Package: measureR (via r-universe)

October 23, 2026

Title Tools for Educational and Psychological Measurement

Version 0.0.7

Date 2026-10-23

Description 'Provides an interactive toolkit for educational and psychological measurement implemented using the 'shiny' framework. The package supports content validity analysis, dimensionality assessment, and Classical Test Theory using the 'CTT' package (Willse, 2018) <doi:10.32614/CRAN.package.CTT>. Item Response Theory (IRT) analyses are conducted via 'mirt' (Chalmers, 2012) <doi:10.18637/jss.v048.i06>. Exploratory Factor Analysis is performed using 'psych' (Revelle, 2025), while Confirmatory Factor Analysis (CFA) and Structural Equation Modeling (SEM) are based on the 'lavaan' framework (Rosseel, 2012) <doi:10.18637/jss.v048.i02>. The CFA/SEM module features interactive model specification, ordinal indicators estimated from polychoric correlations, automatic model comparison, modification indices, comprehensive fit diagnostics, path diagram visualization, and HTML report generation. The application allows users to upload data, evaluate statistical models, visualize results, and export outputs through an intuitive graphical interface without requiring programming experience.

License MIT + file LICENSE

Depends R (>= 4.0.0)

Encoding UTF-8

Imports colourpicker, CTT, curl, htmltools, plotly, data.table, dplyr, DT, flextable, ggplot2, haven, httr, jsonlite, kableExtra, knitr, lavaan, magick, irr, mirt, officer, pdftools, psych, purrr, readr, readxl, rlang, rmarkdown, scales, semPlot, semptools, shiny, shinyBS, shinycssloaders, shinyWidgets, stats, stringr, tibble, tidyr, tidyverse, viridisLite, writexl

Suggests pkgdown, testthat (>= 3.0.0)

VignetteBuilder knitr

URL https://github.com/hdmeasure/measureR

BugReports https://github.com/hdmeasure/measureR/issues

Config/testthat/edition 3

Config/roxygen2/version 8.0.0

NeedsCompilation no

Config/pak/sysreqs libcairo2-dev cmake libfontconfig1-dev libfreetype6-dev libfribidi-dev libglpk-dev make libharfbuzz-dev libmagick++-dev gsfonts libicu-dev libjpeg-dev libpng-dev libtiff-dev libuv1-dev libwebp-dev libxml2-dev libssl-dev libpoppler-cpp-dev poppler-data libx11-dev zlib1g-dev

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

Date/Publication 2026-10-23 00:47:05 UTC

RemoteUrl https://github.com/hdmeasure/measurer

RemoteRef HEAD

RemoteSha 1e787c4062c7659fc5e5e31d359abb738f1d2468

Contents

measureR-package 2
run_measureR 3

Index **4**

`measureR-package` *Educational and Psychological Measurement Toolkit*

Description

Provides an interactive Shiny-based environment for educational and psychological measurement, supporting content validity, dimensionality assessment, Classical Test Theory (CTT), Item Response Theory (IRT), Exploratory Factor Analysis (EFA), Confirmatory Factor Analysis (CFA), and Structural Equation Modeling (SEM). All analyses are conducted through an intuitive graphical user interface without requiring users to write code.

This file records package-level imports for roxygen2 so that NAMESPACE will include the appropriate import directives.

Main Function

The primary entry point is `run_measureR`, which launches the full interactive application.

Author(s)

Maintainer: Hasan Djidu <hasandjidu@gmail.com> (ORCID)

Authors:

- Hasan Djidu <hasandjidu@gmail.com> (ORCID)

Other contributors:

- Heri Retnawati (ORCID) [contributor]

See Also

Useful links:

- https://github.com/hdmeasure/measureR
- Report bugs at https://github.com/hdmeasure/measureR/issues

---

`run_measureR` *Launch the measureR Shiny Application*

Description

This function starts the Shiny app included in the measureR package.

Usage

```
run_measureR()
```

Value

Launches a Shiny application (no return value)

Examples

```
is.function(run_measureR)
```

Index

measureR-package, 2

run_measureR, *2*, 3