

Requirement Specification for Project and Teamorganisation Tool (PaTT)

August 12, 2025

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1 SEC-0001: General

1.1 REQ-0001: Task

The application shall have multiple tasks

1.2 REQ-0002: User

The application shall have multiple users

1.3 REQ-0003: Project

The application shall have multiple projects

1.4 REQ-0013: Userinterface

The application shall have a userinterface

2 SEC-0002: Definitions for user

2.1 REQ-0004: Username

A user shall have a username

Reason Authentication

2.2 REQ-0005: Password

A user shall have a password

Reason Authentication

2.3 REQ-0006: E-Mail

A user shall have an emailaddress

Reason Give information to a user which is not currently using the userinterface

2.4 REQ-0038: threshold_very_soon

The `user_profile` object shall be able to hold the Infomation `threshold_very_soon` with the following values: 1 day, 2 days, 3 days, 4 days, 5 days, 7 days, 9 days, 12 days

Reason Information for the sorting criteria `warning_group`

2.5 REQ-0039: threshold_soon

The user object shall be able to hold the Infomation threshold_soon with the following values: 1 day, 2 days, 3 days, 5 days, 7 days, 10 days, 14 days, 21 days

<i>Reason</i>	Information for the sorting criteria warning_group
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3 SEC-0003: project Fields

3.1 REQ-0007: Projectname

A project shall have a projectname

<i>Reason</i>	Definition of a short identification for the Project.
<i>Fitcriterion</i>	projectname exists in project and can hold a string

3.2 REQ-0008: Projectdescription

A project shall have a projectdescription

<i>Reason</i>	Definition of additional information for the Project.
<i>Fitcriterion</i>	projectdescription exists in project and can hold a string

3.3 REQ-0026: State

A project shall have a projectstate with the following possible values: "TBD, ..."

3.4 REQ-0009: Projectrole Leader

A project shall have the projectrole role_leader

3.5 REQ-0012: Projectrole Member

A project shall have the projectrole role_member

<i>Reason</i>	Default value for Task generation
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3.6 REQ-0033: Projectrole Visitor

A project shall have the projectrole role_visitor

4 SEC-0004: Description for projectrole

4.1 REQ-0011: Userlist

A projectrole shall hold multiple users

Reason Define Members for the different projectroles

5 SEC-0005: task Fields

5.1 REQ-0014: state

A task shall have a state with the following possible values: "open, in progress, finished, closed"

5.2 REQ-0015: priority

A task shall have a priority with the following possible values: 1, 2, 3, 4, 5 ,6, 7

5.3 REQ-0016: targetdate

5.4 REQ-0017: progress

5.5 REQ-0018: description

5.6 REQ-0019: comments

5.7 REQ-0020: appraisals

Just for Projectleader or Superuser (TBD)

5.8 REQ-0031: assigned_user

A task shall have one assigned_user. The assigned_user needs to have a role in the related project.

5.9 REQ-0032: History

The tasks change history shall be fully stored.

Reason Implementation of a view for the projectleaders to inspect all changes from creation till now.

6 SEC-0006: Permission definitions for tasks

6.1 REQ-0027: read permission

If the user has read permissions, all task fields (except of the appraisals) shall be visible.

6.2 REQ-0024: limited_modify permission

If the user has `limited_modify` permission, the fields `progress`, `description`, `comment` shall be fully editable and the `filed` state shall be editable, if the state is one of "open, closed", and the `targetstates` shall be limited to "open, closed".

6.3 REQ-0023: add_comment permission

The user shall be able to add a comment, if `add_comment` permissions are given.

6.4 REQ-0025: create permission

The user shall be able to create a task, if `create` permissions are given.

6.5 REQ-0028: modify permission

All task fields (except of the comment, appraisal) shall be editable, if the user has `modify` permission.

6.6 REQ-0029: modify_comment permission

The task field `comment` shall be editable, if the user has `modify_comment` permission.

7 SEC-0007: Access rules for task

7.1 REQ-0034: read permissions

A user shall have read permission, if he is a superuser or (user is the `assigned_user` and the current task state is one of "open, closed") or (has a role in the related project and is a staffuser).

7.2 REQ-0035: limited_modify permission

A user shall have `limited_modify` permission, if he is the `assigned_user` and is a staffuser and the current task state is one of "open, closed".

7.3 REQ-0022: modify permission

A user shall have modify permission, if he is a superuser or (has the role `role_leader` in the related project and is a staffuser).

7.4 REQ-0030: add_comment permission

A user shall have add_comment permission, if he is a superuser or (has one of the roles `role_leader`, `role_member` in the related project and is a staffuser and the current task state is one of "open, closed").

7.5 REQ-0036: create permission

A user shall have create permission, if he has at least in one project a role and is staffuser.

7.6 REQ-0037: modify_comment permission

A user shall have modify_comment permission, if he is a superuser or (has the role `role_leader` in the related project and is a staffuser).

8 SEC-0008: task sorting

8.1 REQ-0041: Sorting criterias and prioreties

A tasklist shall be sorted by the following documented sorting criterias. The sorting order shall be the same as the criteria order in this document.

Reason Tasklist shall be sorted in a user friendly order.

8.2 REQ-0040: 1st sort criteria shall be warning_group

The sorting shall be in the order as the listed warning-groups:

- **overdue**: If the `days_before_targetdate = 0`
- **very_soon**: If the `days_before_targetdate = assigned_user.threshold_very_soon`
- **soon**: If the `t days_before_targetdate = assigned_user.threshold_soon`
- **default**: In all other cases
- **done**: If the task is in one of the following states: "canceled, closed, finished" (independent from the other group definitions)

Reason Tasklist shall be sorted in a user friendly order.

8.3 REQ-0042: 2nd sort criteria shall be priority

Highest priority (1) first.

Reason Tasklist shall be be sorted in a user friendly order.

8.4 REQ-0043: 3rd sort criteria shall be days_before_targetdate

Lowesr value of days_before_targetdate first.

Reason Tasklist shall be be sorted in a user friendly order.

8.5 REQ-0046: 4th sort criteria progress

Lowest progresss first.

Reason Tasklist shall be be sorted in a user friendly order.

8.6 REQ-0047: 5th sort criteria name

Alphabetic sorting.

Reason Tasklist shall be be sorted in a user friendly order.

9 SEC-0009: Userinterface

9.1 REQ-0021: State Types

REQ-21