



GAZI UNIVERSITY

ENGINEERING FACULTY

COMPUTER ENGINEERING

CENG482 INTRODUCTION TO COMPUTER SECURITY

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Assignment-2

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GOOGLE PRIVACY POLICY

Google is an American multinational company. It is a company that invests in internet search, online information distribution, advertising technologies and search engines. [1] The information that Google collects about us in this assignment is taken from the source [2], that is, from Google's own privacy policy.

Google stores the information it collects about us in our browser, our app, or our device if you are not signed in to a Google account. This information is limited. It can store what we choose within our browser session. It may show us more relevant search results and ads based on what we do while we are in the session, or maintain the language we have chosen for that session. If we have a Google account, Google also has our data called “personal information” that it stores in the Google account.

Personal Information: Data that personally identifies us. This information includes name, surname, age, e-mail address and billing information and so on.

When creating a Google account, Google asks us for some personal information and password. In addition, we can add phone number and payment information when it asks. However, this is at our discretion. Google can use such information for different purposes. Google also stores all the data we create while using the Google account.

Google has explained the purpose of collecting our data under the following headings in the Google Privacy Policy:

- Provide our services
- Maintain & improve our services
- Develop new services
- Provide personalized services, including content and ads
- Measure performance
- Communicate with you
- Protect Google, our users, and the public

Firstly, it collects some information from Google browser, applications, and devices that we use to access Google services. A lot of different operations can be done with the data it collects. For example, it can perform security and fraud detection with unique identifiers it collects about devices.

The following is some information that Google collects from devices, applications, and browsers.

- Unique identifiers
- Browser type and settings
- Device type and settings
- Operating system
- Mobile network information (carrier name and phone number)
- Application version number
- IP address
- Crash reports
- System activity
- The date of our request
- Time of our request
- Referrer URL of our request

Unique identifiers: A type of nomenclature that is different for each device used to identify a device, an application, a browser.

Secondly, some activity information provided from the browsers that we use by syncing with our Google account and from our YouTube account that we log in with our Google account is stored by Google. The activity information that Google says it collects in its privacy policy is listed below.

- Terms we search for
- Videos we watch
- Views and interactions with content and ads
- Voice and audio information
- Purchase activity
- People with whom we communicate or share content
- Activity on third-party sites and apps that use our services
- Chrome browsing history you've synced with our Google Account

When we use Google services to make calls and send messages, it also needs to store some information so that we can benefit from these services. This information can be listed as follows: phone number, calling-party number, receiving-party number, forwarding numbers,

sender and recipient email address, time and date of calls and messages, duration of calls, routing information, and types and volumes of calls and messages.

Thirdly and finally, there is the data that Google collects about our location. Google needs our location for various reasons. However, it is up to us to decide the duration of the information that Google has about our location. It is written in Google's own privacy policy that Google collects the following information to access our location information.

- GPS and other sensor data from your device
- IP address
- Activity on Google services
- Information about things near your device, such as Wi-Fi access points, cell towers, and Bluetooth-enabled devices

Apart from these, Google also collects information about us from publicly accessible sources. In addition, there are some points that are not written in the Google privacy policy, as mentioned in the source [3].

- Everything in our mailbox
- All saved to Google Drive

HOW MUCH DATA DO I HAVE ON GOOGLE

I checked my data in Google using Google Takeout service with my Google account. I have 475.2 MB of data in Google. [4]

I use 16 different Google services in my Google account. 6 of them are in recently used as Gmail, Google Play, YouTube, Calendar, Drive, Maps.

1. There are 948 conversations and 854 emails in my Gmail account.
2. There are 682 apps in the Google Play account.
3. His YouTube account has 5 custom playlists and 263 subscriptions.
4. I have more than 100 files in my Drive account.
5. Home, school and places I go frequently are registered in the Maps account.

In the Other Google Services section, there are 10 Google services. These are Analytics, Android Backups, Books, Chrome, Contacts, Groups, News, Payments, Photos, Tasks.

1. 59 applications backed up in Android Backups.

2. There are 6 books, 19 bookshelves and mores in the Books service.
3. There are 80 bookmarks, 198 passwords and mores in Chorme.
4. There are 36 contacts in Contacts.
5. There are 4 groups in my Groups account.
6. There are 11 followed sources, 6 followed topics and 1 saved story in the News service.
7. There is 1 payment profile in the Payments service.
8. There are 155 photos and 6 albums in the Photos service.
9. There are 4 open tasks, 30 completed tasks in Tasks.

REFERENCES

1. <https://en.wikipedia.org/wiki/Google>
2. <https://policies.google.com/privacy>
3. <https://www.avast.com/c-how-google-uses-your-data>
4. <https://myaccount.google.com/dashboard>