# Wheelchair instruction builder

The purpose of this small app is to allow users to quickly choose a wheelchair configuration, from which the work order is copied onto the clip board in a consistent way. Additionally, part numbers are also automatically included without having to expect the user to look these up manually.

When opening the app, the following screen is displayed.

Graphical user interface, application

Description automatically generated

Firstly, choose the configuration you want based on the Model, Size, Propulsion, Delivery and Foot Plate Height dropdowns. Parts that are compatible with the chosen configuration are displayed in the parts list on the right. You can select parts on the right (left click on them) to select them, you can then add the part by clicking the add part button. Parts can be removed by selecting the part you wish to remove and click the Remove Part button. Each time you update the Text Output box the text is copy pasted onto your clipboard for copying. To clear the text output box simply choose (or re-choose) a model.

The wheelchair instruction builder takes in 4 files.

* DeliveryMethods
  + A file that contains a list of the delivery options available
* Footplates
  + A file that contains a list of the foot plate lengths available.
* Wheelchairs
  + A file that contains a list of wheelchair configs
* Parts
  + A file that contains the parts and the rules as to what wheelchairs they are compatible with.

When editing any of the above files, open them in excel and be sure to save them as Tab Delimited files.

## Application, table Description automatically generatedAdding New Wheelchairs

1. Open the Wheelchairs file in excel.
2. Each line corresponds to a wheelchair.
3. For your new wheelchair add in the details under the correct header.
4. Graphical user interface

   Description automatically generatedSave the file as a tab delimited file, (if you opened the file included in excel ctrl-s will automatically save it as a tab delimited file).
5. The new chair will now show up in the app.

## Adding New Parts

1. Open the parts file in excel.
2. Each line corresponds to one part.
3. Fill out the line with your new part, an explanation of each of the headers is provided in the table below.

|  |  |
| --- | --- |
| Header | Description |
| Part Name | The name of the part |
| Part Number | The part number |
| Category | The category of the part (used for display purposes only, the same categories are grouped for ease of display) |
| Compatible Chairs | A comma separated list of compatible chairs (eg: A, B, C). Names must be identical to those in the Wheelchairs file. |
| Width | Compatible widths (see Compatible Widths and Depths section for more details) |
| Depth | Compatible Depths (see Compatible Widths and Depths section for more details) |
| Propulsion | A comma separated list of compatible propulsions type. |
| Incompatible Parts | A comma separated list of incompatible parts; a warning is displayed if an incompatible part is added. |
| Max Counts | The max number of this part that can be added, a warning is shown if this value is exceeded. |

1. Graphical user interface, application, table, Excel

   Description automatically generatedThe new part will now show up in the app with the specified restrictions
   1. Eg: the “New Part” is only compatible with the “New Chair” model and when the width and depth is larger than 8.

Graphical user interface

Description automatically generated

# Compatible Widths and Depths

The width and depth fields discussed above have some special characters that can be used to dictate some rules. This allows the user to specify more complex compatibility rules between parts and chairs.

* By entering a number eg: 5 this means that chairs that are equal to that width or depth (depending on the column) will display this part.
* By entering > prior to the number eg: >5 will show this part if the chairs width or depth is greater than this value.
* By entering >= prior to the number eg: >=5 will show this part if the chairs width or depth is greater or equal to this value.
* By entering < prior to the number eg: <5 will show this part if the chairs width or depth is less than this value.
* By entering <= prior to the number eg: <=5 will show this part if the chairs width or depth is less or equal to this value.
* By entering ! prior to the number eg: !5 will show this part if the chairs width or depth is not equal to this value.
* By leaving this field blank there is no dependence on the width or depth on this part displaying.