API in Flask

Introduction

This document describes the structure of a Flask API for managing parents, kids, schools, classes, and more. It includes various resources and their corresponding endpoints.

Resource Overview

1. **Hello Resource** - **Description:** Example API Resource - **Endpoints:**

   - */hello*
   - **Methods:** - *GET*: Returns a greeting message. - *POST*: Returns a greeting message for a post request. - *DELETE*: No action (placeholder).

2. **Parent Register Resource** - **Description:** Handles registration of parents. - **Endpoints:**

   - */parent*
   - **Methods:** - *POST*: Register a new parent.

3. **Parent Login Resource** - **Description:** Handles login for parents. - **Endpoints:**

   - */login/parent*
   - **Methods:** - *POST*: Log in a parent and return a JWT token.

4. **Kid Resource** - **Description:** Manages kid-related operations. - **Endpoints:**

   - */add/kid*
   - **Methods:** - *POST*: Create a new kid. - *GET*: Retrieve kid information. - *DELETE*: Delete a kid.

5. **School Resource** - **Description:** Manages school-related operations. - **Endpoints:**

   - */schools*
   - **Methods:** - *GET*: Retrieve a list of schools. - *POST*: Add a new kid's school information.

6. **Class Resource** - **Description:** Handles class-related operations. - **Endpoints:**

   - */classes*
   - **Methods:** - *GET*: Retrieve a list of classes. - *POST*: Create a new class.

7. **SubClass Resource** - **Description:** Handles subclass-related operations. - **Endpoints:**

   - */subclasses*
   - **Methods:** - *GET*: Retrieve a list of subclasses. - *POST*: Create a new subclass.

8. **Topics Resource** - **Description:** Manages topics. - **Endpoints:**

   - */topics*
   - **Methods:** - *GET*: Retrieve a list of topics. - *POST*: Create a new topic.

9. **PinCode Resource** - **Description:** Manages PIN codes. - **Endpoints:**

   - */pin*

- **Methods:** - *POST*: Create a new PIN code. - *PUT*: Update an existing PIN code. - *GET*: Send a new PIN code to email.

10. **Password Resource**

   - **Description:** Manages password updates.
   - **Endpoints:** - */password*
   - **Methods:** - *PUT*: Update the password.

11. **Apps Resource**

   - **Description:** Manages apps.
   - **Endpoints:** - */apps*
   - **Methods:** - *POST*: Create a new app. - *GET*: Retrieve a list of apps.

12. **BlockApps Resource**

   - **Description:** Blocks apps for a specific user.
   - **Endpoints:** - */block*
   - **Methods:** - *POST*: Block apps for a kid.

13. **Avatar Resource**

   - **Description:** Updates a user's avatar.
   - **Endpoints:** - */avatar*
   - **Methods:** - *PUT*: Update the avatar.

14. **KidScreen Resource**

   - **Description:** Retrieves kid's screen information.
   - **Endpoints:** - */kid_screen*
   - **Methods:** - *GET*: Retrieve kid's screen information.

15. **KidProfile Resource**

   - **Description:** Manages a kid's profile.
   - **Endpoints:** - */change_kid*
   - **Methods:** - *PUT*: Update the kid's profile information.

16. **QuestionsStatus Resource**

   - **Description:** Retrieves the status of questions.
   - **Endpoints:** - */stat/question*
   - **Methods:** - *GET*: Get the status of questions for a specific kid.

17. **Questions Resource**

- **Description:** Retrieves questions.

- **Endpoints:** - */question*

- **Methods:** - *GET*: Get questions.

18 **Answer Resource**

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- **Description:** Submits answers.

- **Endpoints:** - */answer*

- **Methods:** - *GET*: Submit an answer for a specific kid and question.

API Initialization

The API is initialized using Flask and Flask-RESTful. Various resources are added to the API, each having its own set of endpoints.

```python
```python from flask import Flask from flask_restful import Api from api.resources import *

app = Flask('Thinking') api = Api(app, prefix='/api') # API Initialization

# Adding resources to the API api.add_resource(Hello, '/hello') api.add_resource(ParentRegister, '/parent') api.add_resource(ParentLogin, '/login/parent') api.add_resource(Kid, '/add/kid') api.add_resource(School, '/schools') api.add_resource(Class, '/classes') api.add_resource(SubClass, '/subclasses') api.add_resource(Topics, '/topics') api.add_resource(PinCode, '/pin') api.add_resource(Password, '/password') api.add_resource(Apps, '/apps') api.add_resource(BlockApps, '/block') api.add_resource(Avatar, '/avatar') api.add_resource(KidScreen, '/kid_screen') api.add_resource(KidProfile, '/change_kid') api.add_resource(QuestionsStatus, '/stat/question') api.add_resource(Questions, '/question') api.add_resource(Answer, '/answer')

if __name__ == '__main__':
    app.run(debug=True, port=5000)
```