# PROGRAM ARCHITECTURE

SHINY APPLICATION

UI

PROCESS

User input and
presentation of
processing output

VISUALISATION

User input and
presentation of
visualisation output

SERVER

① ② ④ ③ ⑥ ⑤ ⑦

PROCESS

Perform import &
processing

INSIGHT

Apply insight
function(s)

VISUALISATION

Create visualisation

R PACKAGE
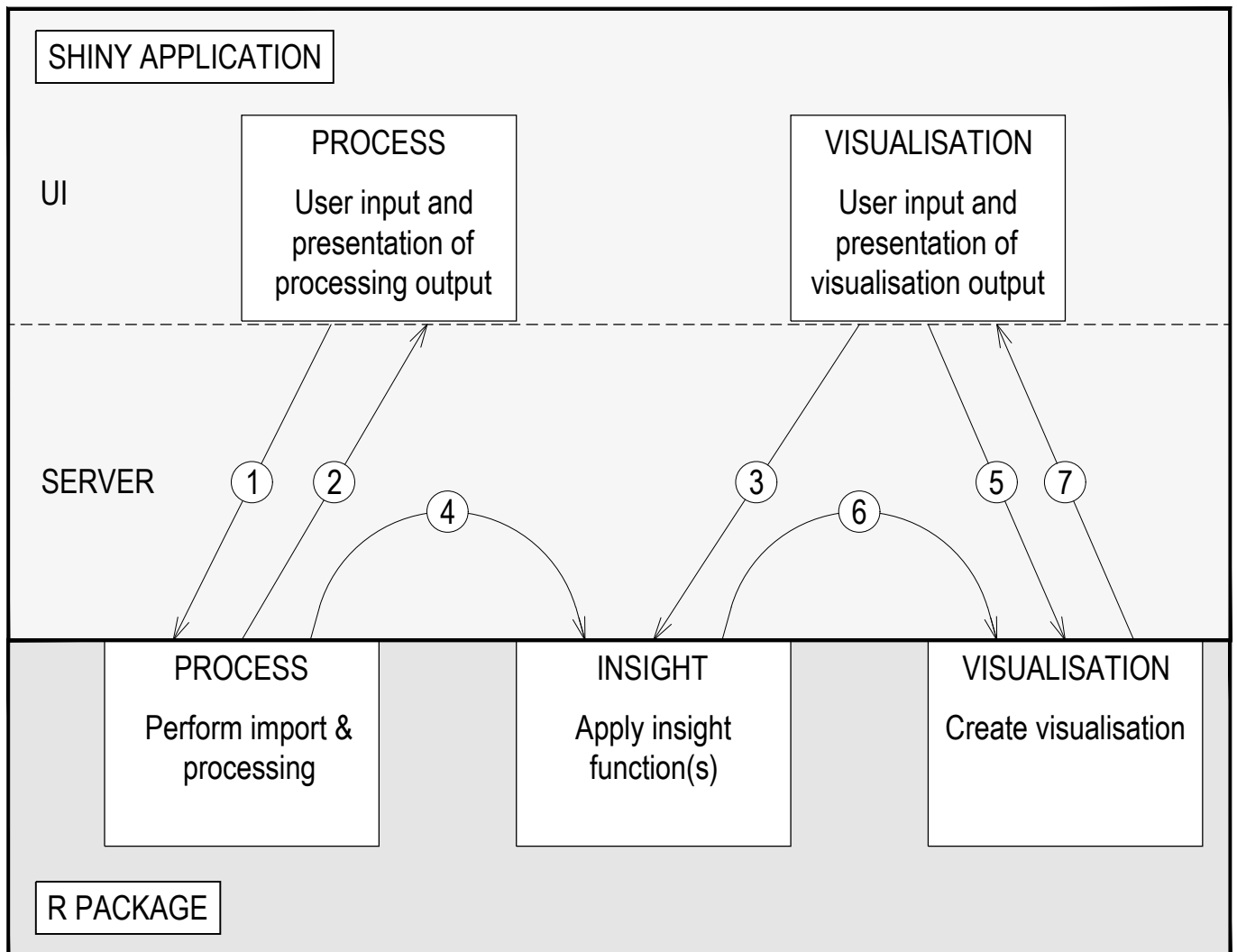
LEGEND

①  File name and processing options are selected in the user interface, and
are passed as arguments to the processing functions from the package.

②  The processing functions yield a processed dataframe, which is rendered
in the interface.

③  Insight options are selected in the interface, and passed as arguments to
the insight functions from the package.

④  The processed dataframe generated by the processing functions is sent
to the insight functions.

⑤  Visualisation options are selected in the interface, and passed as
arguments to the visualisation functions from the package.

⑥  The insight functions yield a dataframe containing insight measures,
which is sent to the visualisation functions.

⑦  The visualisation functions yield a ggplot object, which is rendered in the
interface.