

# API

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# I- Authentication Process

## 1- User Signup

**URL:** /auth/signup

**HTTP Method:** POST

This endpoint allows users to register for your application.

### Body:

- **email** (string, required): The user's email address.
- **first\_name** (string, required): The user's first name.
- **last\_name** (string, required): The user's last name.
- **password** (string, required): The user's password.
- **profile\_picture** (file, optional): The user's profile picture (image file).
- **country** (string, optional): The user's country of residence.
- **instagram** (string, optional): The user's Instagram username (without the "@" symbol).
- **facebook** (string, optional): The user's Facebook username (without the "@" symbol).
- **school** (string, optional): The user's school name.
- **tiktok** (string, optional): The user's TikTok username (without the "@" symbol).
- **level\_id** (integer, required): The ID of the user's dance skill level.
- **dances** (list of integers, required): A list of IDs representing the dance styles the user practices.
- **roles** (list of integers, required): A list of IDs representing the user's roles within the application (e.g., student, instructor).

### Response:

Upon successful registration, the API will return a JSON object with the following structure:

JSON

```
{  
  "message": "Thanks for signing up, a verification code has been  
sent to {email}",  
  "access_token": "<access_token>"
```

```
}
```

**message** (string): A success message indicating a verification code has been sent to the user's email.

- **access\_token** (string): A JSON Web Token (JWT) for authentication in subsequent requests.

### Error Codes:

The API may return different error codes depending on the validation or registration failure. Specific error messages will be included in the response body.

- **400 Bad Request:**
  - Password is less than 6 characters long.
  - Missing required fields in the request body.
  - Invalid JSON format for dances or roles.
- **409 Conflict:** User with the provided email already exists.

## 2- User Verification

**URL:** /auth/verify

**HTTP Method:** POST

This endpoint allows users to verify their email address or reset their password, depending on the verification method used during signup.

### Authentication:

This endpoint requires a valid JWT (JSON Web Token) in the Authorization header. You can obtain a JWT upon successful user signup and reset password.

### Body:

- **verification\_code** (string, required): The verification code sent to the user's email during signup or password reset request.

### Response:

The response will be a JSON object with the following structure depending on the verification outcome:

#### Successful Verification:

JSON

```
{  
  "message": "Email verified successfully" (for verification method  
'verification')  
  
  "message": "Password reset successful, Please Login" (for method  
'reset_password')  
}
```

#### Error Codes:

- **400 Bad Request:** Verification failed or expired. (for method 'reset\_password' if new\_password is missing from JWT)
- **404 Not Found:** User not found with the email address associated with the JWT.
- **401 Unauthorized:** Invalid or missing JWT in the Authorization header.

### 3- Password Reset Request

**URL:** /auth/reset\_password

**HTTP Method:** POST

"This endpoint allows users to initiate a password reset process by requesting a verification code that will be sent to their email address."

#### Body:

- **email** (string, required): The user's email address associated with the account.
- **new\_password** (string, required): The user's desired new password (included in the request for validation purposes, but not stored at this stage).
- **confirm\_new\_password** (string, required): A confirmation of the user's desired new password.

### Response:

Upon successful validation and code generation, the API will return a JSON object with the following structure:

JSON

```
{
  "message": "Verification code sent to your email",
  "access_token": "<access_token>"
}
```

- **message** (string): A success message indicating a verification code has been sent to the user's email.
- **access\_token** (string): A JSON Web Token (JWT) for use in the subsequent verification step (/auth/verify). This JWT contains the user's email, verification code, new password (for validation during verification), expiration time, and method (reset\_password).

### Error Codes:

- **400 Bad Request:** Passwords do not match in the request body.
- **404 Not Found:** User with the provided email address was not found.

## 4- User Login

**URL:** /auth/login

**HTTP Method:** POST

This endpoint allows users to log in to your application.

### Body:

- **email** (string, required): The user's email address.
- **password** (string, required): The user's password.

### Response:

The response will be a JSON object with the structure depending on the login outcome:

#### Successful Login (Verified and Active User):

JSON

```
{
  "message": "Login successful, select your role", (or "Login
successful, please add a profile picture")
  "access_token": "<access_token>"
}
```

- **message** (string): A success message indicating login was successful.
  - The specific message may vary depending on whether the user has a profile picture or not.
- **access\_token** (string): A JSON Web Token (JWT) for use in subsequent authenticated requests. This JWT includes user data like ID, names, verification status, and blocked status.

#### Error Codes:

- **401 Unauthorized:**
  - Invalid email or password combination.
  - User is not verified and requires verification before proceeding.
  - User account is blocked.

#### Response (Unverified User):

JSON

```
{
  "message": "User not verified. A verification code is sent to your
email {email}",
  "access_token": "<access_token>"
}
```

- **message** (string): A message indicating the user is not verified and a verification code has been sent.
- **access\_token** (string): A JWT containing verification data (code, expiration time) to be used in the verification process (/auth/verify).

## 5- Get User Roles

**URL:** /user/roles

**HTTP Method:** GET

This endpoint allows authorized and verified users to retrieve their associated roles within the application.

### Authentication:

This endpoint requires a valid JWT (JSON Web Token) in the Authorization header. You can obtain a JWT upon successful user login.

### Response:

The response will be a JSON object with the structure depending on the number of user roles:

#### One User Role:

JSON

```
{  
  "message": "Go to role account",  
  "link": "<role_slug>/<user_slug>", (link to user's role-specific  
account)  
  "token": "<new_access_token>"  
}
```

- **message** (string): A message indicating the user has one role and a link is provided to access their role-specific account.
- **link** (string): A generated link constructed by combining the user's role slug and user slug for their role-specific account. (e.g., "instructor/john-doe")
- **token** (string): A new JWT containing the user data with the retrieved role name included. This token can be used for subsequent requests within the role-specific account.

#### Multiple User Roles:

JSON

```
{"roles": [  
  {"role_id": 1, "role_name": "Student"},  
  ...  
]}
```

```
    {"role_id": 2, "role_name": "Instructor"}
  ]}
```

- **roles** (list of objects): A list of objects containing information for each user role:
  - **role\_id** (integer): The ID of the user role.
  - **role\_name** (string): The name of the user role.

#### Error Codes:

- **401 Unauthorized:**
  - Invalid or missing JWT in the Authorization header.
  - User is not verified.
- **404 Not Found:**
  - User not found with the ID extracted from the JWT.
  - No roles are associated with the user.

## 6- Select User Role

**URL:** /user/select-role

**HTTP Method:** POST

This endpoint allows users with multiple roles to select their preferred role and obtain a new JWT containing the selected role information.

#### Authentication:

This endpoint requires a valid JWT (JSON Web Token) in the Authorization header. You can obtain a JWT upon successful user login.

#### Body:

- **role\_id** (integer, required): The ID of the role the user wants to select.

#### Response:

The response will be a JSON object with the structure:

```
JSON
{
```



```
"message": "Go to role account",
"link": "<role_slug>/<user_slug>", (link to user's role-specific
account)
"token": "<new_access_token>"
}
```

- **message** (string): A message indicating the user selection was successful and a link is provided to access their role-specific account.
- **link** (string): A generated link constructed by combining the user's selected role slug and user slug for their role-specific account. (e.g., "instructor/john-doe")
- **token** (string): A new JWT containing the user data with the selected role name included. This token can be used for subsequent requests within the role-specific account.

#### Error Codes:

- **401 Unauthorized:**
  - Invalid or missing JWT in the Authorization header.
  - User is not verified.
- **404 Not Found:**
  - User not found with the ID extracted from the JWT.
  - No roles are associated with the user.
  - Selected role ID is not found among the user's roles.

## II - User Process (Competitor)

### 1- User Profile

#### a- Get User Profile

**URL:** /<role>/<slug>

**HTTP Method:** GET

This endpoint allows users to retrieve the public profile information of another user based on their role and user slug (unique identifier).

**Path Parameters:**

- **role** (string, required): The user's role (e.g., "student", "instructor").
- **slug** (string, required): The user's unique slug identifier.

### Response:

Upon successful retrieval, the API will return a JSON object containing the user's profile data:

JSON

```
{
  "user_profile": {
    "user_firstname": "<first name>",
    "user_lastname": "<last name>",
    "user_email": "<email address>",
    "user_country": "<country>", (optional)
    "user_instagram": "<instagram username>", (optional)
    "user_facebook": "<facebook username>", (optional)
    "user_tiktok": "<tiktok username>", (optional)
    "user_school": "<school name>", (optional)
    "user_profile_picture": "<path to profile picture>", (optional)
    "level": "<user's dance skill level name>", (optional)
    "user_dances": ["Dance 1", "Dance 2", ...], (list of user's
dance styles)
    "user_roles": ["Role 1", "Role 2", ...], (list of user's roles)
    "first_place": <number of first place achievements>, (integer)
    "second_place": <number of second place achievements>, (integer)
    "third_place": <number of third place achievements>, (integer)
    "current_points": <user's current league points>, (integer)
    "evolution_points": <difference between current and previous
points>, (integer)
  }
}
```

### Error Codes:

- **404 Not Found:**
  - User with the provided slug was not found.
  - User was found but does not have the specified role (case-insensitive matching).

### b- Update User Information

**URL:** /upload\_user\_information

**HTTP Method:** PUT

This endpoint allows authorized and verified users to update their profile information.

#### **Authentication:**

This endpoint requires a valid JWT (JSON Web Token) in the Authorization header. You can obtain a JWT upon successful user login.

#### **Body:**

- **first\_name** (string): The user's first name.
- **last\_name** (string): The user's last name.
- **country** (string): The user's country of residence.
- **level\_id** (integer): The ID of the user's dance skill level (refer to dance level data model).
- **instagram** (string): The username for the user's Instagram profile.
- **facebook** (string): The username for the user's Facebook profile.
- **tiktok** (string): The username for the user's TikTok profile.
- **dances** (string, JSON list): An array of dance IDs representing the user's dance styles (refer to dance data model).

#### **Response:**

Upon successful update, the API will return a JSON object with the following structure:

JSON

```
{  
  "message": "User information updated successfully",  
  "link": "/<new_user_slug>" (link to the user's updated profile)  
}
```

- **message** (string): A confirmation message indicating the user information was successfully updated.
- **link** (string): A link to the user's profile page, reflecting any updates to the user's slug (unique identifier).

#### **Error Code:**

- **404 Not Found:** User not found with the ID extracted from the JWT.

#### Logic and Security Considerations:

- The implementation prioritizes updating only the fields with provided values in the request body, to avoid accidentally overwriting existing data in case a checkbox is left unchecked on the front-end.
- However, commented-out code snippets show an alternative approach where each field is updated only if a value is provided. This approach might be preferable depending on your specific requirements.
- If the user's first name or last name is updated, a new unique slug is generated to maintain uniqueness within user profile URLs.

#### c- Upload Profile Picture

**URL:** /upload\_profile\_picture

**HTTP Methods:** POST, PUT

This endpoint allows authorized and verified users to upload a profile picture.

#### Authentication:

This endpoint requires a valid JWT (JSON Web Token) in the Authorization header. You can obtain a JWT upon successful user login.

#### Body:

- **profile\_picture** (file, required): The user's profile picture image file. Supported image formats likely depend on your backend configuration (e.g., JPEG, PNG).

#### Response:

Upon successful upload, the API will return a JSON object with the following structure:

```
JSON
{
```

```
"message": "Profile picture updated successfully",  
"file_path": "<path to the uploaded profile picture>"  
}
```

- **message** (string): A confirmation message indicating the profile picture was successfully uploaded.
- **file\_path** (string): The path (relative or absolute depending on your implementation) where the uploaded profile picture is stored.

#### Error Codes:

- **400 Bad Request:** No profile picture was included in the request.
- **404 Not Found:** User not found with the ID extracted from the JWT.

## 2- Pictures

### a- Get User Pictures

**URL:** /user/<string:slug>/pictures

**HTTP Method:** GET

This endpoint allows retrieving all the pictures associated with a user's profile.

#### Path Parameter:

- **slug** (string, required): The user's unique slug identifier.

#### Response:

Upon successful retrieval, the API will return a JSON object with the following structure:

JSON

```
{  
  "user_pictures": [  
    {"id": 1, "picture_path": "<path/to/picture1.jpg>"},  
    {"id": 2, "picture_path": "<path/to/picture2.jpg>"},  
    ...  
  ]  
}
```

- **user\_pictures** (list): A list of objects containing information about the user's pictures:
  - **id** (integer): The ID of the picture in the database.
  - **picture\_path** (string): The path (relative or absolute depending on your implementation) where the picture is stored.

#### **Error Code:**

- **404 Not Found:** User with the provided slug was not found.

#### **Important Note:**

- This endpoint retrieves potentially many pictures. Be mindful of performance implications on the server-side and potential bandwidth usage on the client-side, especially for mobile clients.
- Consider implementing pagination mechanisms to retrieve pictures in smaller chunks if you expect a large number of pictures per user.

#### b- Upload User Picture

**URL:** /upload\_user\_picture

**HTTP Method:** POST

"This endpoint allows authorized and verified users to upload a picture associated with their profile but not specifically designated as their profile picture."

#### **Authentication:**

This endpoint requires a valid JWT (JSON Web Token) in the Authorization header. You can obtain a JWT upon successful user login

#### **Body:**

The request body should be a multipart form data encoded payload containing a single file field:

- **picture** (file, required): The user's picture to upload. Supported image formats likely depend on your backend configuration (e.g., JPEG, PNG).

#### Response:

Upon successful upload, the API will return a JSON object with the following structure:

JSON

```
{
  "message": "Picture uploaded successfully",
  "filename": "<filename of the uploaded picture>"
}
```

- **message** (string): A confirmation message indicating the picture was successfully uploaded.
- **filename** (string): The filename of the uploaded picture.

#### Error Codes:

- **400 Bad Request:**
  - No picture was included in the request ('picture' not in request.files).
  - An empty file was selected (picture\_file.filename == '').

#### c- Delete User Picture

**URL:** /delete\_user\_picture/<string:filename>

**HTTP Method:** DELETE

This endpoint allows authorized and verified users to delete pictures associated with their profile.

#### Path Parameter:

- **filename** (string, required): The filename of the picture to delete.

#### Authentication:

This endpoint requires a valid JWT (JSON Web Token) in the Authorization header. You can obtain a JWT upon successful user login.

#### Response:

Upon successful deletion:

- **200 OK:** A JSON object with a message indicating success.

#### Error Codes:

- **400 Bad Request:** The request might be invalid due to malformed data. This is not implemented in the provided code but could be added for robustness.
- **404 Not Found:**
  - The picture filename was not found in the user's associated storage folder.
  - The picture record was not found in the database.
- **500 Internal Server Error:**
  - An error occurred while trying to delete the picture file from storage.
  - An error occurred while trying to delete the picture record from the database.

### 3- Videos

#### a- Get User Videos

**URL:** /user/<string:slug>/videos

**HTTP Method:** GET

This endpoint allows retrieving all the videos associated with a user's profile.

#### Path Parameter:

- **slug** (string, required): The user's unique slug identifier.

#### Response:

Upon successful retrieval, the API will return a JSON object with the structure:

JSON

```
{
  "user_videos": [
    {"id": 1, "video_path": "<path/to/video1.mp4>"},
    {"id": 2, "video_path": "<path/to/video2.mp4>"},
    ...
  ]
}
```



```
}
```

- **user\_videos** (list): A list of objects containing information about the user's videos:
  - **id** (integer): The ID of the video in the database.
  - **video\_path** (string): The path (relative or absolute depending on your implementation) where the video is stored.

#### Error Code:

- **404 Not Found:** User with the provided slug was not found.

#### b- Upload User Video

**URL:** /upload\_user\_video

**HTTP Method:** POST

This endpoint allows authorized and verified users to upload a video associated with their profile.

#### Authentication:

This endpoint requires a valid JWT (JSON Web Token) in the Authorization header. You can obtain a JWT upon successful user login.

#### Body:

The request body should be a multipart form data encoded payload containing a single file field:

- **video** (file, required): The user's video to upload. Supported video formats likely depend on your backend configuration (e.g., MP4). Consider security implications of allowing arbitrary file uploads (e.g., potential for malicious file types).

#### Response:

Upon successful upload, the API will return a JSON object with the following structure:

JSON

```
{
  "message": "Video uploaded successfully",
  "filename": "<filename of the uploaded video>"
}
```

- **message** (string): A confirmation message indicating the video was successfully uploaded.
- **filename** (string): The filename of the uploaded video.

#### Error Codes:

- **400 Bad Request:**
  - No video was included in the request ('video' not in request.files).
  - An empty file was selected (video\_file.filename == '').

#### c- Delete User Video

**URL:** /delete\_user\_video/<string:filename>

**HTTP Method:** DELETE

This endpoint allows authorized and verified users to delete videos associated with their profile.

#### Path Parameter:

- **filename** (string, required): The filename of the video to delete.

#### Authentication:

This endpoint requires a valid JWT (JSON Web Token) in the Authorization header. You can obtain a JWT upon successful user login.

#### Response:

Upon successful deletion:

- **200 OK:** A JSON object with a message indicating success.

#### Error Codes:

- **400 Bad Request:** The request might be invalid due to malformed data. This is not implemented in the provided code but could be added for robustness.
- **404 Not Found:**
  - The video filename was not found in the user's associated storage folder.
  - The video record was not found in the database.
- **500 Internal Server Error:**
  - An error occurred while trying to delete the video file from storage.
  - An error occurred while trying to delete the video record from the database.

## 4- Teams

a- Get user Team

b- Create Competitor Team

c- Delete User Team