

HCL Technologies Industrial Training

BPM Training Examination Group Team Exam 2– Due Date 26 January 2018

IBM BPM Group Work -BPM 8002

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Reading Time: 4 days

Writing Time: 96 Hours

Permitted Materials: Notes and any other material

*Answer **all** questions in this section using the answer booklet(s) provided. Answers are expected to be succinct but complete. Answers that are too long and irrelevant will be penalized. Please do the technical work in IBM BPM Cloud and also take screenshots in a word document. Groups of 2 or 3 , will be done and submission will come in as one's group for this.*

Question 1 BPM uses the following coach frameworks namely Sparks,Brazos among others.

1. Explain in your own words and not more than 10 lines the history of Coach Frameworks based on literature from the web.
2. Sparks is now the preferred coach partner by IBM for BPM 8.6 , what are the advantages of using Sparks. Sparks provides 80 coach views please list 15 of those coach views and explain what each of those coach views does?
3. Brazos is another major coach framework.Based on the literature from the internet please explain in not more than 10 lines the history of Brazos and its unique features
4. Please list any noticeable differences between Brazos and Sparks coach frameworks.

[15 marks]

Question 2a As an extension to Exam 2 , for buying a TV question please create another process called Pay A TV with one screen to capture the payment. In the process after the human service called CaptureTVPayment Human Service then put a message event that allows it to send a payment details to the original BuyTV process from Exam 2. The CaptureTVPayment Human Service should capture the same data eg Receipt Number, Payment Amount, Cashier,Date of Payment, Branch of Game. Run a couple of test and document screenshots. [15 marks]

Question 2b As an extension to Exam 2 , for buying a TV question please create another StandAlone Human service called Pay A TV with one screen to capture the payment. In the StandAlone human service then put a message event after the coach that allows it to send payment details to the original ByTV process. Run a couple of test and document screenshots. Please note in this case the message sending event is within the human service since there is no process in that case. The StandAlone Human Service should capture the same data eg Reciept Number, Payment Amount, Cashier,Date of Payment, Branch of Game. The Human Service should be exposed as a Dashboard on Portal. Please run a couple of tests and document [15 marks]

Question 2c As an extension to Exam 2 , for the Consuming Java Question please implement the java program on your own in Eclipse and export the jar into BPM and repeat the same exercise.”<https://developer.twitter.com/en/docs>”

[15 marks]

Question 3 BPM Validations -Dialog Box

Please search for Kolban video "IBM BPM: Creating a Dialog with SPARK UI" on YouTube.

As an extension to Exam 2 , for the Home Loans Process question. Please add a dialog box when submitting the capture home loan using the dialog control and show the message "Are you sure you want to submit the home loan". There should be a submit or cancel button on the dialog box such that if i cancel the submission is not done. [15 marks]

Question 4 BPM Validations -Coach Views

Please go through this video by Kolban on Coach Views,"IBM BPM: Custom Coach Views"

<https://www.youtube.com/watch?v=j5bCvffQZbYt=2220s>. There is an Ampersand Character between Y and t on the URL. Please also go through this YouTube vedio "IBM BPM 8.5 Advanced - Coach Views"

1. [5 marks] In the Home Loans Process please create a Coach View called address with the following , surburb,town,street,Post Box,Country,Home number.
2. [5 marks] Then add two controls in your capture home Loan and approve home loan Human Services namely called, Residential Address as well as Postal Address using the same Coach View created above.
3. [6 marks] The second step will show the same addresses above in read only mode. Please make use of the coach views as well.
4. [6 marks] Also please why we need coach views in 5 lines from your own words please.

Question 5 .. BPM and Brazos Coaches toolkit

Please check on the web for documentation pertaining to the Brazos Coaches framework.

1. [5 marks] Please list 10 coach views provided by Sparks or Default Coach Frameworks that you have used or intend to use.
2. [5 marks] Download the Brazos Coaches toolkit from the internet and save on your machine. Create a process App called, DemonstrateBrazos-Username. Import the Brazos toolkit into your process app. Create a process called DemonstrateBrazos-Username-Process. The process has 2 Human Steps. Call the first Step BrazosHS1 and have fields, name , surname and address as well as gender in a select drop down where one selects male or female. To create this fields please only select Brazos coaches controls only not the default Sparks Controls. Please put validations to make sure name,surname and gender are mandatory as well.

3. [6 marks] The second step will show the same fields above in read only mode.
4. [6 marks] Based on the above. Explain the advantages of using Brazos or disadvantages of using Brazos as opposed to using Sparks.
5. [6 marks] Implement a Coach using a header and footer coach views to view a document you just uploaded

Question 6 .. BPM and Twitter

Please read this video <https://www.youtube.com/watch?v=LooL6chvN4> (Please put underscore between 6 and c in the url) for REST API concepts. Please read about <http://www.apigee.com/>. Please check on the web for documentation pertaining to a Twitter API you can call.

1. [6 marks] Define the following , Endpoint, the S in the word HTTPS, based on the video above. Differentiate YAML Vs JSON
2. [5 marks] Please download a Twitter API and use Soapui to send messages to Twitter using SoapUi
3. [6 marks] Generate a YAML for the Twitter Services
4. [6 marks] Create a BPM Process called DemonstrateTwitterWithAPI with 2 step , one step called captureTwitterComments where one capture the twitter comments. Then followed by an integration Service implementing a Service Flow that consumes the Twitter YAML. Please go through this youtube video as well. "IBM BPM Technical Tutorials: Using External Services with REST" by Kolban.
5. [6 marks] Please run some tests on the above and show the documentation.

<https://www.youtube.com/watch?v=TvGLm7BijJY>

Question 7 .. BPM and SOAP Web Services

Please read this video, "REST Vs SOAP - What is the difference? — Tech Primers". Explain what SOAP means?

1. [6 marks] A Soap Web Service has its own advantages, Explain
2. [5 marks] A soap Web Service has cons. Explains those
3. [6 marks] Compare Soap and REST explaining the advantages and disadvantages in your own words.
4. [6 marks] Soap uses XML and WSDLs. Please explain in 10 lines maximum the meaning of the 2 above.

———— *End of Examination* ————