Package 'measureR'

February 10, 2026

Title Tools for Educational and Psychological Measurement

Version 0.0.1

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 and Structural Equation Modeling are based on the 'lavaan' framework (Rosseel, 2012) <doi:10.18637/jss.v048.i02>. The application allows users to upload data, evaluate statistical models, visualize results, and export outputs through an intuitive graphical interface without requiring programming experience.

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Depends R (>= 4.0.0)

Encoding UTF-8

Imports colourpicker, CTT, data.table, dplyr, DT, ggplot2, lavaan, mirt, psych, purrr, readr, readxl, rlang, semPlot, semptools, shiny, shinyWidgets, stats, stringr, tibble, tidyr, tidyverse, viridisLite

Suggests knitr, pkgdown, rmarkdown, testthat (>= 3.0.0)

RoxygenNote 7.3.3

VignetteBuilder knitr

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

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

Config/testthat/edition 3

NeedsCompilation no

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Repository CRAN

Date/Publication 2026-02-10 21:40:02 UTC

Contents

`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)

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See Also

Useful links:

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

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`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)
```

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