1. What is an ADT message?

Sankar: ADT (Admit, Discharge and Transfer) message is HL7 standard based message type used for data exchange, send, receive, communicate, integrate and share between health systems.

1. What are HL7 Separator characters?

Sankar: HL7 has Field (|) , Component (^), Sub-component (&) , Repetition (~) and Escape (\) characters , this will be in the MSH-2 as “^~\&”

1. What function would you use to update the date and time to current in MSH segment in Mirth?

Var currDate = DateUtil.getCurrentDate("yyyyMMddHHmmss");

Then set the currDate value to MSH-7 as msg['MSH']['MSH.7']['MSH.7.1'] = currDate;

1. A sending application sends all ADT types. The client only accepts ADT-A01. How would you handle that in Mirth?

We can add filter in the Channel Destination by adding a new rule via Rule Builder to accept message only if trigger event == “A01” //MSH-9.2

1. Where in Mirth would you write code that is used in multiple channels?

In the Global scripts, we can add reusable javascript functions such as date formatting, utils, folder path, database connections, etc.

1. Where would you set a certain type of data for a channel to receive and send out?

After selecting Destination Connector and Source Connector types from MLLP Listener, File Reader, Database Reader, we have to select the appropriate data type format such as HL7, XML, JSON, Delimited Text.

1. How would you allow the code, written in question 5, to be used by a channel?

We can call the function that is written in the global script.

e.g function getCurrentDate() {

var currDatetime = DateUtil.getCurrentDate (‘yyyyMMddHHMMSS’);

return currDatetime;

}

In the transformer, we can call the function like this,

var currentDate = getCurrentDateTime();

1. Inbound and outbound message templates are used for what?

So that we can do the parsing, field mapping, customizing, validation, referencing fields and segments for assigning variables and values.

1. How would you map a variable without the use of JavaScript?

In the Transformer, we can steps to use Mapper or Message Builder types to map a variable

1. Using JavaScript, loop through any 3 element array and log/write out the individual elements.

Function writeArrayelement() {

Var arr = []dg1, dg2, dg3];

For (var i=0; I < arr.length;i++) {

Logger.info(“Array :”+i+” \_”+arr[i]);

}

}

writeArrayelement();

1. What is the Velocity Template Language? Can you provide an example?

These are placeholders to insert data dynamically from variables to write, manipulate and customize the output text.

In json parsing, patient’s Full name (last,first,middle) can be kept in the array and variables can loop through the array elements and populate the output

Alternatively, we can use the channelMap(key, value);