Instructions
Issue Reports Identification and Classification

Introduction

This guide describes the process used to identify relevant privacy requirements to issue reports. The issue reports are collected from the two well-known open-source software projects, Google Chrome and Moodle. These issue reports are classified into a privacy component. The process consists of three steps:

1. Identifying concerned personal data described in the issue report
2. Identifying functions/properties reported in the issue
3. Mapping the issue to one or more privacy requirements

Materials & Resources

This section lists the materials and resources required in the coding process.

Inputs

- Issue reports of Google Chrome and Moodle projects
- A taxonomy of privacy requirements

Process

- Form of issue reports classification.

Output

- Issue reports with relevant privacy requirements.

Steps

1. Identify concerned personal data

Goal: This step aims to consider whether an issue report relates to personal data. Since our main concern is the personal data of the subject. If the issue report is not related to the personal data, it will not be taken into account for privacy compliance.

If the issue report relates to personal data, the coder identifies which personal data they are, then records them in the given form. Otherwise, the coder marks as *'not related to personal data'*.

2. Identify functions/properties

Goal: This step asks to identify the functions reported in the issue. It facilitates the mapping between the issue and privacy requirements. The coder records the functions/properties identified from the issue in the given form.

3. Select relevant privacy requirements

Goal: This step is to select the relevant privacy requirement(s) from the taxonomy based on the given information of each issue.

In case that the coder cannot map the issue report to any requirements in the taxonomy (i.e. the requirements do not cover/relate to the issue), the coder records as *'Not applicable'*

It is possible that an issue report relates to multiple requirements. Therefore, the coder can record more than one requirement in the given form.

Example

Google Chrome issue 123403

“Regression: Can't delete individual cookies"

Follow the steps:

a. Identify concerned personal data
   => individual cookies
   The individual cookies data are affected because it cannot be deleted.

b. Identify functions/properties
   => the individual cookies cannot be deleted.
   This means the system does not allow a user to delete his individual cookies data

c. Select relevant privacy requirements
   => R44 Allow the data subject to erase their personal data
   The privacy requirement that relates to this issue report is R44.

How to use the form

Each coder is given a form in a sheet format to record the issue reports classification. It contains the issue reports that that coder is responsible for.

Columns:

There are 79 columns in the form consisting of issue number (No.), issue ID, issue summary, issue description, data (to record the concerned data), functions (to record the identified functions/properties) and the other 73 columns (is personal data?, not applicable and R1 - R71). The values recorded in the 73 columns are in binary format where 0 represents ‘NO’ and 1 represents ‘YES’.

The first 4 columns are pre-filled since they are the issue reports extracted from the issue tracking system of both projects.