Readme.md 8/26/2024

# Task Queue API with Rate Limiting

### Overview

This Node.js API handles tasks with user-specific rate limiting. It supports 1 task per second and 20 tasks per minute for each user. The tasks are queued and processed according to the rate limits.

#### **Features**

- User-specific rate limiting
- Task queueing using Bull and Redis
- Logs task completion in a file
- Resilient to failures and edge cases

### **Prerequisites**

- Node.js
- Docker
- Redis

### **Environment Variables**

```
PORT=3000

REDIS_URL=redis://127.0.0.1:6379

RATE_LIMIT_POINTS=20

RATE_LIMIT_DURATION=60
```

#### Installation

1. Clone the repository:

```
git clone https://github.com/SunkePavanKumar/user-task-queuing.git
cd user-task-queuing
```

2. Install dependencies:

```
npm install
```

3. Start redis using docker:

```
docker-compose up -d
```

Readme.md 8/26/2024

4. Start the server:

```
npm run dev
```

# Usage

Send a POST request to the /api/v1/task route with a JSON body containing the user ID:

```
{
    "user_id": "123"
}
```

## **Running Tests**

```
npm run <mark>test</mark>
```