FarmClash - API Blueprint for Web-based Idle Game

Camille De Vuyst, Joren Van der Sande, Thomas De Volder, Faisal Ettarrahi, Ferhat Van Herck, Siebe Mees

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1 Introduction

This document outlines the API endpoints for a web-based idle game. Each endpoint requires user authentication and certain routes are restricted to admin users only.

1.1 Base URL

The base URL for all API requests is https://team3.ua-ppdb.me/api/.

2 Users

• Endpoint: /users

- Description: Get a look at all the users.
- Access: Requires admin user privileges.
- Response: A JSON array of user objects, each containing:

3 Maps

• Endpoint: /maps

• Method: GET

• Description: Get a look at all the maps.

• Access: Requires admin user privileges.

• Response: A JSON array of map objects, each containing:

```
[
    "map_id": 1,
    "username_owner": "ownerUsername",
    "width": 100,
    "height": 100,
    "created_at": "Tue, 26 Mar 2024 13:55:30 GMT"
},
    {
        "map_id": 2,
        "username_owner": "anotherOwnerUsername",
        "width": 150,
        "height": 150,
        "created_at": "Wed, 27 Mar 2024 14:00:00 GMT"
}
// Additional map objects as needed
]
```

4 Resources

4.1 General Resource Information

• Endpoint: /resources

- Description: Retrieves a comprehensive list of resources across all users. Designed for administrative use to monitor and manage resources systemwide.
- Access: Admin privileges required.
- Response: A JSON array of objects, each representing a resource. Each object includes the resource type, amount, owner's username, and a unique resource identifier. Example of a generalized response:

4.2 Specific Resource Information

- Endpoint: /resources/<string:username>
- Method: GET
- Description: Retrieves a list of resources owned by a specific user.
- Access: Admin privileges required.
- Response: A JSON array of objects, each representing a resource owned by the specified user. Each object includes the resource type, amount, and a unique resource identifier. Example of a generalized response:

```
},
... // Additional resource objects
]
```

5 Terrain Map

5.1 General Terrain Map Information

• Endpoint: /terrain-map

• Method: GET

• Description: Get a look at all the terrain tiles in the map.

• Access: Requires logged in user privileges.

• Response: A JSON array of tile objects, each containing:

5.2 Specific Terrain Tile Information

• Endpoint: /terrain-map/<string:friend_username>

• Method: GET

• Description: Get a look at a user specific terrain tile in the map.

• Access: Requires logged in user privileges.

• Response: A JSON object containing the terrain tile information:

6 Friendships

• Endpoint: /friends

• Method: GET

- Description: Get a list of all friends for the current user.
- Access: Requires logged in user privileges.
- Response: A JSON array of relationship objects, each containing:

```
[
  "friend1",
  "friend2",
  "friend3"
]
```

7 Chat

• Endpoint: /messages/<string:friend_name>

- Description: Get a list of all chat messages for the current user.
- Access: Requires logged in user privileges.
- Response: A JSON array of chat message objects, each containing:

```
[
  {
    message_id: 1,
    "sender": "senderUsername",
    "receiver": "receiverUsername",
    "message": "Hello, how are you?",
    "created_at": "Tue, 26 Mar 2024 13:55:30 GMT"
  },
  {
    message_id: 2,
    "sender": "receiverUsername",
    "receiver": "senderUsername",
    "message": "I'm good, thanks!",
    "created_at": "Tue, 26 Mar 2024 13:56:30 GMT"
  }
  // Additional chat message objects as needed
]
```

8 Leaderboard

• Endpoint: /leaderboard

- Description: Get a list of top 3 users, 2 friends and yourself sorted by their score.
- Access: Requires logged in user privileges.
- Response: A JSON array of user objects, each containing:

9 Market

• endpoint: /update-building-map

• Method: POST

- Description: Handles POST requests to insert JSON data into the database. Expects JSON data in the request body.
- Access: Requires logged in user privileges.
- Response: A JSON object with status and message indicating success or failure.

10 Building

• endpoint: /fetch-building-information

- Description: Handles GET requests to fetch building information for the current user.
- Access: Requires logged in user privileges.

 \bullet Response: A JSON object containing building information.