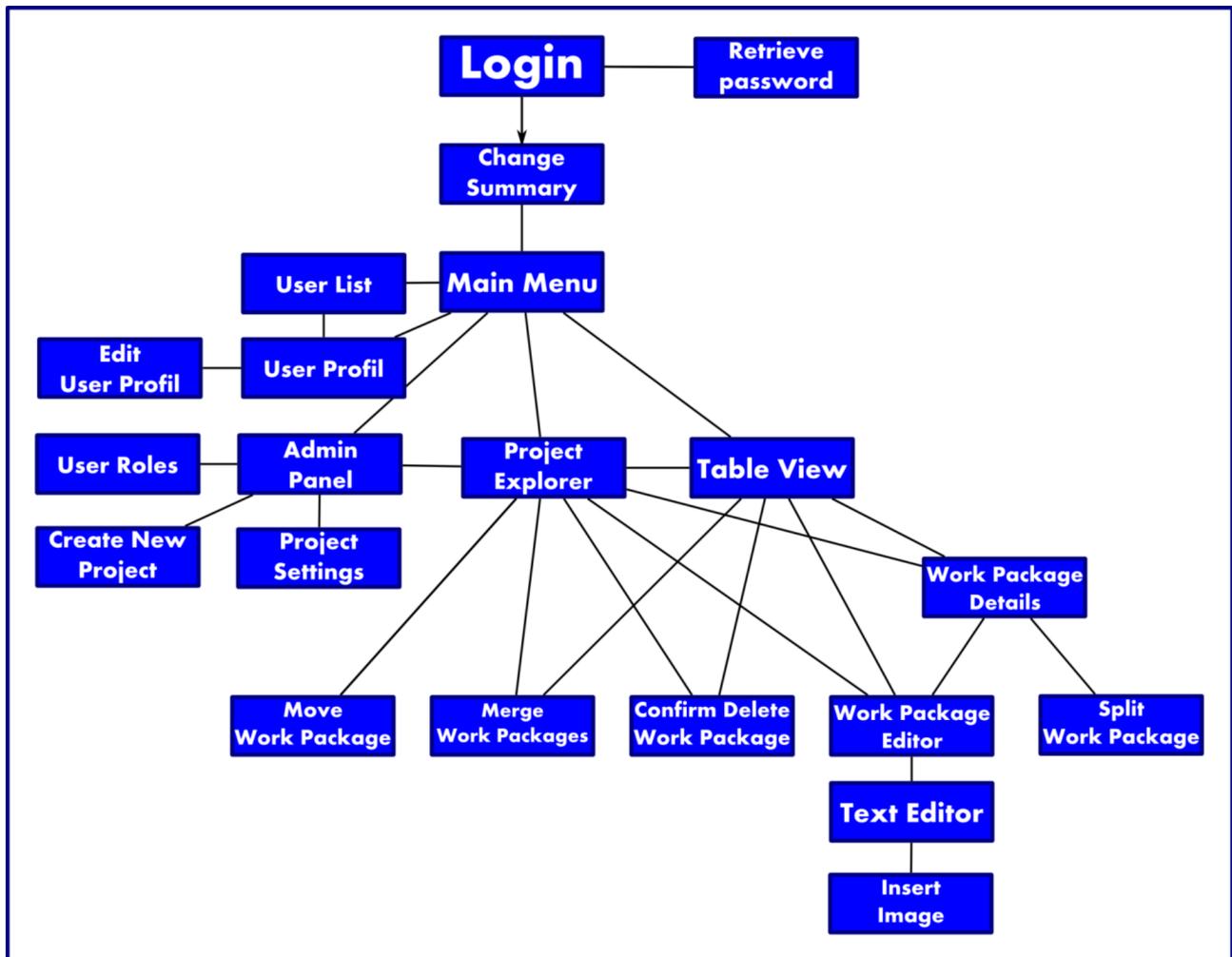


*General flow of the graphical user interface:*



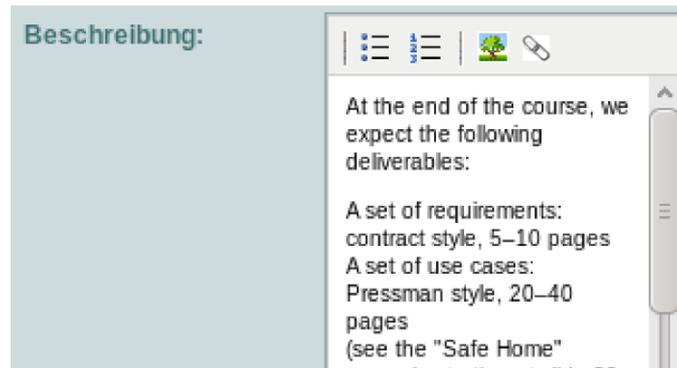
## Graphics for the use cases

### 3.1 Add work package description

Titel:	<input type="text"/>
Partner:	<input type="text"/> <input type="button" value="Bitte wählen"/>

### 3.2 Insert cross-link

To add a cross-link to another work package, on the editor screen click on the chain icon:

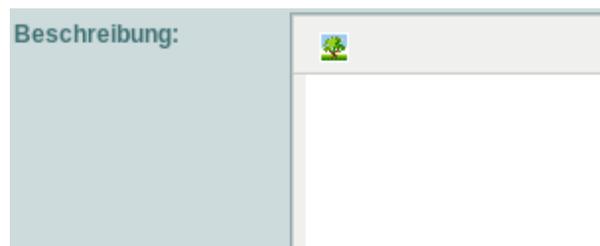


The click opens a dialog box with a drop-down menu to choose a package.(See 3.18)

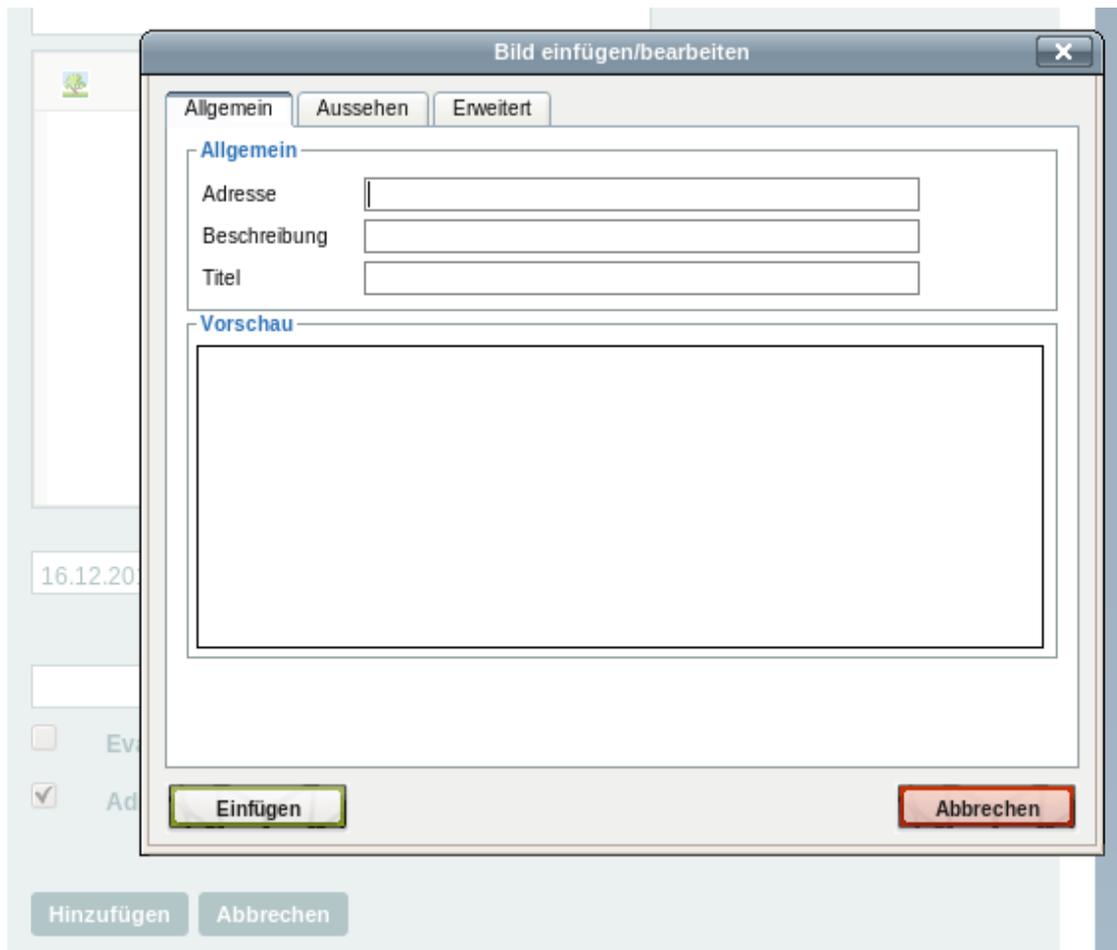
The link is stored in the database and an special id is added to the text, to mark the position of the reference.

### 3.3 Insert image

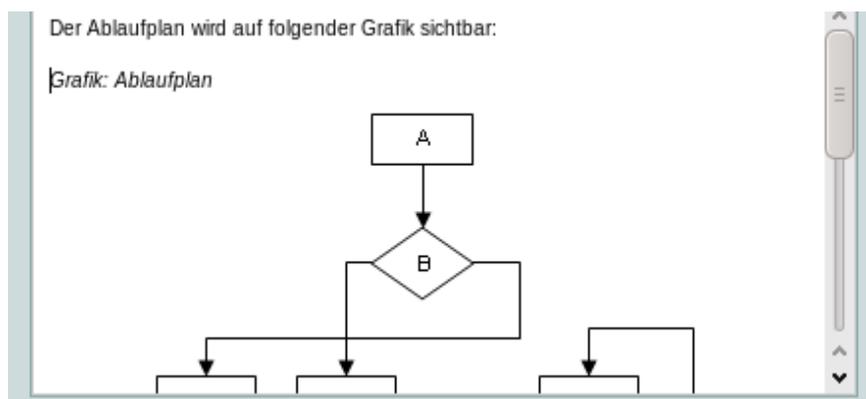
Form field with button for image insertion:



Form for the specification of the file location and the image's caption:

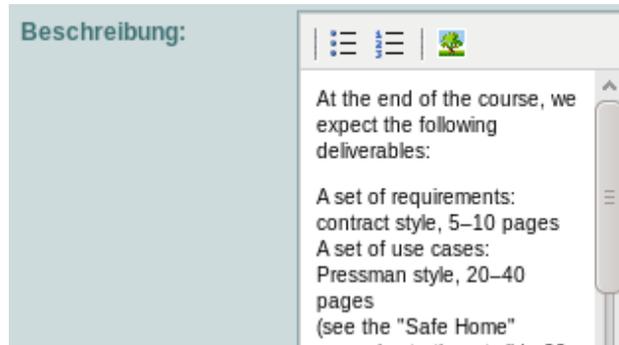


Inserted image:

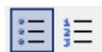


### 3.4 Insert list

Form field with buttons for list insertion:



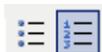
Activation of the bullet list icon:



Insertion of a bullet list:

- At the end of the course, we expect the following deliverables:
- A set of requirements: contract style, 5-10 pages
  - A set of use cases: Pressman style, 20-40 pages (see the "Safe Home" example starting at slide 29 in the [slides](#) of the lecture on Requirements Engineering)
  - A GUI design: covering most of the use cases
  - Architectural models and data models: covering most of the use cases
  - An executable prototype: covering 5-95% of the use cases (negotiable)

Activation of the numbered list icon:



Insertion of a numbered list:

- At the end of the course, we expect the following deliverables:
1. A set of requirements: contract style, 5-10 pages
  2. A set of use cases: Pressman style, 20-40 pages (see the "Safe Home" example starting at slide 29 in the [slides](#) of the lecture on Requirements Engineering)
  3. A GUI design: covering most of the use cases
  4. Architectural models and data models: covering most of the use cases
  5. An executable prototype: covering 5-95% of the use cases (negotiable)

### 3.5 Add attachment

Form fields for attaching a file:

Titel des Anhangs:	<input type="text"/>
Dateianhang:	<input type="text"/> <input type="button" value="Bitte wählen"/>

Display of an existing attachment, e.g. in a work package description ("Mein Anhang" is a download link):



### 3.6 Generate output

There is a button in the administration view that triggers the output generation. The format can be chosen through a drop down menu.

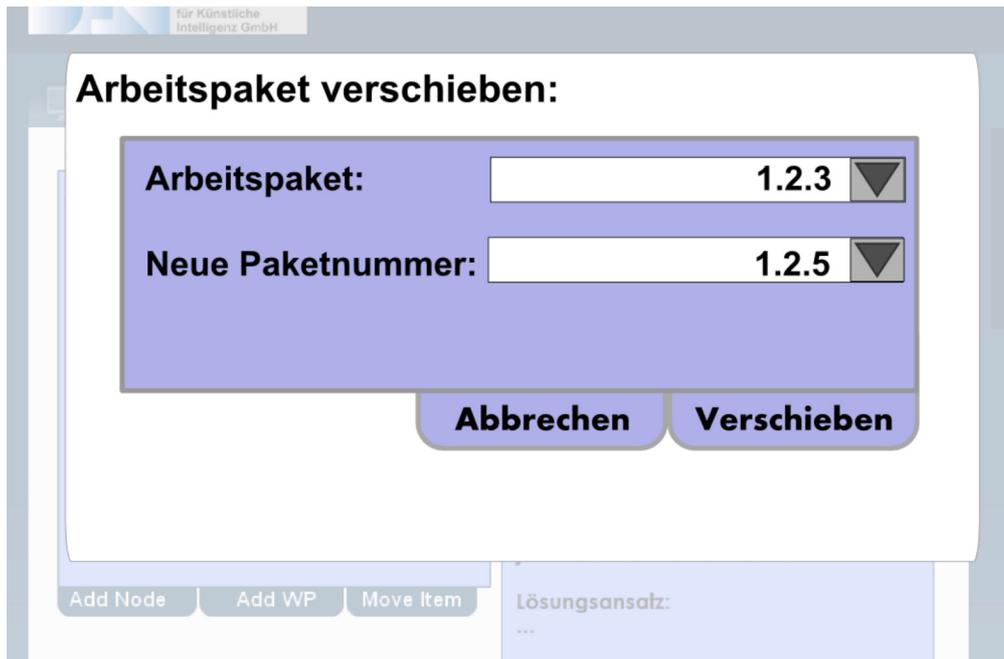
### 3.7 Browser through project tree and view work package description

Project tree view:

The screenshot displays a web-based project management interface. At the top left is the logo for 'Deutsches Forschungszentrum für Künstliche Intelligenz GmbH'. The main area is divided into two panels: 'Project Explorer' on the left and 'Details Auswahl' on the right. The 'Project Explorer' shows a hierarchical tree structure with folders for 'Project Part 1', 'Project Part 2', 'Project Part 3', and 'Project Part 4'. Under 'Project Part 2', there are 'Meta-Package 2.1', 'Meta-Package 2.2', and 'Meta-Package 2.3'. 'Meta-Package 2.1' contains 'Work Package 2.1.1', 'Work Package 2.1.2', and 'Work Package 2.1.3'. 'Work Package 2.1.3' is currently selected. Below the tree are buttons for 'Hinzufügen', 'Löschen', 'Paket verschieben', and 'Pakete vereinen'. The 'Details Auswahl' panel provides information for 'Work Package 2.1.3', including the partner 'DFKI Saarbrücken', duration 'T3-6,T8-9', and resources '12 (8+4) PM'. It also contains a description of the task, a list of results under 'Angestrebter Leistungsumfang', and lists of 'Import' and 'Export' items. At the bottom of the details panel are buttons for 'Details', 'Bearbeiten', and 'Teilen'. On the right side of the interface, there is a search bar labeled 'Suche' and a user profile section labeled 'Online' with the name 'Admin'.

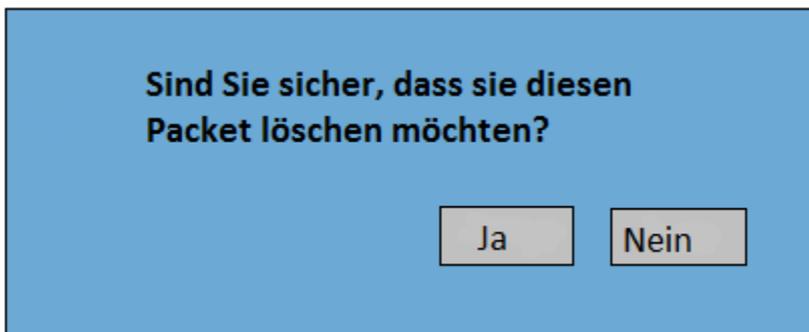
This explorer view allows the user to navigate through the project. On selection of a work package it shows a short summary on the right. It offers buttons to manipulate both the work packages as well as the project structure (depending from the user permissions).

### 3.8 Move element inside project tree



### 3.9 Delete element from project

Clicking on the delete button in the explorer or the detail view of a work package, which opens a warning and asks for confirmation of the delete process. (Example box is shown in 3.13)



### 3.10 Check project status via table view and inspect incorrect import / export relation



A not validated relation or a not exported result is shown in the detail view of the corresponding work package:

Not validated parts are marked red. Another way to check the status is in the table view, either just for its own packages but also for the complete project:



All packages, sortable and searchable:



Index	Titel	Partner	Zuletzt geändert von	Imports	Exports	Results	Status
1	<title>	<partner>	<user>, <timestamp>	3	2	12	
2	<title>	<partner>	<user>, <timestamp>	5	5	4	
3	<title>	<partner>	<user>, <timestamp>	1	1	21	
...	...	...	...	...	...	...	...

### 3.11 Send import request

To create a new import the user clicks in the edit page for workpackages on the "import hinzufügen" button:



It opens a dialog box with a dropdown menu offering all available packages and in the next step, it shows all results of the chosen package (example for such a dialog box see 3.8).

It then adds the import with status (nicht bestätigt)

To acknowledge an import, the owner of the result must add an export to the requesting work package on the edit page for his package.

### **3.12 Acknowledge / Deny import request**

To acknowledge an import, the owner of the result must add an export to the requesting work package on the edit page for his package:



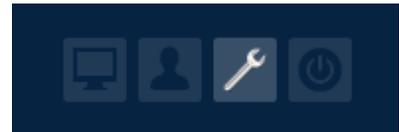
**Import Request**

Package Name:  
Package Nr.:  
Request by:

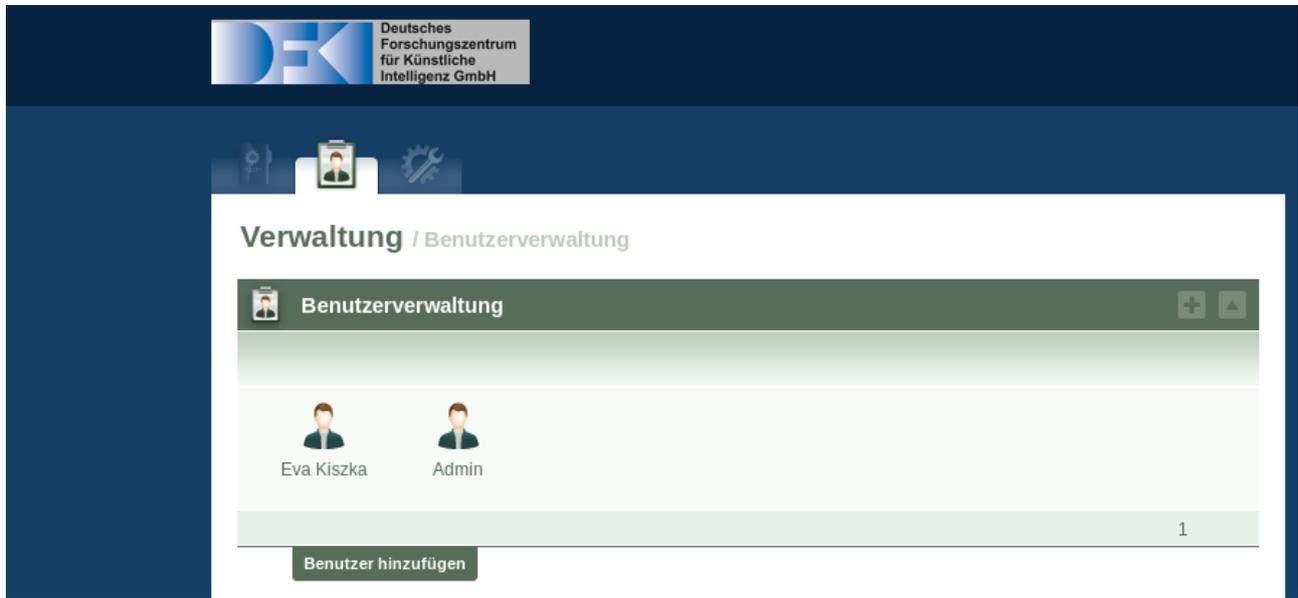
Accept Deny

### 3.13 Add new member

Menu to navigate to the members administration view:



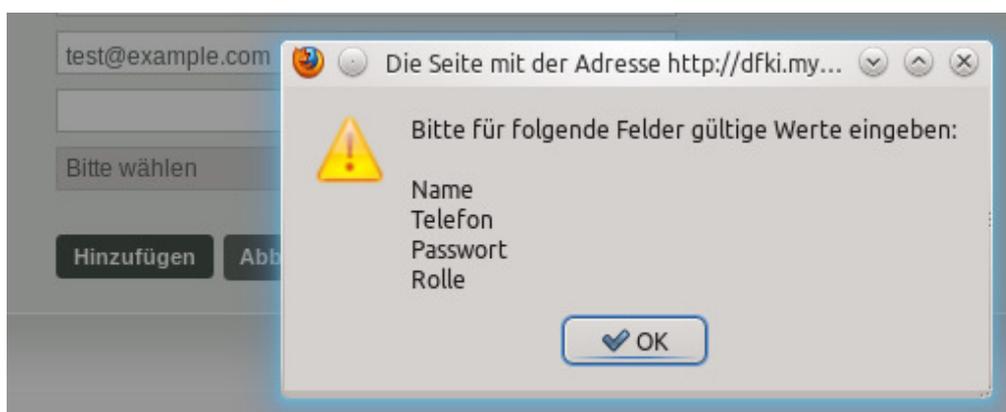
Members administration view with tab "Benutzer hinzufügen":



Form for adding a new member:

Name:	<input type="text"/>
Titel:	<input type="text"/>
Telefon:	<input type="text"/>
E-Mail:	<input type="text"/>
Passwort:	<input type="password"/>
Rolle:	Bitte wählen <input type="button" value="v"/>
<input type="button" value="Hinzufügen"/> <input type="button" value="Abbrechen"/>	

Error message displayed if one or several mandatory fields are not filled in correctly:



### 3.14 Add new partner

## Add Partner

Name:

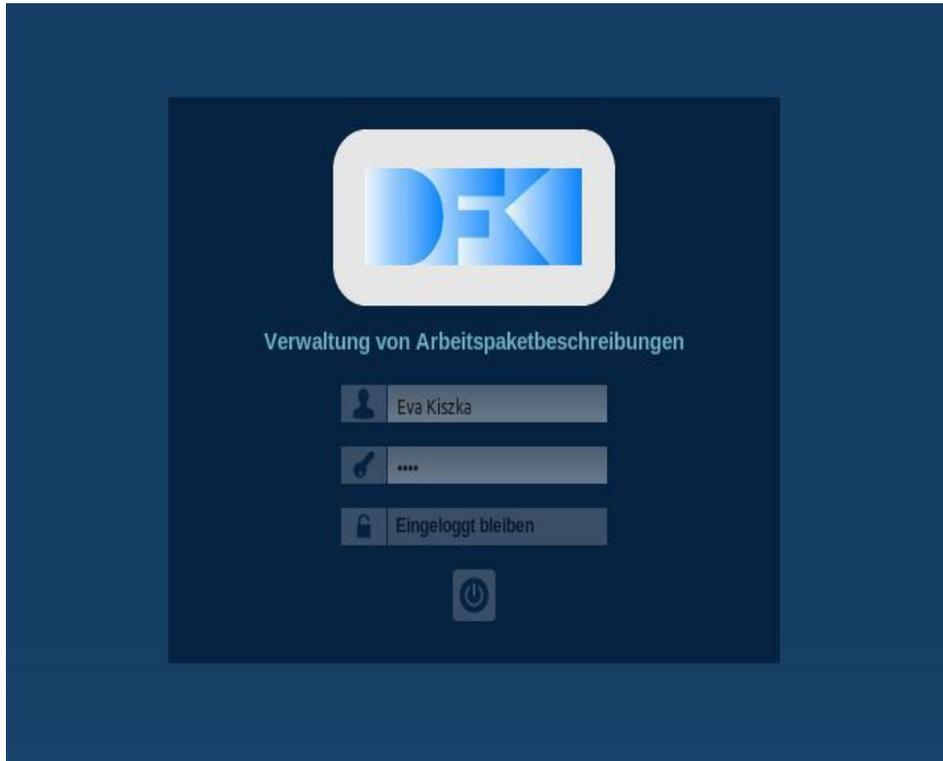
Company:

Email:

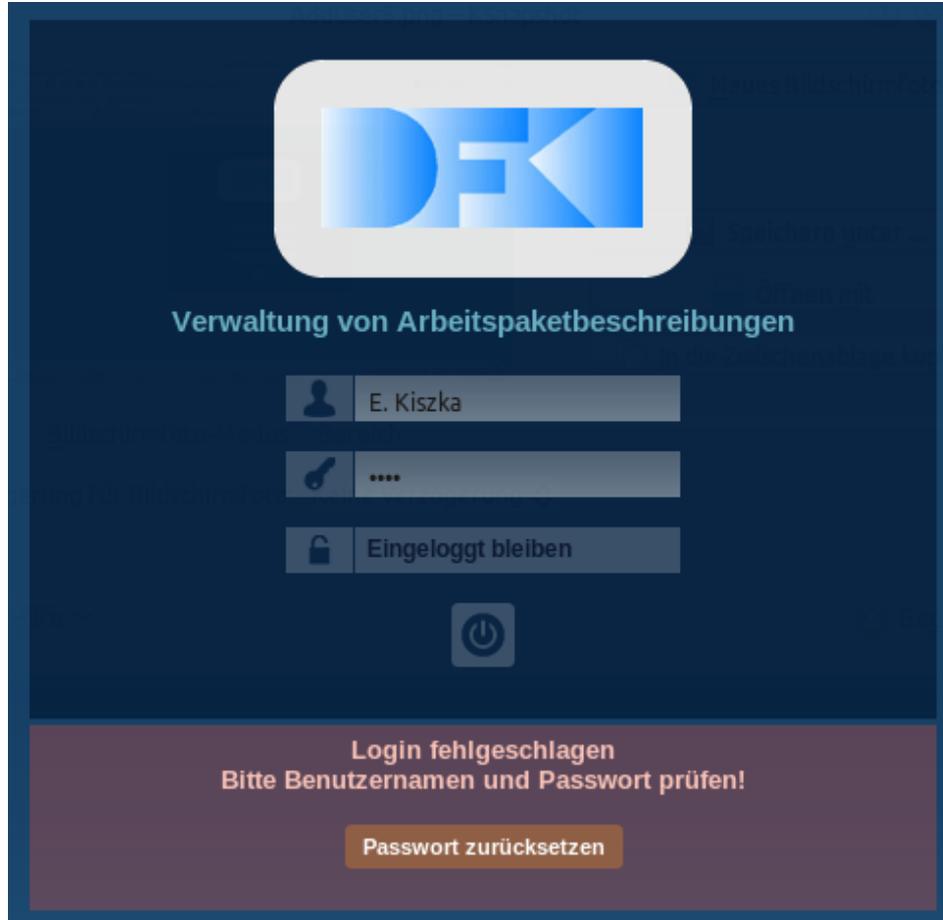
Phone nr.:

### 3.15 Login

Login view:

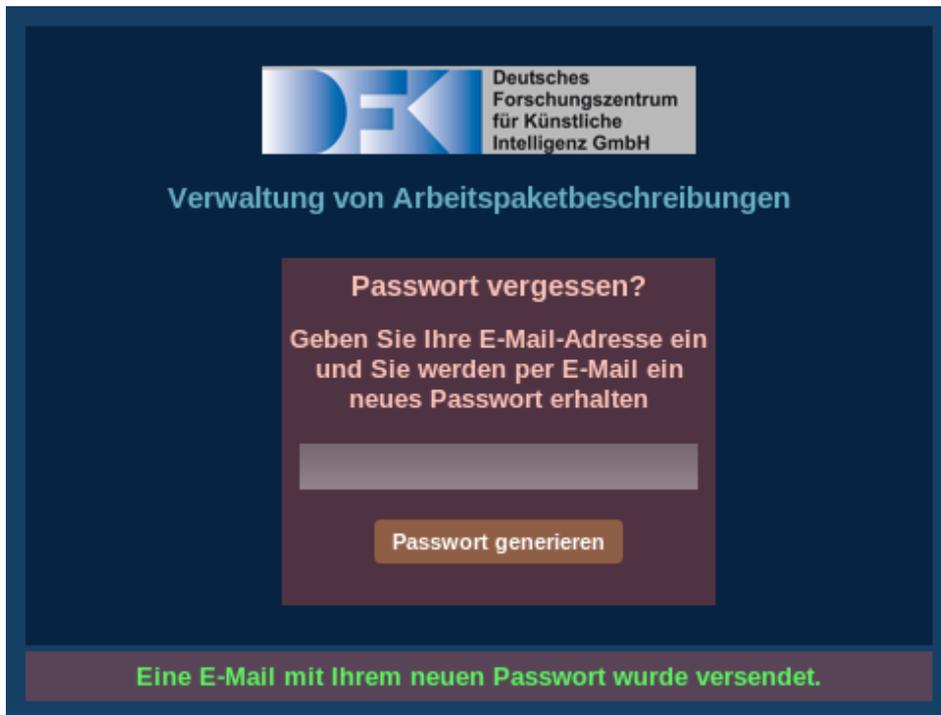


Notification upon failed login:



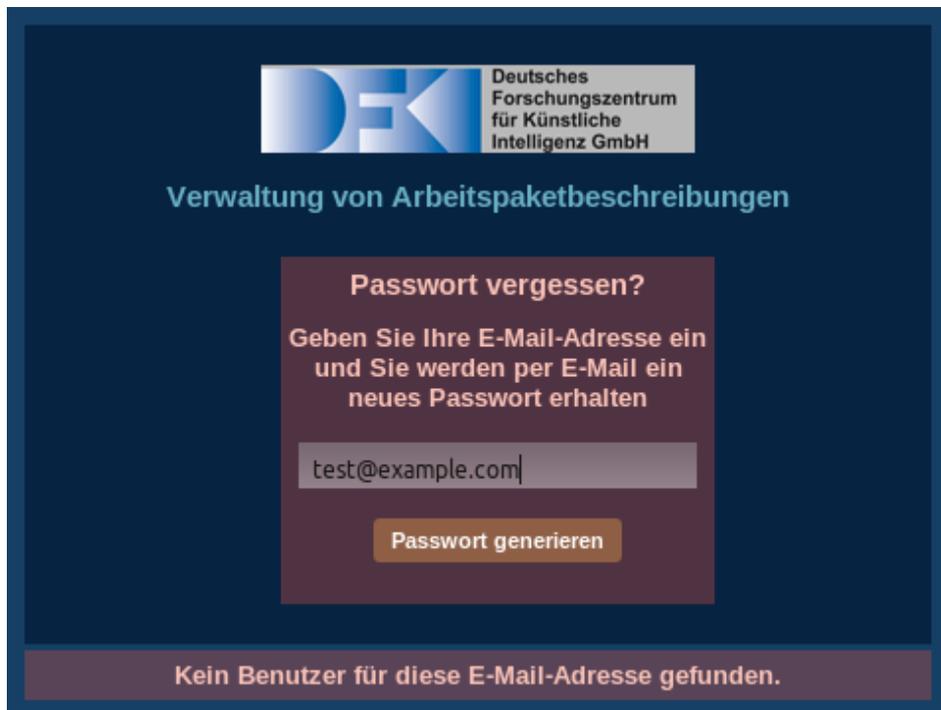
### 3.16 Password recovery

Password recovery form after successful completion:



The screenshot shows a web interface for password recovery. At the top left is the logo for 'Deutsches Forschungszentrum für Künstliche Intelligenz GmbH' (DFKI). Below the logo is the title 'Verwaltung von Arbeitspaketbeschreibungen'. The main content area is a dark red box with the heading 'Passwort vergessen?' and the instruction 'Geben Sie Ihre E-Mail-Adresse ein und Sie werden per E-Mail ein neues Passwort erhalten'. Below this is a text input field and a button labeled 'Passwort generieren'. At the bottom of the interface, a green message states: 'Eine E-Mail mit Ihrem neuen Passwort wurde versendet.'

Password recovery form after failed completion:



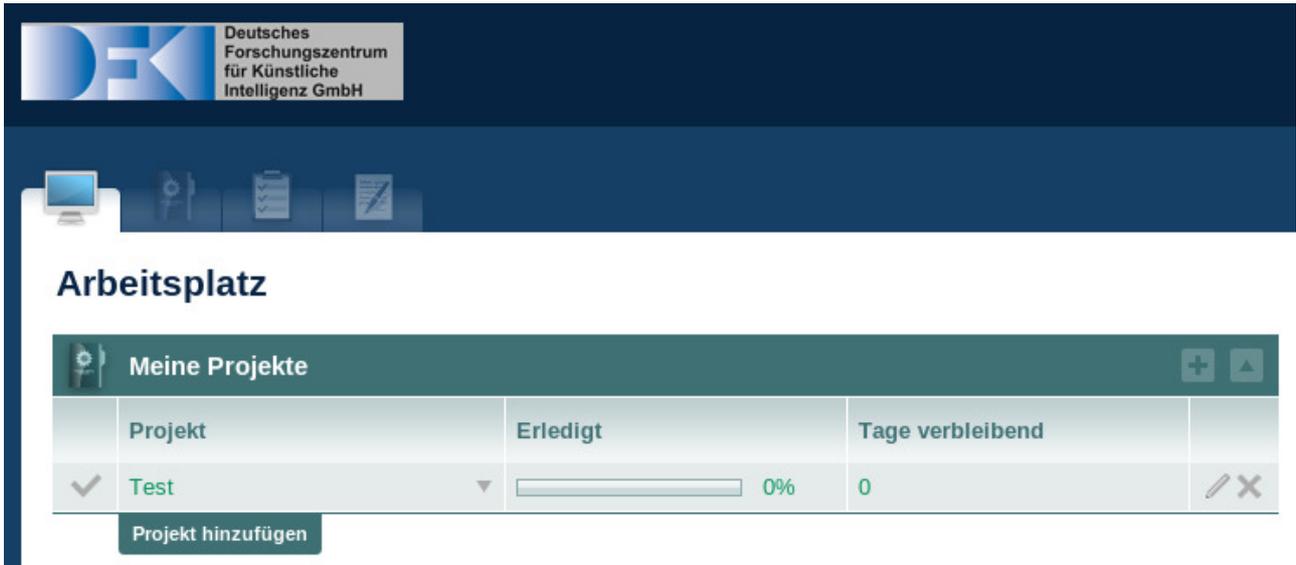
The screenshot shows the same password recovery form as above, but with a failed completion. The text input field now contains the email address 'test@example.com'. The 'Passwort generieren' button is still present. At the bottom of the interface, a red message states: 'Kein Benutzer für diese E-Mail-Adresse gefunden.'

### 3.17 Package log

Aktivität		
	Aktion	Benutzer
	<b>Screenshots2</b> wurde hinzugefügt 16.12.10 (19:48:31)	Eva Kiszka
	<b>new screenshots</b> wurde gelöscht 16.12.10 (19:48:09)	Eva Kiszka
	<b>new screenshots</b> wurde hinzugefügt 16.12.10 (14:00:08)	Sönke Knoch
	<b>Vorschau</b> wurde hinzugefügt 16.12.10 (13:28:42)	Eva Kiszka
	<b>Abgabe</b> wurde hinzugefügt 16.12.10 (12:51:51)	Sönke Knoch
	<b>Final Version</b> wurde geschlossen 16.12.10 (12:46:46)	Sönke Knoch
	<b>Screenshots</b> wurde hinzugefügt 16.12.10 (12:24:33)	Eva Kiszka
	<b>Abgabe</b> wurde hinzugefügt 16.12.10 (12:12:30)	Eva Kiszka
	<b>Abgabe</b> wurde gelöscht 16.12.10 (12:12:10)	Eva Kiszka
	<b>Abgabe</b> wurde hinzugefügt 16.12.10 (12:09:00)	Eva Kiszka
1 2 3 4 5 6 7 8 9 10 11 >>		

### 3.18 Add new project

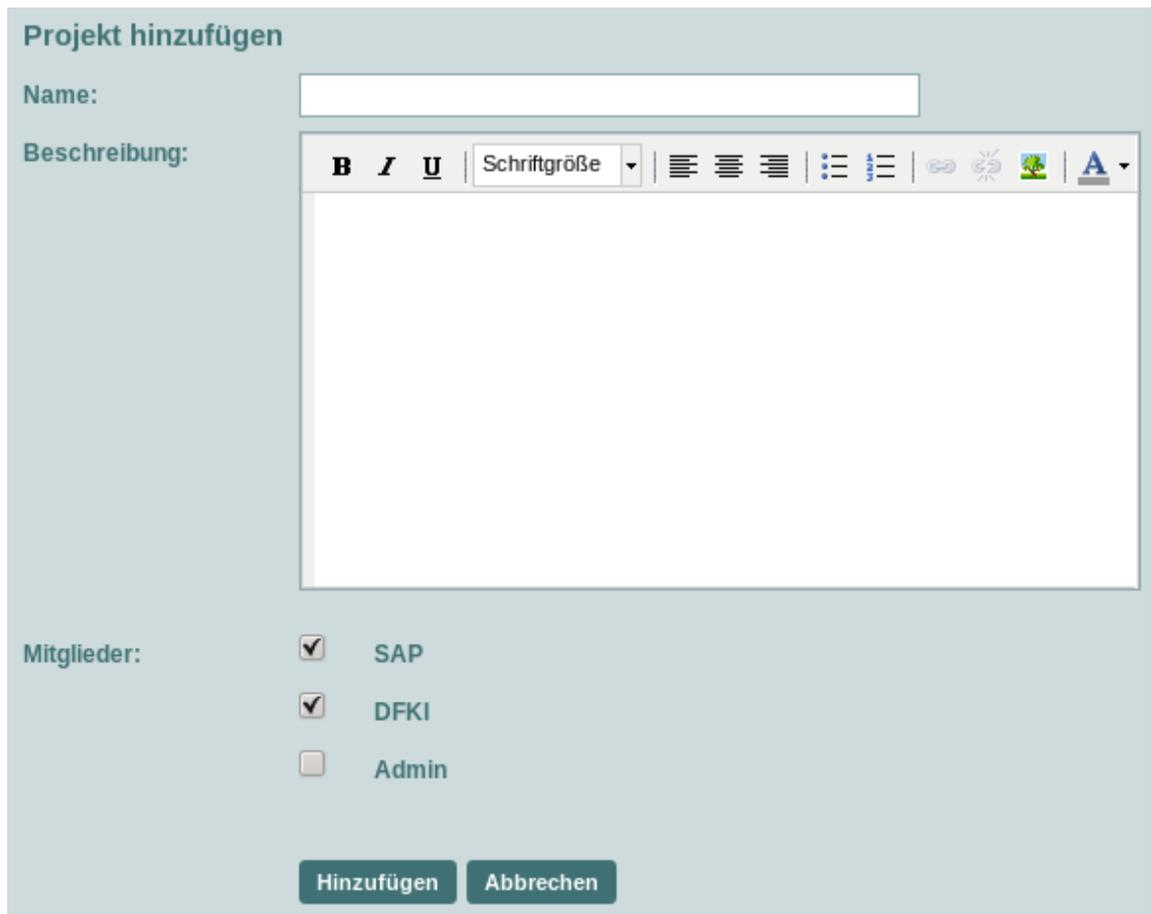
Desktop view including the button "Projekt hinzufügen":



The screenshot shows the desktop view of a workspace titled "Arbeitsplatz". At the top left, there is a logo for "Deutsches Forschungszentrum für Künstliche Intelligenz GmbH". Below the logo is a navigation bar with icons for a computer, a gear, a checklist, and a document. The main content area is titled "Arbeitsplatz" and contains a section for "Meine Projekte". This section has a table with the following columns: "Projekt", "Erledigt", and "Tage verbleibend". The table contains one row with the project name "Test", a progress bar at 0%, and "0" days remaining. Below the table is a button labeled "Projekt hinzufügen".

Projekt	Erledigt	Tage verbleibend
Test	0%	0

Form to add a project:



The form is titled "Projekt hinzufügen" and contains the following fields and controls:

- Name:** A text input field.
- Beschreibung:** A rich text editor with a toolbar containing icons for bold (B), italic (I), underline (U), font size (Schriftgröße), bulleted list, numbered list, link, unlink, image, and text color (A).
- Mitglieder:** A list of checkboxes with labels:  SAP,  DFKI, and  Admin.
- Buttons:** "Hinzufügen" and "Abbrechen".

### 3.19 Edit project

**Projekt bearbeiten**

Name:

Beschreibung:

**B I U** | Schriftgröße | [List icons] | [Link icon] | [Image icon] | **A**

Der Ablaufplan wird auf folgender Grafik sichtbar:

Grafik: Ablaufplan

```
graph TD; A[A] --> B{B}; B --> C[ ]; B --> D[ ]; B --> E[ ];
```

Abschicken

### 3.20 Delete project

Desktop view including a project and the corresponding "x" icon (right side) for deletion:

Deutsches Forschungszentrum für Künstliche Intelligenz GmbH

**Arbeitsplatz**

Meine Projekte

Projekt	Erledigt	Tage verbleibend	
✓ Test	<input type="text" value="0%"/> 0%	0	

Projekt hinzufügen

### 3.21 Merge two work package descriptions

Clicking on the "Vereinen" Button opens a dialog to choose two different work packages from a list. The user chooses the packages to merge and clicks "Vereinen"



Next a window with the package edit options opens:

#### Arbeitspakete vereinen:

**1.2.3**

**Partner:**

Laufzeit:

Ressourcen:

**Aufgabenstellung:**

Paket 1.2.3:  
Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua.

Paket 1.2.7:  
At vero eos et accusam et justo duo dolores et ea rebum.  
Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet.

**Lösungsansatz:**

**Zielstellung:**

**Angestrebter Leistungsumfang:**

- Ergebnis\_1.2.3\_1: Ein erstes Ergebnis (Ergebnis\_1.2.3\_1)
- Ergebnis\_1.2.3\_2: Ein zweites Ergebnis (Ergebnis\_1.2.7\_1)

**Imports:**

- AP 2.3.2: Ergebnis\_2.3.2\_4: Ein erster Import (1.2.3\_1)
- AP 2.4.1: Ergebnis\_2.4.1\_1: Ein zweiter Import (1.2.7)

**Exports:**

- AP 4.5.1: Ergebnis\_1.2.3\_1: Ein erster Export (1.2.3)

**OK** **Abbrechen**

### 3.22 Split work package description

Detail view of a work package description (3.7) with tab "Teilen":



### 3.23 Edit work package description

Form to edit a work package description:

**Details Arbeitspaket Teilen**

**1.2.3**

**Partner:**

Laufzeit: T

Ressourcen:

Aufgabenstellung:

Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet...

Lösungsansatz:

...

Zielstellung:

...

Angestrebter Leistungsumfang:

- Ergebnis\_1.2.3\_1: Ein erstes Ergebnis
- Ergebnis\_1.2.3\_2: Ein zweites Ergebnis (nicht exportiert)

Imports:

- AP 2.3.2: Ergebnis\_2.3.2\_4: Ein erster Import (bestätigt)
- AP 2.4.1: Ergebnis\_2.4.1\_1: Ein zweiter Import (nicht bestätigt)

Exports:

- AP 4.5.1: Ergebnis\_1.2.3\_1: Ein erster Export (bestätigt)

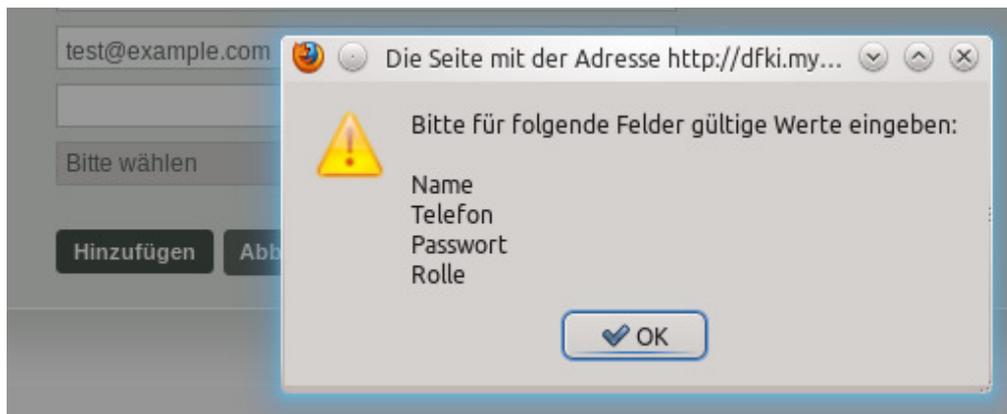
**OK** **Abbrechen**

### 3.24 Delete work package description

See Use Case 3.22 for reference: Clickable tab "Löschen" under the detail view of a work package description

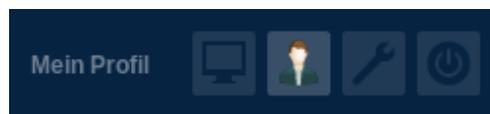
### 3.25 Simultaneous changing of work package description

Display of a notification with the text "Die Arbeitspaketbeschreibung ist im Moment gesperrt, da ein anderer Benutzer sie gerade bearbeitet.", styling will be the same as for this warning:



### 3.26 Edit user profile

Menu to navigate to the members administration view:



Member profile view with clickable tab (screwdriver), which leads to the member profile edit form:



Form to edit a member:

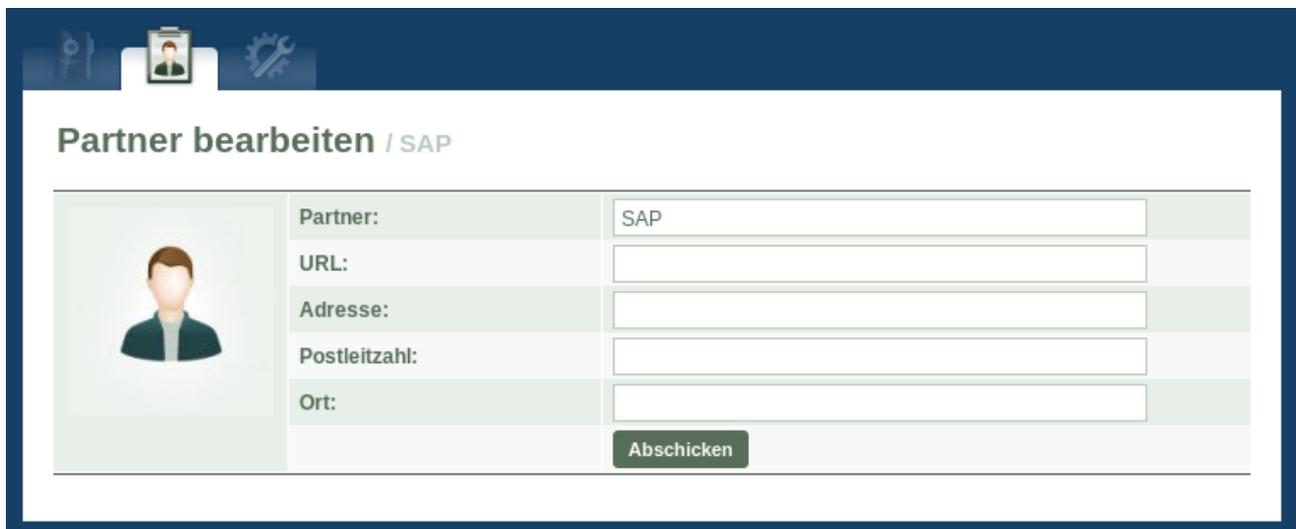


The screenshot shows a web interface for editing a user profile. The title is 'Benutzer bearbeiten / Amalia Radoiu'. On the left is a placeholder for a profile picture. The main area contains a form with the following fields:

Benutzer:	<input type="text" value="Amalia Radoiu"/>
Titel:	<input type="text"/>
Partner:	<input type="text" value="DFKI"/>
E-Mail:	<input type="text" value="test@example.com"/>
Telefon:	<input type="text" value="0681 - 1234567"/>
Geschlecht:	<input type="text" value="Weiblich"/>
Altes Passwort:	<input type="text"/>
Neues Passwort:	<input type="text"/>
Passwort wiederholen:	<input type="text"/>

At the bottom right of the form is a green button labeled 'Abschicken'.

### 3.27 Edit partner profile



The screenshot shows a web interface for editing a partner profile. The title is 'Partner bearbeiten / SAP'. On the left is a placeholder for a profile picture. The main area contains a form with the following fields:

Partner:	<input type="text" value="SAP"/>
URL:	<input type="text"/>
Adresse:	<input type="text"/>
Postleitzahl:	<input type="text"/>
Ort:	<input type="text"/>

At the bottom right of the form is a green button labeled 'Abschicken'.

### 3.28 Edit role

Members administration view with block "Rollen" and small arrows besides role names for editing:

The screenshot shows a web interface for user management. At the top, there is a navigation bar with a gear icon and a user profile icon. Below the navigation bar, the main heading is "Verwaltung / Benutzerverwaltung".

The first section is titled "Benutzerverwaltung" and contains a list of users: Anselm Blo..., SAP, Eva Kiszka, and Amalia Radoiu. Below the list is a "Benutzer hinzufügen" button and a page indicator showing "1".

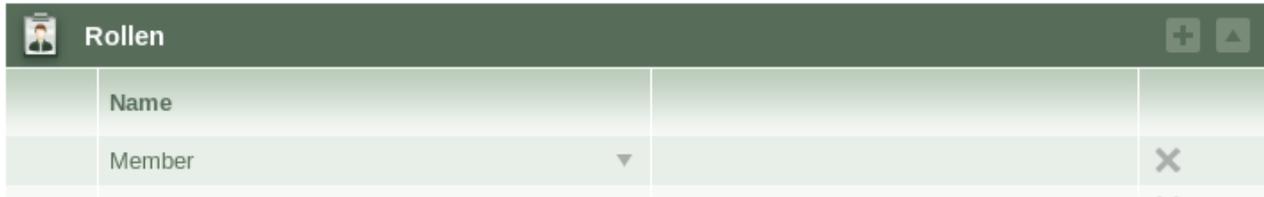
The second section is titled "Rollen" and contains a table of roles. The table has three columns: "Name", a dropdown menu, and a delete icon (X). The roles listed are Member, Project Manager, and Admin. Below the table is a "Rolle hinzufügen" button.

Form to edit a role:

The screenshot shows the "Rollen" form for editing a role. The form has a table with three columns: "Name", a dropdown menu, and a delete icon (X). The roles listed are Member, Project Manager, and Admin. Below the table, there is a "Name:" label and a text input field containing "Admin". Below that, there is a "Berechtigungen:" label and a section for "Projekte" with a checked checkbox and the label "Hinzufügen".

### 3.29 Delete role

Roles block including a role and the corresponding "x" icon (right side) for deletion:



Rollen		
Name		
Member	▼	✕

### 3.30 Add new role

Members administration view with block "Rollen" and tab "Rolle hinzufügen" for adding a role:



Rollen		
Name		
Member	▼	✕
Project Manager	▼	✕
Admin	▼	✕

Rolle hinzufügen

Upper part of the form to add a role:



Rollen

Rolle hinzufügen

Name:

Berechtigungen:

Projekte  Hinzufügen