**InfoTrack Development Project:**

Requirement Analysis:

Any Search Result in http://www.google.com.au displays 10 results per page generally.

But in some cases if the search keyword relates to a location or an reputed organization within country then a piece of Google map is shown which provides directions to the location. For e.g. If a user types ‘InfoTrack’ in the search box, then in such a case the number of results are definitely less than 10 for the starting page.

Once the other hand if the user types “Info” then no such map is seen as it appears to be a generic word.

Hence I have catered to both the scenarios described above.These 2 patterns are very common in Google Search. In case 1 I was required to read URL results of only the 1st 10 pages for the starting 100 results but in case 2 I was required to navigate to the 11th page to fetch the starting 100 results.

Processing Logic breakup:

To build the URL verification Logic:

* Build the QueryString which is done for separately for the first page and the subsequent pages.
* Generate the Google Search Result using this QueryString.
* Grab only the Ordered List starting with <ol> from the Generated Google Search Result.
* The urls needed to be verified is found in between the following pattern <h3 class=\"r\"><a href= and "</a></h3>"
* All Urls must be taken from here.
* A list of all Urls up to 100 is generated using the above mentioned pattern
* The Url which the user needs to check is verified by iterating through this list for 100.
* The user is notified likewise whether or not a match is found.

Further Improvements:

Having worked on the project I am aware that further improvements are possible.The UI is very simple it can be beautified and made to look more attractive.I feel there is scope to make UI more responsive.User needs to be informed that an task is in progress,I feel that due to other tasks being more important and taking more of my time this is something that can be improved in the application and I am aware of.

Please also note that both frontend validation using Angular.js and backend validation in C#(for writing more unit test cases) have been done.

The Google url is configured so as to make the application more maintainable.