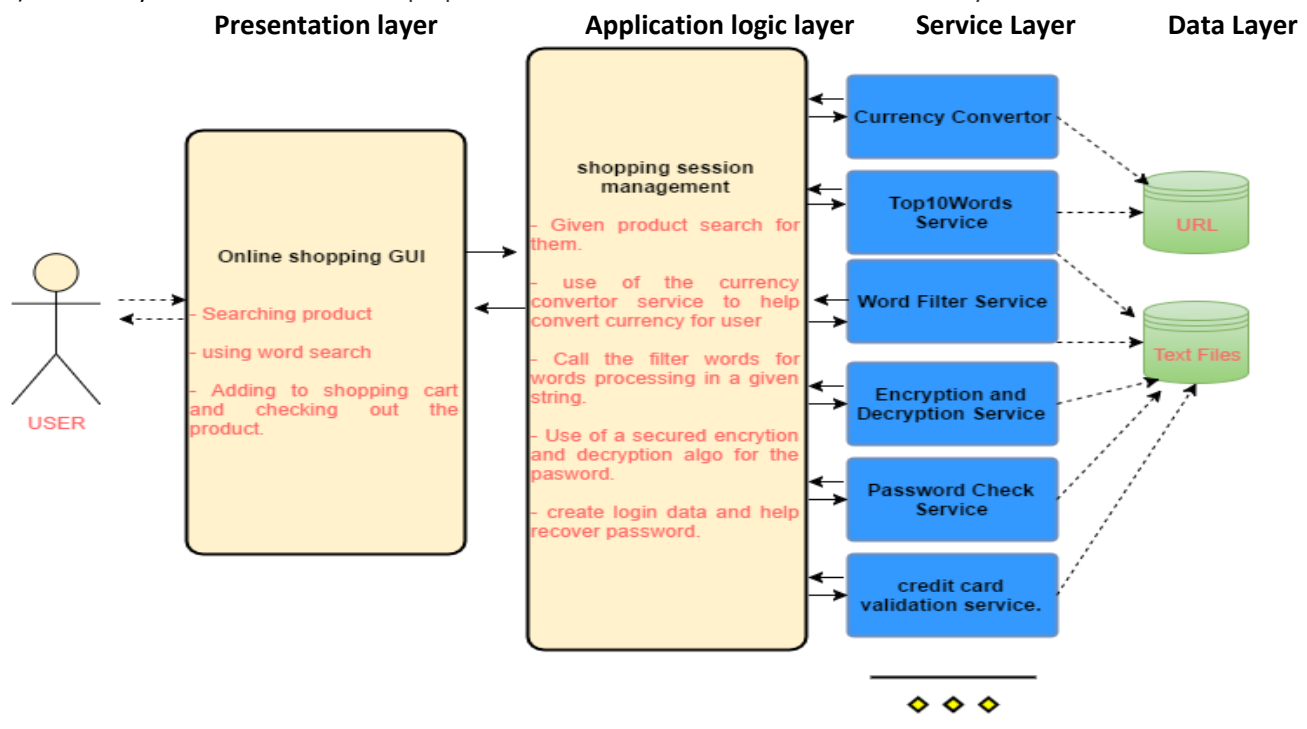# Assignment – 3

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Description: The system that I plan to develop involves an online computer sales website which is used for the purpose of purchasing the computers from them.

The first part of the assignment involves developing two services which would be tested locally we would create a tryit page for each of the service and would check if the services are working perfectly.

The services that I choose and developed for the first part of the assignment would be:

1) Word filter services – which filters out all of the tags and that of the stop words from the given input string and displays the output.
2) Top10Words service – In this service given a url link which is a web page we have to extract the contents of the page and find out the words and find out the top 10 most repeated words.
3) Encryption and Decryption Service: The purpose of this service is in order to encrypt and decrypt the password that is been given by the user while logging in for security purposes. This is done using a symmetric key.
4) Credit Card Validation Service: The purpose of this service is in order to validate the card number that is given by the user and to select the type of card that the user as submitted.
5) Password verification service: The purpose of this service is in order to validate the password given by the user with following constraints.
6) Currency Convertor Service: The purpose of this service is in order to convert currency of one format to another.

Presentation layer	Application logic layer	Service Layer	Data Layer

Please Refer The index.html page for the services and their tryit page links.

References:-

- https://social.msdn.microsoft.com/Forums/vstudio/en-US/d6a2836a-d587-4068-8630-94f4fb2a2aeb/encrypt-and-decrypt-a-string-in-c?forum=csharpgeneral
- http://stackoverflow.com/questions/202011/encrypt-and-decrypt-a-string
- http://stackoverflow.com/questions/10168240/encrypting-decrypting-a-string-in-c-sharp
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- https://hspinfo.wordpress.com/2008/07/05/a-regular-expression-for-a-strong-password/
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