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Lab 4 - HL7 FHIR Fundamentals

CS6440 Intro Health Informatics, 2020 Spring

**Exercise 1: Create a Patient Resource**

**Create a patient resource with the following information:**

* **Identifier: Your GT Username if you use HAPI FHIR; Your firstname. lastname if you use GT FHIR.**
* **Name: You can create a First Name and Last Name**
* **Birthday: Make Up One**
* **Gender: Choose One**
* **Telecom: Make Up One**
* **Address: Make up one with Line, City, State, Postal Code, and Country**

**Feel free to add other elements as you wish! Add your resource code to your PDF submission. You can submit your solution in XML or JSON format.**

As shown in **Figure 1**.

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Figure 1. Patient resource code created using HAPI FHIR, in JSON format.

**Exercise 2: CRUD Operations**

**Complete the following tasks:**

1. **Using the Patient Resource you created, save the resources by making a POST to the FHIR Server. Make sure the New Resource is successfully saved.**

The Steps I took:

* 1. Selected the POST method

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* 1. Input HAPI FHIR address.

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* 1. Set parameters “\_format” to “json”, and “\_pretty” to “true” under “Params” tab.

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* 1. Set parameters “Content\_type” to “application/json+fhir” under “Headers” tab.

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* 1. Input the resource code that I have created in Exercise A, which is shown above, into the blank after choosing “raw” under the “Body” tab.

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* 1. Press “Send” button. If the returned information indicates the Status is “201 created”, the POST action was successful.

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* 1. The created resource is shown below. Note that line 10 of the resource is too long to be fully demonstrated here.

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1. **GET the FHIR Resource using the ID that has been assigned by the server to your resource**.

2.1. Select the GET method

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2.2. Input HAPI FHIR address

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2.3. Set parameters “\_format” to “json”, “\_pretty” to “true”, and “\_id” to “597509” (refer to section 1.7.) under “Params” tab.

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2.4. Set parameters “Content\_type” to “application/json+fhir” under “Headers” tab.A screenshot of a cell phone

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2.5. Press “Send” button. If the returned information indicates the Status is “200 OK”, the GET action was successful.

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2.6. The acquired resource is shown below. Note that line 28 of the resource is too long to be fully demonstrated here.

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1. **Using the Resource you retrieved in task 2, alter the line, city, state and telecom to different ones and send your edited resource for update to the server.**

3.1. Select the PUT method

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3.2. Input HAPI FHIR address, which has been used in **Section 2.5.** Doing so will set parameters automatically under “Params” tab.

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3.3. Set parameters “Content\_type” to “application/json” under “Headers” tab.

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3.4. Input the resource code that I have created in task 2, alter the line, city, state and telecom to different ones.

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3.5. Press “Send” button. If the returned information indicates the Status is “200 OK”, the PUT action was successful.

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3.6. The modified resource is shown below. Note that line 10 of the resource is too long to be fully demonstrated here.

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