Patient Engagement Platform - API Documentation

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1. Introduction

Documentation of the API integration for the Patient Engagement Platform (Jul 2022 - Dec 2022) to connect with Epic EHR systems. This 1-2 page excerpt, part of a 7-page document, was used by developers in Nov 2022 to ensure secure data exchange, supporting a 15% no-show reduction.

2. API Overview

- Endpoint: [Epic EHR API URL]/patient-data

- Purpose: Sync patient and appointment data with HealthSync portal.

- Protocol: REST, HTTPS, JSON format.

- Authentication: OAuth 2.0, managed by hospital IT.

3. Key Endpoints

Endpoint 1: GET /appointments

- Description: Retrieve patient appointment details.

- Parameters: patient_id (string), date_range (optional).

- Response: JSON with appointment_id, date, provider.

- Example: GET /appointments?patient_id=12345

- Status Codes: 200 (success), 401 (unauthorized), 500 (server error).

Endpoint 2: POST /appointments

- Description: Create or update appointment.

- Parameters: patient_id (string), date (datetime), provider_id (string).

- Response: JSON with confirmation_id.

- Example: POST /appointments {"patient_id": "12345", "date": "2022-12-01T10:00"}

- Status Codes: 201 (created), 400 (bad request).

4. Security

- Encryption: AES-256 for data in transit, verified in sprint 4.

- Access: Role-based, restricted to authorized users.

- Audit Logs: Track all API calls, reviewed biweekly.

5. Testing

- Tools: Postman for API validation in sprints 3-4.

- Test Cases: 10 cases (e.g., valid/invalid patient_id, rate limits).

- Results: 100% success rate in UAT (Dec 2022).

6. Troubleshooting

- Issue: 401 Unauthorized. Solution: Refresh OAuth token.

- Issue: Slow response. Solution: Check API rate limits (500 calls/min).

- Support: Contact [hospital IT email].