1. Functional requirements:
   1. Identify unique visitor to the site
   2. Count number of unique visitor to the site
   3. Segregate number of unique visitor to the site per day
   4. Push to database.
2. **Methodology**

**1.a. Identify unique visitor to the site**

We will be using cookie. When a user visit the site, the server checks for a “has visited today cookie”. If not found, increment the count in the database by 1 and send a “has visited today cookie” to the user, if found, ignore.

When a count is added to a database. Check whether a record of that day has existed. If not, create a record and increment it by 1. Else, increment by 1.

13/6/2021

I’ve found a way to add cookie into the user’s computer.

I used **Response.Cookies.Append(string key, object value, CookieOptions options)** to add a new cookie with the name “HasVisitedToday” into the user’s computer.

The **CookieOptions** is to set options for the newly created cookie. In this demo, I used it to set the **expiration** of the cookie to 5 minutes from now.

**CookieOptions options = new CookieOptions();**

**options.Expires = DateTime.Now.AddMinutes(5);**

This marks the success of component 1

Then I add the *what I call a record* into the database. The database schema consist of a table named **WebsiteStatistics** with 3 columns **(Date, VisitCount, NewAccountCount)** with the **Date** being the primary key.