

API Documentation

Introduction

This document provides detailed documentation of the RESTful API used in the backend of the Brain Boosting Game Web App. This API enables user registration, authentication, password recovery, view play history and account deletion. The server is built using Node.js and Express and communicates with a MySQL database. Frontend interaction is handled via JavaScript and REST calls.

Base URL

<http://localhost:3000>

1. User Registration

Method: POST

Endpoint: /register

Registers a new user with a unique username and matching passwords.

Request Body:

```
{'username': 'john123', 'password': 'mypassword', 'confirmpassword': 'mypassword'}
```

Success Response:

```
{'success': True, 'message': 'User successfully registered!'}
```

Error Responses:

```
{'success': False, 'message': 'All fields are required.'}
```

```
{'success': False, 'message': 'Passwords do not match.'}
```

```
{'success': False, 'message': 'Username already exists.'}
```

2. User Login

Method: POST

Endpoint: /login

Authenticates a user by checking username and password.

Request Body:

```
{'username': 'john123', 'password': 'mypassword'}
```

Success Response:

```
{'success': True, 'user': {'id': 1, 'username': 'john123'}}
```

Error Responses:

```
{'success': False, 'message': 'Missing credentials'}
```

```
{'success': False, 'message': 'Invalid username or password'}
```

3. Check Username (Forgot Password)

Method: POST

Endpoint: /check-username

Checks if a username exists before allowing password reset.

Request Body:

```
{'username': 'john123'}
```

Success Response:

```
{'success': True}
```

Error Responses:

```
{'success': False, 'message': 'Username not found'}
```

4. Reset Password

Method: POST

Endpoint: /reset-password

Updates a user's password after username is verified.

Request Body:

```
{'username': 'john123', 'newPassword': 'newsecurepassword'}
```

Success Response:

```
{'success': True, 'message': 'Password updated successfully'}
```

Error Responses:

```
{'success': False, 'message': 'User not found'}
```

```
{'success': False, 'message': 'Failed to update password'}
```

5. Delete Account

Method: DELETE

Endpoint: /delete-account

Deletes the account of a logged-in user based on the provided username.

Request Body:

```
{'username': 'john123'}
```

Success Response:

```
{'success': True, 'message': 'Account deleted successfully.'}
```

Error Responses:

```
{'success': False, 'message': 'Username is required.'}
```

```
{'success': False, 'message': 'User not found.'}
```