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**Week 3 tasks**

**Complete the following tasks by the end of class and post them in Discussion Board of BB under KWL chart and 3 Tier Architecture**

1. Explain 3 - Tier architecture model in development process of Applications. What are its limitations and advantages?
2. Complete ‘Learned’ part on KWL chart from previous class.
3. 3 Tier architecture is an application that is divided into three parts: Client side (where the code runs on web browser), Server side (where code runs on web server), and Database (where data is stored and maintained in a database server). This type of architecture has many advantages such as breaking down the jobs of the application neatly into three tiers, each responsible for their own tasks. For the user, all they must do is for example click on a video on a clean looking user interface and behind the scenes, the data is strategically shared between the data tier, loc tier and presentation tier. Another thing that makes this type of architecture beneficial is that it is easy to modify or replace any tier without affecting the other tiers and security policies can be enforced in each tier adequately.

Tier 1) Client side that runs on web browser, a software or application that is used to request the web pages. It interprets the HTML and displays the webpage and its contents. The communication protocol at application layer between web browser and web server is http protocol. Often written in HTML5, Java Script, CSS etc.

Tier 2) Web server is a special type of server that is used to post the web pages requested by the web browser client side. This side also has the task of compiling and executing the server-side code if it is embedded into the requested web page. Server-side code is composed of logical decisions, evaluations, performs calculations, accesses database and manipulate data. Often written in Java, C++, python etc.

Tier 3) Data tier resides on the database server of an application. It is composed of database/data storage system and data access layer, which is often written in mySQL, Oracle etc.