Package: quallmer.app (via r-universe)

June 7, 2026

Title Interactive Validation App for 'quallmer'

Version 0.1.0

Description Companion package to 'quallmer' providing an interactive 'shiny' application for manual coding, reviewing large language model (LLM) generated annotations, and computing inter-rater reliability metrics. Supports three modes: blind manual coding, LLM output validation, and agreement calculation. Computes standard reliability metrics including Krippendorff's alpha (Krippendorff 2019 <doi:10.4135/9781071878781>), Cohen's kappa, Fleiss' kappa (Fleiss 1971 <doi:10.1037/h0031619>), intraclass correlation coefficient (ICC), and percent agreement for nominal, ordinal, interval, and ratio data. Also computes gold-standard validation metrics including accuracy, precision, recall, and F1 scores following Sokolova and Lapalme (2009 <doi:10.1016/j.ipm.2009.03.002>).

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Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.3

Imports quallmer (>= 0.3.0), shiny, bslib, dplyr, tidyr, irr, htmltools, cli, stats, utils

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

URL https://github.com/quallmer/quallmer.app

BugReports https://github.com/quallmer/quallmer.app/issues

Depends R (>= 3.5)

LazyData true

Config/pak/sysreqs cmake make libicu-dev libuv1-dev libssl-dev zlib1g-dev

Repository https://quallmer.r-universe.dev

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RemoteUrl https://github.com/quallmer/quallmer.app

RemoteRef HEAD

RemoteSha 6e883995651e2efcf30bd9d699b2adb1c1c32f3a

Contents

`qlm_app` *Launch the Quallmer Interactive App*

Description

Starts the Shiny app for manual coding, LLM checking, and validation / agreement calculation.

Usage

```
qlm_app(base_dir = getwd())
```

Arguments

`base_dir`	Base directory for saving uploaded files and progress. Defaults to current working directory. Use `tempdir()` for temporary storage (e.g., in examples or tests), but note that data will be lost when the R session ends.

Details

- In LLM mode, you can also select metadata columns.
- In Validation mode, select unit ID and coder columns (no text column), and optionally specify a gold-standard coder.

Value

A shiny.appobj

Examples

```
if (interactive()) {
  # Launch the app
  qlm_app()

  # Use a temporary directory (useful for testing)
  qlm_app(base_dir = tempdir())
}
```

`sample_data` *Sample Dataset for quallmer app*

Description

A sample dataset for demonstrating the quallmer app's validation functionality. Contains movie review texts coded by multiple coders with a gold standard.

Usage

```
sample_data
```

Format

A data frame with 20 rows and 6 variables:

.row_id Unique identifier for each text

text Movie review text

gold_sentiment Gold standard sentiment label (positive, negative, neutral)

coder1_sentiment Human coder's sentiment classification

coder2_sentiment LLM coder's sentiment classification (moderate accuracy)

coder3_sentiment Another LLM coder's sentiment classification (lower accuracy)

Details

This dataset is useful for:

- Testing inter-rater reliability calculations (using coder1, coder2, coder3)
- Testing gold-standard validation (using gold_sentiment as reference)
- Learning how to use the quallmer app
- Demonstrating nominal measurement level metrics

Examples

```
if (interactive()) {
  # Option 1: Use the pre-made sample file from the package
  # Get the path to the sample data file
  sample_file <- system.file("extdata", "sample_data.rds", package = "quallmer.app")

  # Launch the app and upload this file through the UI
  qlm_app()

  # Option 2: Load the data and save your own copy
  data(sample_data)
  saveRDS(sample_data, "my_sample.rds")
  # Then load my_sample.rds in qlm_app()
}
```

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