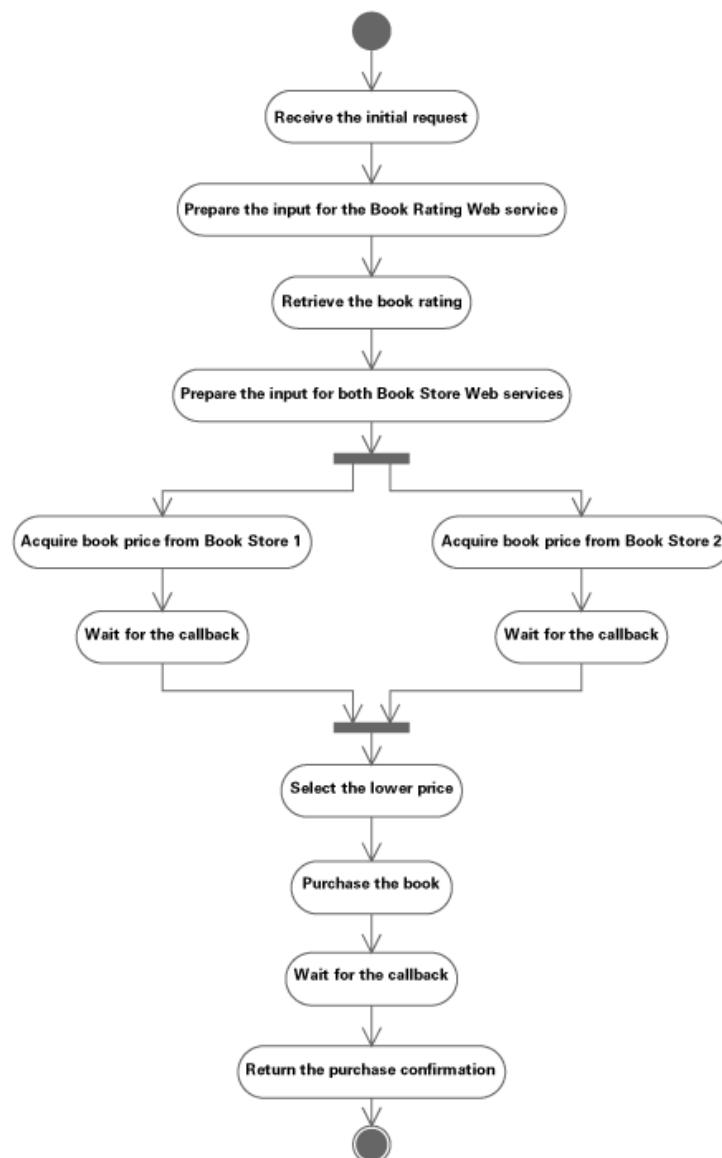


Assignment 2: Orchestration of Book Buying Services using BPEL

The business process of buying books is asynchronous and involves three Web services. The first, a book-rating Web service, returns a rating of 0 to 5 (best) for a specific book. This Web service is invoked synchronously. The process then queries two bookstores for the book price. For this step it invokes two identical bookstore Web services in asynchronously. Then the process selects the lower price and makes the book purchase (also asynchronously). Schematically, the business process looks like this:



To develop a BPEL process corresponding to the activity diagram, you first have to define the process Web Services Definition Language (WSDL), including the port types, operations, and messages. Because the BPEL process will be asynchronous, you need two port types: The BuyBookPT will serve for client requests, and the ClientCallbackPT will be used to enable the BPEL process to perform callbacks on the client. The BuyBookPT will have only one operation: BuyBook. The ClientCallbackPT will declare two operations: ClientCallback, for signaling successful completion, and ClientCallbackFault, for signaling faults to the client.

Create the composite business process for buying books and test it.

Demo can be shown during 8th hour of 27th, 28th Sep, 4th and 5th Oct. Weightage is 20% in UT3.
