**Steps from "Interoperability: FHIR Data Exchange with HAPI FHIR POSTMAN"**

**1. Introduction**

HAPI FHIR is a RESTful API for healthcare data exchange using the FHIR standard. This guide covers how to use Postman to interact with a HAPI FHIR server for CRUD operations.

**2. Install Postman**

1. **On the HAPI FHIR VM:**

bash

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sudo snap install postman

1. **Launch Postman** and log in (optional, using MTU credentials).

**3. Access HAPI FHIR Swagger UI**

1. Open a browser and navigate to:

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http://localhost:8090/fhir/swagger-ui/

* + Review available endpoints (e.g., Patient, Practitioner).

**4. CRUD Operations Using Postman**

**4.1 Create a Practitioner (POST)**

1. **Open Postman** → Create a new request.
2. **Set Method:** POST
3. **URL:**

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http://localhost:8090/fhir/Practitioner

1. **Headers:**
   * Content-Type: application/json
2. **Request Body (JSON):**

json

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{

"resourceType": "Practitioner",

"active": true,

"name": [{

"family": "Williams",

"given": ["Rory", "James"],

"prefix": ["Dr."],

"suffix": ["M.D."]

}]

}

1. **Send Request** → Verify **HTTP 201 Created** response.

**4.2 Search Practitioners (GET)**

1. **Method:** GET
2. **URL:**

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http://localhost:8090/fhir/Practitioner

* + **Search by ID:** Append /{id} (e.g., /4).

1. **Response:** Returns a FHIR Bundle of practitioners.

**4.3 Update a Practitioner (PUT)**

1. **Method:** PUT
2. **URL:**

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http://localhost:8090/fhir/Practitioner/{id}

1. **Body:** Updated JSON (e.g., modify active to false).

**4.4 Delete a Practitioner (DELETE)**

1. **Method:** DELETE
2. **URL:**

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http://localhost:8090/fhir/Practitioner/{id}

**5. Advanced Search**

Use query parameters for filtering:

* **Example:** Search for practitioners named "Williams":

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http://localhost:8090/fhir/Practitioner?family=Williams

* **Complex Query (AND/OR):**

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http://localhost:8090/fhir/Practitioner?family=Williams,William&\_lastUpdated=gt2011-01-01

**6. HAPI FHIR Dashboard**

Access the dashboard at:

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http://localhost:8090/

* View/manage FHIR resources directly.

**7. Python REST Client (Optional)**

python

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import requests

fhir\_url = 'http://localhost:8090/fhir/Practitioner'

headers = {'Accept': 'application/json'}

response = requests.get(fhir\_url, headers=headers)

print(response.json())