

PiSync Backend

PiSync is a lightweight backend service that handles sync events from offline-first devices like PiBook and PiBox. When devices regain internet access, they send sync logs which are processed, stored, and analyzed by this system.

Tech Stack

- Node.js with Express.js
- MongoDB for storage

Features

- POST /sync-event: Accepts sync events from devices
- GET /device/:id/sync-history: Returns sync history of a device
- GET /devices/repeated-failures: Returns devices with >3 sync failures
- Logs a warning if a device fails to sync 3 times in a row

Setup Instructions

1. Clone Repo

```
git clone https://github.com/Puneet-Vishnoi/pisync-backend.git
cd pisync-backend
```

2. Environment Variables

Create a .env file:

```
MONGO_URI=mongodb://localhost:27017/pisync
PORT=3000
REDIS_HOST=localhost
REDIS_PORT=6379
```

3. Install Dependencies

```
npm install
```

4. Start the Server

```
npm start
```

API Docs (Brief)

POST /api/sync-event

```
{
  "device_id": "abc123",
  "timestamp": "2024-05-08T12:00:00Z",
  "total_files_synced": 20,
  "total_errors": 1,
  "internet_speed": 3.2
}
```

GET /api/device/:id/sync-history

Returns last 50 sync events for a device.

GET /api/devices/repeated-failures

Returns devices with more than 3 error-filled syncs.

Testing

Use Postman or curl to test the endpoints.

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