# 1. Introduction and goals

## 1.1 Requirements overview

The TaskPlanner needs to be able to

* Ability to add new tasks and labels
* Categorize tasks using labels quickly
* Plan tasks according to a certain planning strategy
* Prioritize tasks
* Schedule tasks

## 1.2 Quality goals

1. The TaskPlanner is fast and easy to use.
2. The TaskPlanner can handle 100k tasks + tags without slowing down.
3. The TaskPlanner can export the Tasks to other formats (e.g. MarkDown)

# 2. Constraints

The TaskPlanner should be

* Be able to run without a backend server, so run in the browser only
* Versioned, otherwise a good point in time can be lost

# 4. Solution strategy (how to satisfy 1 and 2)

- Fundamental decisions and solution strategies

- Technology decisions (React, react-create-app)

- Top level decomposition decisions (front-end only)

- How to achieve Key Quality Goals?

|  |  |  |  |
| --- | --- | --- | --- |
| Quality goal | Scenario | Solution approach | Link to details |
|  | \* what belongs in here?\* |  |  |
|  |  |  |  |
|  |  |  |  |

# 5. Building block view

## 5.1 Whitebox overall system

## 5.2 Level 2

## 5.3 Level 3

# 6. Runtime view

## 6.1 Runtime scenario

# 7. Deployment view

## 7.1 Infrastructure level 1

## 7.2 Infrastructure level 2

# 8. Concepts

# 9. Architecture decisions

# 10. Quality

## 10.1 Quality requirements

## 10.2 Quality scenarios

# 11. Risks and technical debt

# 12. Glossary

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| --- | --- | --- |
| Term | Domain | Definition |
| Goals/Task/Todo | UI | A measure of progress that can be progressed towards, or completed. |
| Tag | UI | A way to categorize the tasks, that isn’t based on causal dependency or progress metrics. Can be  - preconditions on progress  - types of activities  - people involved  - status |
| Planning | UI | Marking a task as important enough to do in the near future |
| Scheduling | UI | Allocating a time slot for progress towards this goal. |
| Finished | UI | Either:  - completed  - impossible  - irrelevant |
| Unfinished | UI | …. |
|  |  |  |