

COMP 3111: Software Engineering

Lab Activity: State Management in ASP.NET

Maintain Currency Information in Session State for the *HKeInvest* Application



If you have not attended the tutorial or read the tutorial and lab notes for *State Management in ASP.NET* you may not know how to complete this lab activity. Attending the tutorial will help ensure that you are able to complete the lab activity during the lab period.

This lab activity requires the “SecurityHoldingDetails.aspx” web form that you constructed in the “ADO.NET Lab Activity” as well as the *HKeInvestDB.mdf* SQL Server database.

LAB OBJECTIVE

The *HKeInvest* application requires that clients be able to show any total monetary value in any of the currently available currencies (requirement 5(b)). While the currency information can be retrieved from an external system every time it is required, this approach incurs considerable overhead in accessing the external system. Instead, the currency information can be retrieved from the external system only once, the first time it is needed, stored in session state and thereafter be accessed from session state rather than from the external system.

Note: You may assume that the currency information will not change during a client’s session.

LAB ACTIVITY TASKS

1. Construct a method that retrieves the currency information from the external system if it is not already stored in session state. Since this method may be required in several places in the web application, it should be placed in the “Code_File” folder.
2. Modify the code in the “SecurityHoldingDetails.cs” file so that it retrieves all currency information from session state rather than from the external system.

Note: The “SecurityHoldingDetails.cs” file should not contain any code that directly accesses the external system to obtain currency information.

HOW TO GET THE CREDIT FOR THIS LAB

To get the full credit for this lab, show and demonstrate your code for maintaining currency information in session state to a TA by the end of the lab period.