Exploration

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Purpose

To explore metrics options based on data collected by Software Quality Assurance in a spreadsheet for document review and approval.

Libraries used

No libriries used yet

#require(tidyverse)

Data

The data is presented n a CVS file (saved from an Excel workbook) with the following columns and data chartistics

SQA SQAE Preforming the review

Project ID Uniquie ID assigned to the project may come from NPV or ePAS

Application Application Name (limited selection)

Doc Version Version number of the document, also know as the revision number

Doc ID, if needed unique identifier to distingous between documnets fo the same deliver type within a project

Approver or Disapprov? Approval status from the following list

- * A Approved
- * A-FP Approved on fist pass
- * D Disapproved

Date of Approval or Disapproval Date action was taken

Reason for Disapproval: Selected from the following list

• Inaccurate information

- Incorrect scope
- Insufficient testing
- Insufficient traceability
- N/A
- Not compliant with procedure
- Not following configuration management
- Not following document version control
- Not using template
- Other
- Requirement deficiency

Inport the data

The data is read in and variables are assigned more programically useful names.

format the data

factors

Set the following data as factors:

```
*SQA
```

- *Application
- *Deliverable

```
FPA$sqa <- as.factor(FPA$sqa)
FPA$application <- as.factor(FPA$application)
FPA$deliverable <- as.factor(FPA$deliverable)
FPA$status <- as.factor(FPA$status)</pre>
```

^{*}status

Clean up reason

convert blank fields in status to NA when status is converted to a factor

```
FPA$reason <- as.factor(FPA$reason)</pre>
levels(FPA$reason)
## [1] ""
## [2] "Inaccurate information"
## [3] "Incorrect scope"
## [4] "Not compliant with procedure"
## [5] "Not following document version control"
## [6] "Requirement deficiency"
levels(FPA$reason)[1] <- NA</pre>
levels(FPA$reason)
## [1] "Inaccurate information"
## [2] "Incorrect scope"
## [3] "Not compliant with procedure"
## [4] "Not following document version control"
## [5] "Requirement deficiency"
Date
```

```
FPA$date <- as.Date(FPA$date, format = "%d-%B-%y")
```