

Requirement Specification for  
Project And Teamorganisation Tool (PATT)

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## 1 General

### 1.1 REQ-1: Task

The <application> shall have multiple <task>s

### 1.2 REQ-2: User

The <application> shall have multiple <user>s

### 1.3 REQ-3: Project

The <application> shall have multiple <project>s

### 1.4 REQ-13: Userinterface

The <application> shall have a <userinterface>

## 2 Definitions for <user>

### 2.1 REQ-4: Username

A <user> shall have a <username>

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*Reason* Authentication

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### 2.2 REQ-5: Password

A <user> shall have a <password>

---

*Reason* Authentication

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### 2.3 REQ-6: E-Mail

A <user> shall have an <emailaddress>

---

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

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### 2.4 REQ-38: <threshold\_very\_soon>

The <user\_profile> object shall be able to hold the Information <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>

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## 2.5 REQ-39: <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

---

*Reason* Information for the sorting criteria <warning\_group>

---

## 3 <project> Fields

### 3.1 REQ-7: Projectname

A <project> shall have a <projectname>

---

*Reason* Definition of a short identification for the Project.

*Fitcriterion* <projectname> exists in <project> and can hold a string

---

### 3.2 REQ-8: Projectdescription

A <project> shall have a <projectdescription>

---

*Reason* Definition of additional information for the Project.

*Fitcriterion* <projectdescription> exists in <project> and can hold a string

---

### 3.3 REQ-26: State

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

### 3.4 REQ-9: Projectrole Leader

A <project> shall have the <projectrole> <role\_leader>

### 3.5 REQ-12: Projectrole Member

A <project> shall have the <projectrole> <role\_member>

---

*Reason* Default value for Task generation

---

### 3.6 REQ-33: Projectrole Visitor

A <project> shall have the <projectrole> <role\_visitor>

## 4 Description for <projectrole>

### 4.1 REQ-11: Userlist

A <projectrole> shall hold multiple <user>s

---

*Reason* Define Members for the different projectroles

---

## 5 <task> Fields

### 5.1 REQ-14: <state>

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

### 5.2 REQ-15: <priority>

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

### 5.3 REQ-16: <targetdate>

### 5.4 REQ-17: <progress>

### 5.5 REQ-18: <description>

### 5.6 REQ-19: <comment>s

### 5.7 REQ-20: <appraisal>s

Just for Projectleader or Superuser (TBD)

### 5.8 REQ-31: <assigned\_user>

A <task> shall have one <assigned\_user>. The <assigned\_user> needs to have a role in the related project.

### 5.9 REQ-32: History

The <task>s change history shall be fully stored.

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*Reason* Implementation of a view for the <projectleader>s to inspect all changes from creation till now.

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## 6 Permission definitions for <task>s

### 6.1 REQ-27: <read> permission

If the <user> has <read> permissions, all <task> fields (except of the <appraisal>s) shall be visible.

### 6.2 REQ-24: <limited\_modify> permission

If the <user> has <limited\_modify> permission, the fields <progress, description, comment> shall be fully editable and the field <state> shall be editable, if the state is one of "open, closed", and the target<state>s shall be limited to "open, closed".

### 6.3 REQ-23: <add\_comment> permission

The <user> shall be able to add a comment, if <add\_comment> permissions are given.

### 6.4 REQ-25: <create> permission

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

### 6.5 REQ-28: <modify> permission

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

### 6.6 REQ-29: <modify\_comment> permission

The <task> field <comment> shall be editable, if the <user> has <modify\_comment> permission.

## 7 Access rules for <task>

### 7.1 REQ-34: <read> permissions

A <user> shall have <read> permission, if he is a super<user> 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 staff<user>).

### 7.2 REQ-35: <limited\_modify> permission

A <user> shall have <limited\_modify> permission, if he is the <assigned\_user> and is a staff<user> and the current <task> <state> is one of "open, closed".

### 7.3 REQ-22: <modify> permission

A <user> shall have <modify> permission, if he is a super<user> or (has the has the role <role\_leader> in the related <project> and is a staff<user>).

### 7.4 REQ-30: <add\_comment> permission

A <user> shall have <add\_comment> permission, if he is a super<user> or (has one of the roles <role\_leader, role\_member> in the related <project> and is a staff<user> and the current <task> <state> is one of "open, closed").

### 7.5 REQ-36: <create> permission

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

### 7.6 REQ-37: <modify\_comment> permission

A <user> shall have <modify\_comment> permission, if he is a super<user> or (has the has the role <role\_leader> in the related <project> and is a staff<user>).

## 8 <task> sorting

### 8.1 REQ-41: 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 be sorted in a user friendly order.

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### 8.2 REQ-40: 1st sort criteria shall be <warning\_group>

The sorting shall be in the order as the listed <warning\_group>s:

- <overdue>: If the <days\_before\_targetdate> <= 0
- <very\_soon>: If the <days\_before\_targetdate> <= <assigned\_user>.<threshold\_very\_soon>
- <soon>: If the <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)

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

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### 8.3 REQ-42: 2nd sort criteria shall be <priority>

Highest <priority> (1) first.

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

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### 8.4 REQ-43: 3rd sort criteria shall be <days\_before\_targetdate>

Lowest value of <days\_before\_targetdate> first.

---

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

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### 8.5 REQ-46: 4th sort criteria <progress>

Lowest <progress> first.

---

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

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### 8.6 REQ-47: 5th sort criteria <name>

Alphabetic sorting.

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

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## 9 Userinterface

### 9.1 REQ-21: State Types

REQ-21