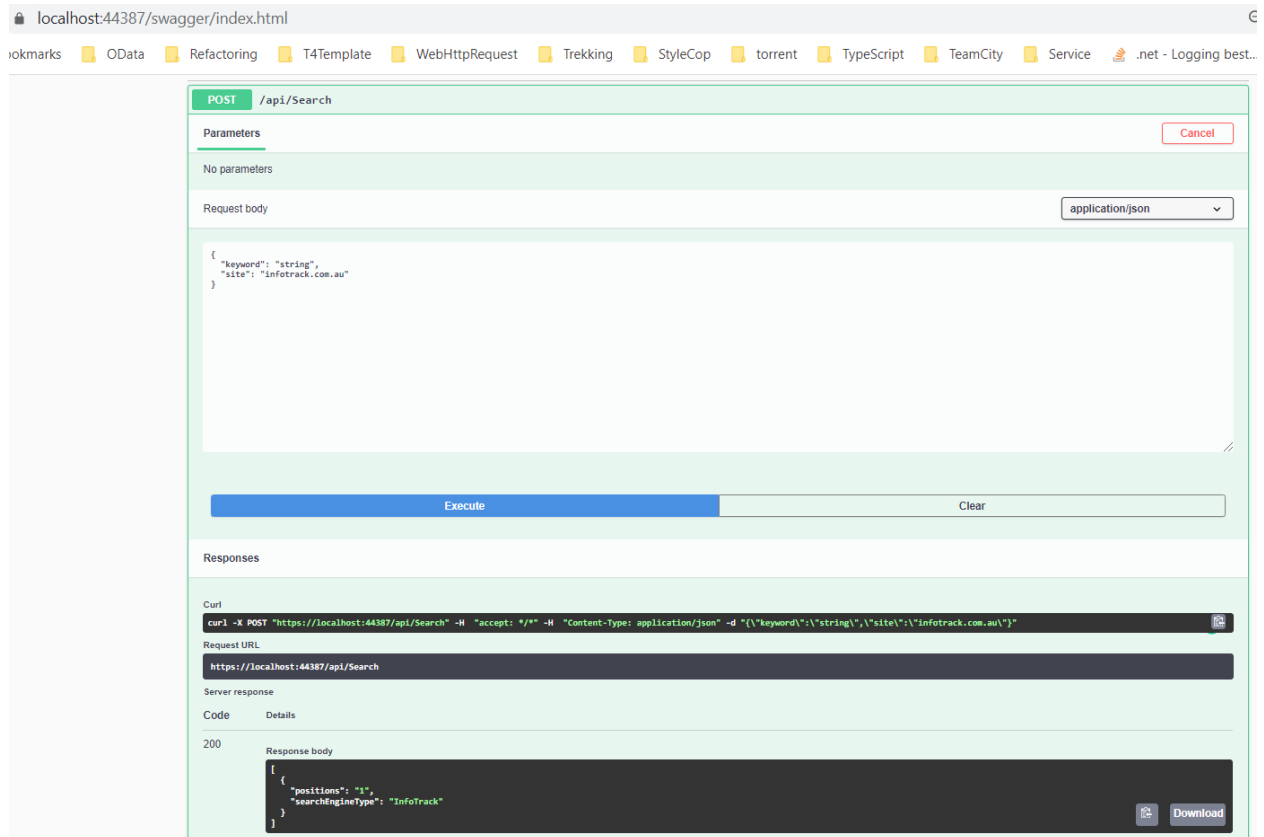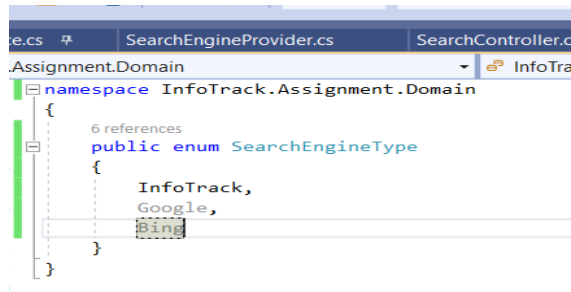InfoTrack Assignment

Instruction

1. I have used swagger for API documentation and for testing. I haven't create any external UI for this assignment.

2. This solution is using the static pages mentioned is the assignment. I am using these static pages for searching {01-10}.html the site. As I am told during the first interview.
3. As it is a home assignment so I haven't add any logging and added few exception handling code.
4. I have used strategy pattern for choosing search Engine or use combination of search engines. This design is extensible for implementing the search using google/bing or any other search engine.
   a. To create another search strategy first it is required to add enum value as

```
e.cs  ↴      SearchEngineProvider.cs        SearchController.c
.Assignment.Domain                        ▼  🔗 InfoTra
  ⊟namespace InfoTrack.Assignment.Domain
   {
        6 references
        public enum SearchEngineType
        {
            InfoTrack,
            Google,
            Bing
        }
   }
```

b. Then you will need to extend the Interface ISearchStrategy

```
7 references
public class InfoTrackSearchStrategy : ISearchStrategy
{
     private readonly string _searchEngineUrl;
```

c. After that change the SearchEngineProvider class which work as factory. And create
search strategy based on SearchEngineType.

```
2 references
public class SearchEngineProvider: ISearchEngineProvider
{
    3 references | ⊘ 1/1 passing
    public ISearchStrategy GetSearchStrategy(SearchEngineType searchEngineType, string searchEngineUrl)
    {
        switch (searchEngineType)
        {
            case SearchEngineType.InfoTrack:
                return new InfoTrackSearchStrategy(searchEngineUrl);
            default:
                return new InfoTrackSearchStrategy(searchEngineUrl);
        }
    }
}
```

d. Change the SearchService to call SearchEngineProvider with suitable searchEngineType.

5. For unit testing I have used NSubstute which is similar to Moq. I have added few tests for
SearchStrategy Tests.