

This API is used to store and manage attendance for several courses.
Usage of this API requires the following prerequisites:

1. The user should be registered to this API using a unique email via the **/api_signup** endpoint. This will generate a one-time token unique to this user, which has to be used in any future calls to this API.
2. Any courses the user wishes to track have to be registered via the **/add_course** endpoint. These courses are distinguished by their Course ID and Batch.

/api_signup

METHOD: POST

This route accepts only a FormData object containing the following fields:

Field	Type	Use	Required
name	String	Name of the user	Yes
email	String	Email of the user. Should be unique.	Yes
password	String	Password for the account	Yes
api	String	“1” for API usage.	Yes

RETURNS: a JSON object with the following details:

Field	Type	Use	Status Code
token	String	Only when the operation is successful. A unique 8-digit token assigned to the user, to be used while making API requests.	200
error	String	Only when the operation is unsuccessful. A message containing the cause of the error.	400

/add_course

METHOD: POST

This route accepts only a CSV/XLSX file with the name “file” and a FormData object containing the following fields:

Field	Type	Use	Required
course_id	String	Course ID of the course to be inserted.	Yes
course_name	String	Course Name of the course to be inserted.	Yes
batch	Number	Batch (Year) of the course to be inserted.	Yes
api	String	“1” for API usage.	Yes
token	String	Token assigned to the user.	Yes if api is “1”

FILE FORMAT: Two headings (Roll Number, Name) with the relevant details in the columns.

RETURNS: a JSON object with the following details:

Field	Type	Use	Status Code
course	Dict	Only when the operation is successful. A dictionary containing all details of the course inserted. The fields are described below.	200
error	String	Only when the operation is unsuccessful. A message containing the cause of the error.	400

FIELDS IN “course”:

Field	Type	Use
course_id	String	Course ID of the course inserted.
course_name	String	Course Name of the course inserted.
batch	Number	Batch (Year) of the course inserted.
dates	Array	Track of dates for which attendance has been recorded.
students	Dict	Each field in this object:

		has a key of the student roll number and the value is another dict containing the key as a date in “dates” and the value as True/False.
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/delete_course

METHOD: POST

This route accepts only a FormData object containing the following fields:

Field	Type	Use	Required
course_id	String	Course ID of the course to be deleted.	Yes
batch	Number	Batch (Year) of the course to be deleted.	Yes
api	String	“1” for API usage.	Yes
token	String	Token assigned to the user.	Yes if api is “1”

RETURNS: a JSON object with the following details:

Field	Type	Use	Status Code
message	String	Only when the operation is successful. Just a congratulatory message for using this API correctly.	200
error	String	Only when the operation is unsuccessful. A message containing the cause of the error.	400

/download_attendance

METHOD: POST

This route accepts only a FormData object containing the following fields:

Field	Type	Use	Required
down-course	String	Formatted as: course_id-batch Where course_id is the CourseID and batch is the Batch(Year) of the course whose details are needed.	Yes
report_type	String	“1” for the complete report “0” for the defaulter list	Yes
report_format	String	“1” for an XLSX file “0” for a CSV file	Yes

RETURNS: a file when successful and a JSON object with the following details if unsuccessful:

Field	Type	Use	Status Code
error	String	A message containing the cause of the error.	400

/upload_attendance

METHOD: POST

This route accepts only a FormData object containing the following fields:

Field	Type	Use	Required
course_id	String	Course ID of the course to be uploaded for	Yes
batch	Number	Batch(Year) of the course to be uploaded for	Yes
input_mode	String	“0” for Google Form, “1” for MS Teams	Yes
end_time	DateTime	Meeting end date & time	Yes if end_time is “1”
threshold	DateTime	Students have to be active in the meeting for this many seconds to be counted for that date.	Yes if end_time is “1”
date	Date	Meeting date	Yes
flags	List	Comma separated roll numbers for which attendance will not be tracked for this date	No
api	String	“1” for API usage.	Yes
token	String	Token assigned to the user.	Yes if api is “1”

RETURNS: a JSON object with the following details:

Field	Type	Use	Status Code
message	String	Only when the operation is successful. A surprise for using the API correctly.	200
error	String	Only when the operation is unsuccessful. A message containing the cause of the error.	400

/get_all_courses

METHOD: POST

This route accepts only a JSON object containing the following fields:

Field	Type	Use	Required
api	String	“1” for API usage	Yes
token	String	Token assigned to the user.	Yes if api is “1”

RETURNS: a JSON object with the following details:

Field	Type	Use	Status Code
courses	List	Only when the operation is successful. A list of courses the user is registered for. The contents of each course are described below.	200
error	String	Only when the operation is unsuccessful. A message containing the cause of the error.	400

FIELDS IN “course”:

Field	Type	Use
course_id	String	Course ID of the course inserted.
course_name	String	Course Name of the course inserted.
batch	Number	Batch (Year) of the course inserted.
dates	Array	Track of dates for which attendance has been recorded.
students	Dict	Each field in this object: has a key of the student roll number and the value is another dict containing the key as a date in “dates” and the value as True/False.