons |

| **Method** | **URL** |
| --- | --- |
| **GET** | /api/ui/icons |

| **Method** | **URL** |
| --- | --- |
| **DELETE** | /api/ui/icons/{icon\_id} |

1. **Carousel**

| **Method** | **URL** |
| --- | --- |
| **GET** | /api/ui/carousel |

| **Method** | **URL** |
| --- | --- |
| **POST** | /api/ui/carousel |

| **Method** | **URL** |
| --- | --- |
| **DELETE** | /api/ui/carousel/{carousel\_d} |