1. **File wise separation for a bug report**

For a given bug in the bug\_report\_data.csv, create separate row for each file and append in the new csv file - FileWiseBugReport.csv

1. **Manual labelling**

FileWiseBugReport.csv is checked and labelled as relevant, most relevant, probably relevant, probably irrelevant and irrelevant

1. **Diffextractor** - diffextractor.py

Get the removed code from the diff’s in the Mercurial

This is divided into multiple files for faster execution.

Filename: diffextractor\_97\_209.py

i/p: 1\_620\_till\_M\_v64\_labelData.xlsx

o/p: removedCode\_98\_209.csv

**Algo**

For each Bug report ID:

Search <https://hg.mozilla.org/releases/mozilla-release/>

Select the diff

Select the diff for each associated file

Extract the removed code

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Bug Number** | **Filename** | **Mozilla**  **version** | **Removed Code** |  |
| Bug 1488295 |  |  |  |  |
|  |  |  |  |  |

1. **CodeLocaliser –**

* will check if the removed code (from the diffExtractor.py) is present in the local versions of Mozilla release 64-84
* i/p: Removed Code
* o/p: codeLocaliserChecker.csv

1. **File Localization Check –** fileLocalizationCheck.ipynb

* Checks if the file is present in the local versions of Mozilla release 64-84

1. **Files not found in version control –** filesNotFoundInVersionControl. ipynb

* If the file is present in the 1\_620\_till\_M\_v64\_labelData.xlsx but not present in codeLocaliserChecker.csv then it is stored in the filesNotFoundInVersionControl.csv

i/p: 1\_620\_till\_M\_v64\_labelData.xlsx, codeLocaliserChecker.csv

o/p: filesNotFoundInVersionControl.csv

**Task 2**

To get the dates for the version numbers

<https://www.mozilla.org/en-US/security/known-vulnerabilities/firefox/>