

sÜber Gantt

Input:

- A general configuration, containing:
 - The regular working days
 - The regular “output” of a generic resource
 - public holidays
- A number of tasks, each with:
 - a given duration (in hours!)
 - Optional: A number of predecessors
 - Optional: A “start earliest” date
 - Optional: The number of generic resources planned
- A number of resources, each with a given “output” of “duration units” per calendar duration
- A number of resource assignments, with:
 - A resource that is being assigned
 - A percentage, telling us how much of the resource’s output is to be spent on the assignment
 - Does this make sense?
- A calendar, that tells us when a given resource has a different availability (i.e. when the output is different)

Output:

- A Gantt Chart, showing how the tasks interact and how long they take in calendar time, assuming they are processed using generic resources
- A Gantt Chart, showing how the tasks interact and how long they take in calendar time, assuming they are processed **only** by the resources assigned to them. Further, the actual assigned workforce is to be displayed (i.e. if they were generic resources.)
- A chart showing the load of each resource over the course of time.

Project Format (JSON):

```
{
  "general": {
    "working_days": ["mo", "tue", "wed", "thu", "fri"],
    "regular_output" : 40,          // Should probably be minutes instead of hours
here!
  }
  "tasks": [
    {
      "id": 0,
      "duration": 420,              // Should probably be minutes instead of hours.
      "label": "Some task!",
      "planned_resources": 3.0, // i.e. 3.0 * "regular_output"
      "earliest_start_date": "2023-06-08"
    },
    {
      "id": 1,
      "duration": 540,              // Should probably be minutes instead of hours.
      "label": "Another task",
      "planned_resources": 3.0, // i.e. 3.0 * "regular_output"
      "earliest_start_date": "2023-06-08",
      "predecessors": 0 // this will shift the startdate to "after the
predecessor is done."
    }
  ]
}
```

```
"resources": [  
  {  
    "id": 0,  
    "label": "A Resource Name",  
    "output": 32,      // i.e. an 80% worker  
  }  
]  
  
"assignments": [  
  {  
    "task": 0,  
    "resource": 0,  
    "percentage": 50   // in percent, this would mean 32 * 50%  
  }  
]  
}
```