**SEARCH STRATEGY**

The databases used for research are Google Scholar and ACM Digital Library.

**The different search strategies used for the research are listed below:**

1. (user authentication) AND (two factor) AND (sign-in)
2. (user sign-in) AND (two factor authentication)
3. (user sign-in) AND (two factor authentication) AND (security)
4. (user sign-in) AND (two factor authentication) AND (security) AND (software OR application)
5. (user sign-in) AND (two factor authentication) AND (plugin)
6. (user sign-in) AND (two factor authentication) AND (plugin) AND (software)
7. (user sign-in) AND ("two factor authentication") AND (software) AND (security) AND (plugin)

Out of these search strings, the finalized string is given below.

(user sign-in) AND ("two factor authentication") AND (software) AND (security) AND (plugin)

**Inclusion criteria:**

The research papers are selected based on the publication date from 01/08/2015 to 01/08/2020 and limited to only peer reviewed publications.

**Exclusion criteria:**

The research is only limited to peer reviewed publications.