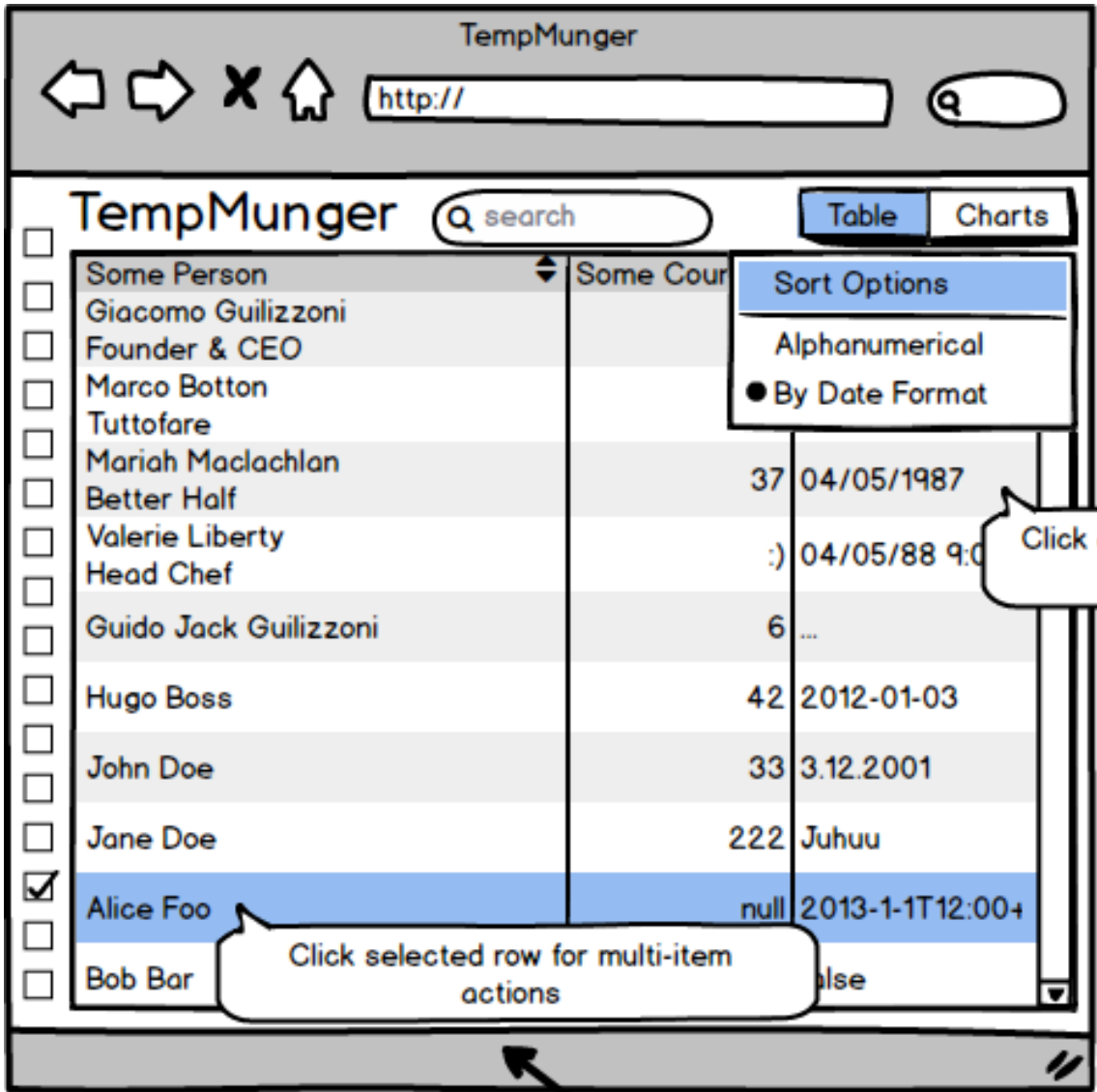


Upload modal dialog:

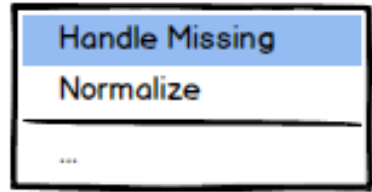
- As simple as possible
- Just dragging & dropping file or opening via FS dialog



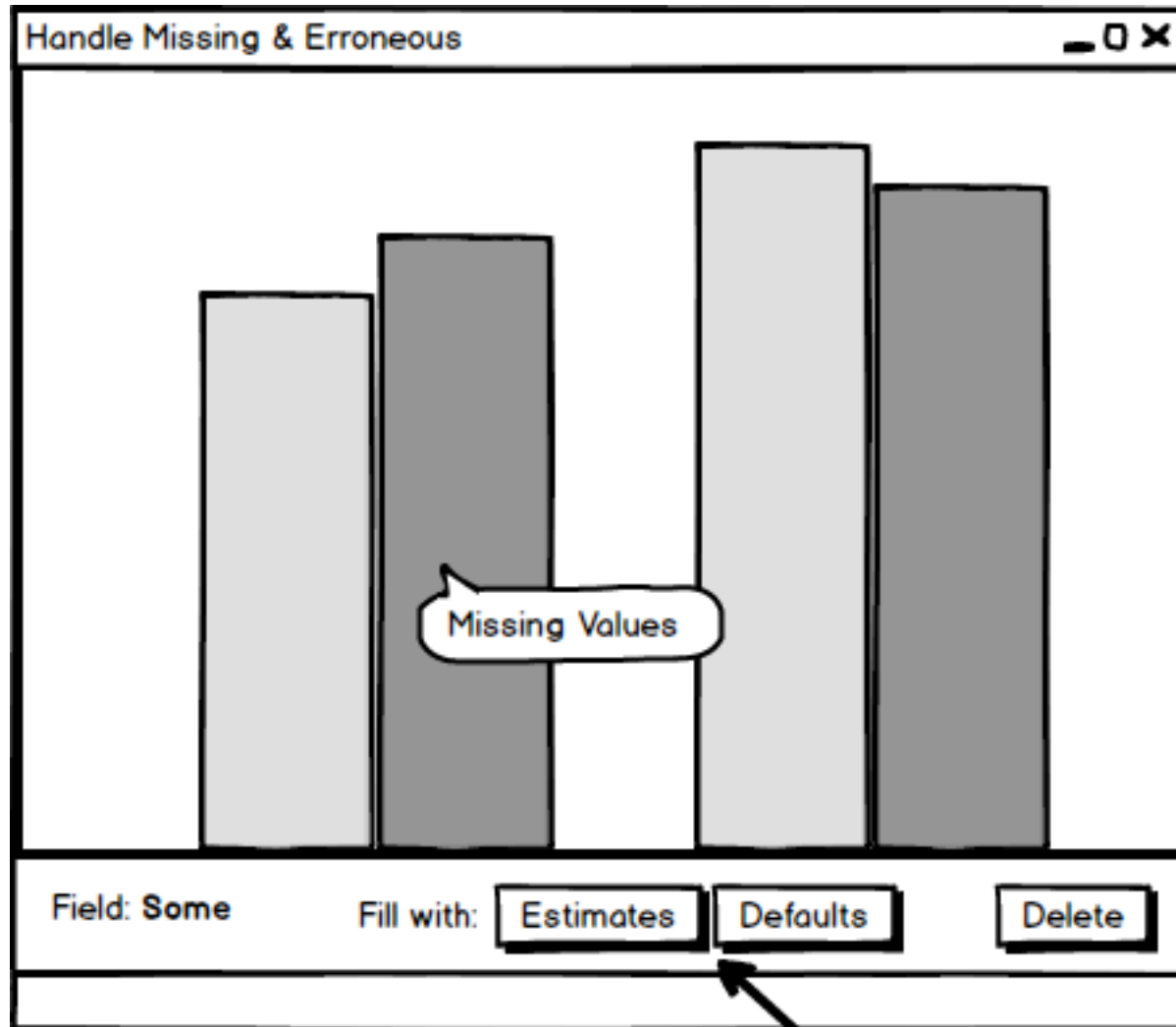
### Main UI components:

- Tabs to switch between tabular and chart views
- Search box input field to filter displayed data
- Sortable columns via header arrow control
  - Directly editable data by entering cells
  - Datetimepicker controls could be useful
- Interaction hints via tooltips => (right-)click...

### Exemplary datepicker control

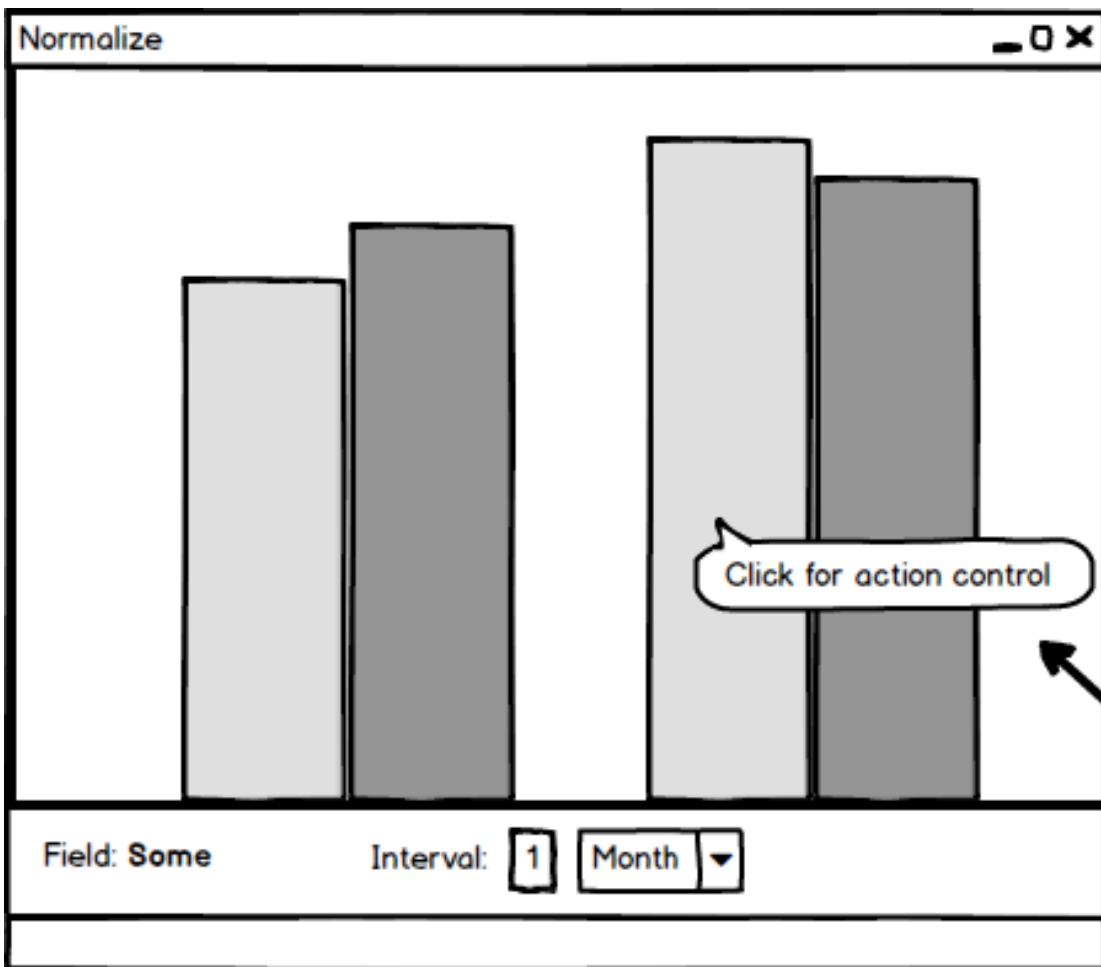


Opens relevant (bar) chart view as modal overlay dialog presenting distribution and offering interactive choice



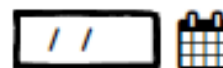
Handle missing & erroneous values:

- Via modal overlay chart dialog
- Shows data distribution via bar chart
- Offers interactive choice



**Normalize:**

- Via modal overlay chart dialog
- Shows data distribution according to interval
- Intervals can be interactively adjusted and transformed



Choose target interval/value resp. related format



TempMunger

http://

TempMunger search

Table Charts

	Some Person	Some Count	A Timestamp
<input type="checkbox"/>	Giacomo Guilizzoni	37	2018-03-12
<input type="checkbox"/>	Founder & CEO		
<input type="checkbox"/>	Marco Botton	34	
<input type="checkbox"/>	Tuttofare		
<input type="checkbox"/>	Mariah MacLachlan	37	04/05/1987
<input type="checkbox"/>	Better Half		
<input type="checkbox"/>	Valerie Liberty	:)	04/05/88 9:00
<input type="checkbox"/>	Head Chef		
<input type="checkbox"/>	Guido Jack Guilizzoni	6	...
<input type="checkbox"/>	Hugo Boss	42	2012-01-03
<input type="checkbox"/>	John Doe	33	3.12.2001
<input type="checkbox"/>	Jane Doe	222	Juhuu
<input type="checkbox"/>	Alice Foo	null	2013-1-1T12:00+
<input type="checkbox"/>	Bob Bar	3.4	false

### Merging time-oriented data columns:

- Dragging and dropping column headers
- Opens dialog for further interaction options...

### Extracting time-oriented data columns:

- Right-clicking column header
- Opens dialog for further interaction options...

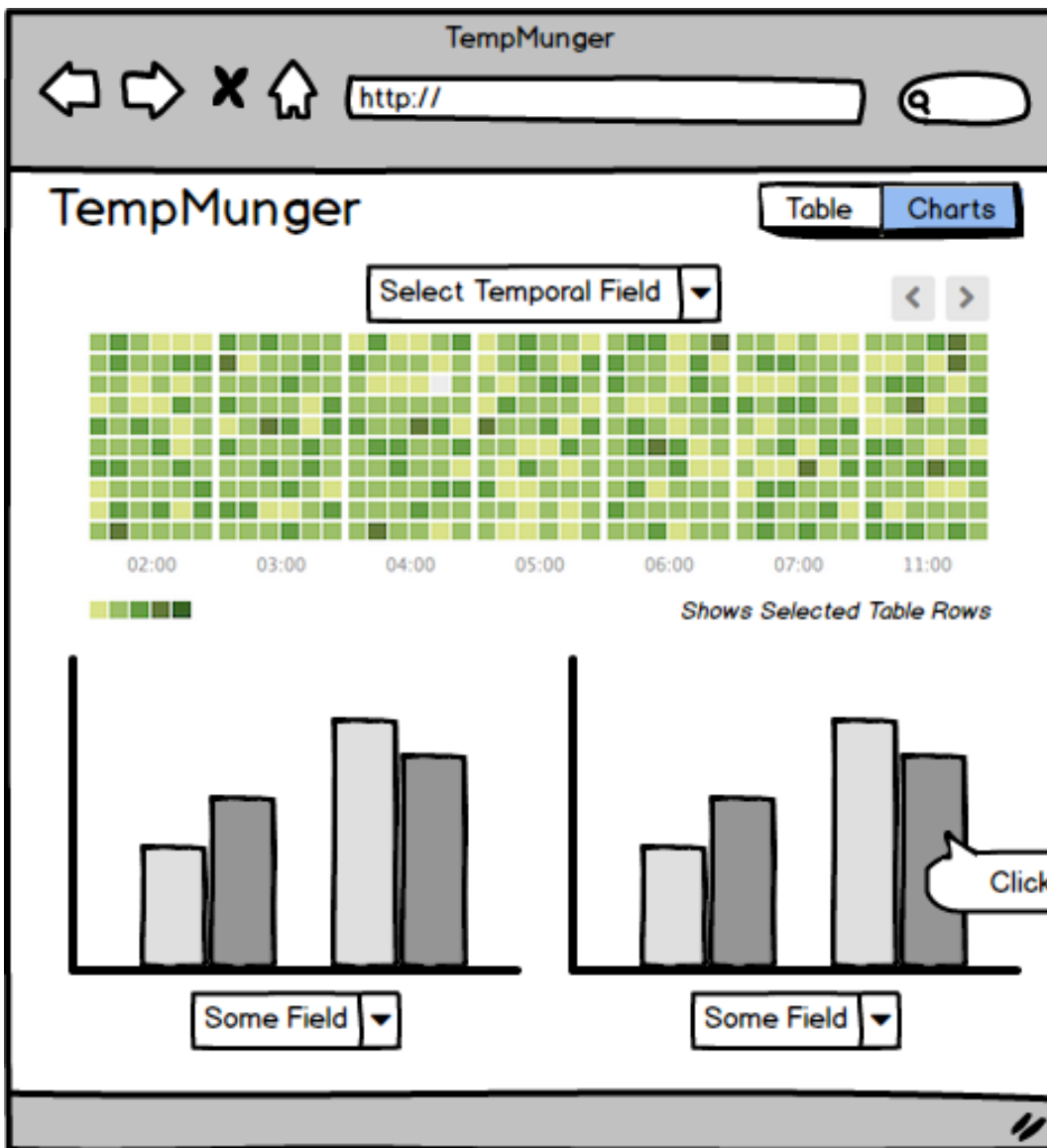
#### Merge Columns...

- ☒ Unifying Format
- Estimating Missing
- ☒ Setting Defaults
- Deleting Erroneous

#### Extract Column By...

- Extracting Date
- ☒ Extracting Time

--> Relevant (bar) chart view presents distribution and offers choice (via modal overlay dialog)



### Charts page:

- Data can be manipulated interactively via **point & click...**
- Connected display to selected table rows and vice versa
- **Calendar heatmap** visualization for selected temporal field
- Its granularity of temporal interval scale can be adjusted
- Selected interval ranges of data points can be deleted
- **Distribution** of field values visualized via aggregated bars
- Two distribution charts next to each other for comparisons
- Visualized field can be chosen via dropdown at the bottom

Delete Selected  
Normalize

...



Choose target value resp. format for normalization  
(Option present in case temporal field selected)