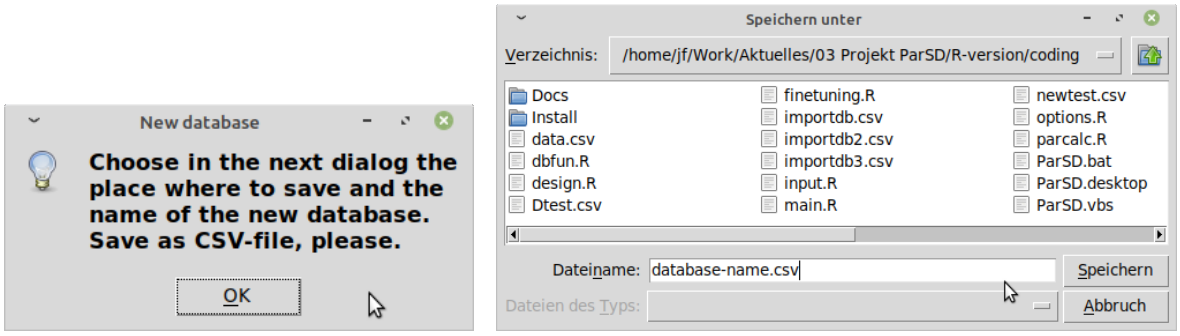
Create new database

After clicking to create a database and add a first material, the user is asked to enter the path and name for saving the database. The file extension has to be CSV of which the user is reminded by a message before choosing path and name, cf. Figure 1. It can be noted that the database is not created in this step, but only after a first material to include in the database was added.

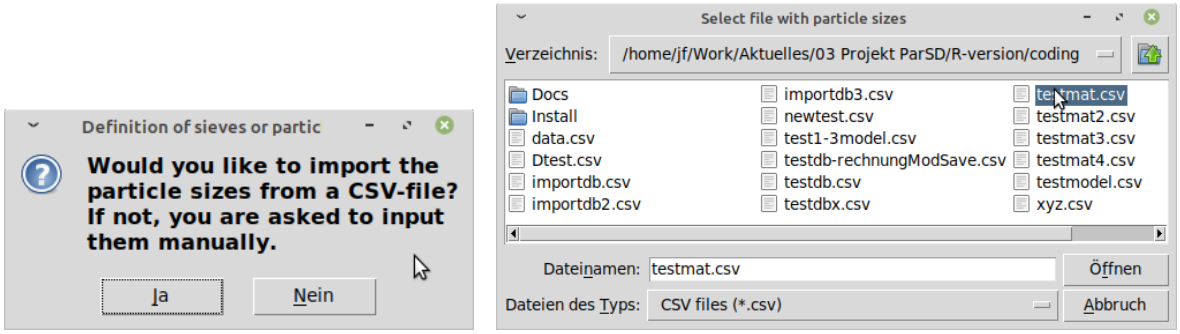


(a) Message CSV-extension

(b) Path and name definition of new database

Figure 1: Choosing path and name for saving the new database

For the later creation of the database, it is essential to define the sieve or component sizes. It is possible to import the component sizes or to input them manually—the user is asked to decide how to define the component sizes, cf. Figure 2(a). If the user chooses to import them, in the next step the CSV file has to be chosen (Figure 2(b)) which contains the component sizes in a separate column with the column head 'Diameter'. Furthermore, the sizes have to increase with increasing line number. Thus, it is possible to choose directly a prepared raw material file (an example is shown in Figure 3 in the Technical Documentation). The length units are defined in the database settings as explained in the section 'Main menu and settings' of the End User Documentation.



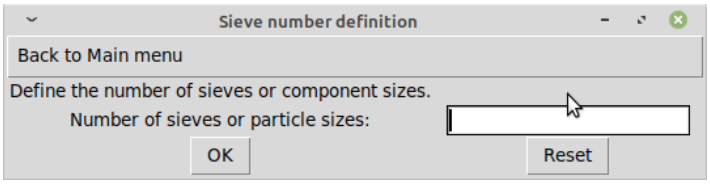
(a) How to define component sizes

(b) Choose file with component sizes

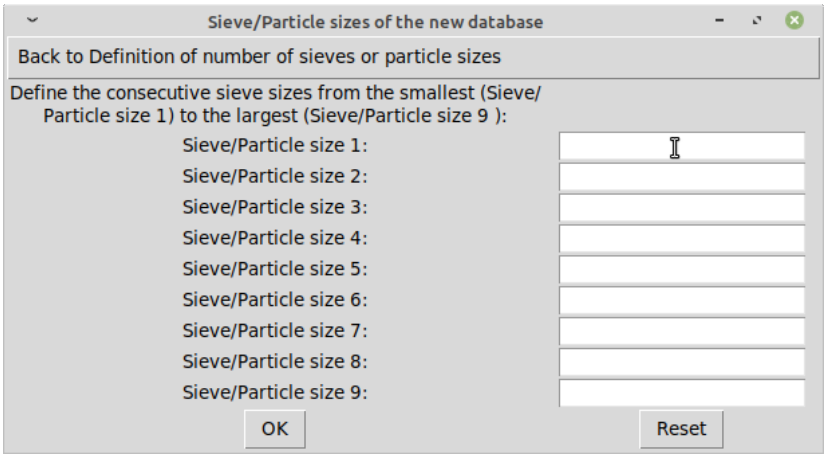
Figure 2: Import component sizes

If the user chooses to input the component or sieve sizes manually, firstly, the number of component sizes has to be defined, cf. Figure 3(a). Secondly then, the user is asked to input the compnent sizes, cf. Figure 3(b). The length units are defined in the database settings as explained in the section 'Main window and settings' of the End User Documentation.

After the first material was added, then, the database is created and saved.



(a) Define number of component sizes



(b) Define component sizes

Figure 3: Input of component sizes