

Temporal Issue Tracking System

User Manual

Contents

1 Requirements

1.1 Functional

- FR1** Create task
- FR2** Assign status to task
- FR3** Create status
- FR4** Delete status
- FR5** Status should have an icon
- FR6** Set deadline of the task
- FR7** Remove deadline from the task
- FR8** Assign tasks
- FR9** Unassign task
- FR10** Change task's priority
- FR11** See log of actions performed on the task
- FR12** Task with a final status should not be able to change its status
- FR13** Log in
- FR14** Log out
- FR15** Sign up
- FR16** See list of all tasks
- FR17** See list of all statuses
- FR18** See list of all users
- FR19** Have a dashboard with most important tasks based on the deadline and priority
- FR20** Filter tasks
- FR21** Filter statuses
- FR22** See detailed information about the task

1.2 Non-functional

IR1 Application should have uniform look and be visually appealing

IR2 Inputs should be pre-validated before submit

IR3 Application should be secure

IR4 Interface should be self-explanatory

IR5 Application should work without JavaScript

1.3 Implementation

IR1 Application should be written in PHP

IR2 Source code should be licensed under a free license

IR3 Styling and JavaScript files should be separated from the main code

2 Pages

2.1 Login

The first page user sees is the login page. The page consists of the login form and the button, leading to the signup page (in case the user does not have an account yet).

Temporal Issue Tracking System [Sign Up](#)

Link to the
signup page

Login form

Login

Enter your login

Password

Enter your password

Log in

Figure 1: Login page

The login form consists of the labelled input fields for the login and password and the button that submits entered credentials when it's clicked. In order to

improve user experience, user can log in using just keyboard for the login field is focused immediately after page is loaded and then one can switch to the password field pressing Tab (Shift-Tab to switch back) and submit the form by pressing Enter. After the field loses focus, it is pre-validated against the general rules, applicable to login and password (login should start with a letter and contain only alphanumeric characters, password should not be shorter than 5 characters) and it is styled according to the validation result. If validation fails, an information message is shown. On form submit all the fields are validated simultaneously.

The screenshot shows the top of a web application titled "Temporal Issue Tracking System" with a "Sign Up" link. Below the header is a login form. The "Login" field contains the text "asdf" and is highlighted with a green border and a green checkmark icon, with the label "Successfully validated field" to its right. The "Password" field contains the placeholder text "Enter your password" and is highlighted with a red border. To its left is the label "Unsucessfully validated field" (note the typo). To its right is a red error message: "Your password must be at least 5 characters long", with the label "Information message" below it. At the bottom of the form is a blue "Log in" button.

Figure 2: Input pre-validation

On form submit (in case field pre-validation succeeded) credentials are being checked and if they are correct, the user is redirected to the home page. Otherwise an information message is shown and password field is erased.

The screenshot shows the 'Temporal Issue Tracking System' header with a 'Sign Up' link. The login form includes a 'Login' label, a text input with 'asdf', a 'Password' label, a text input with 'Enter your password', and a blue 'Log in' button. Below the button, a red error message states 'Entered credentials are invalid, try again'.

Figure 3: Login failed due to incorrect credentials

2.2 Signup

Signup page is similar to the login page but differs in the contents of the form. Signup form contains the following fields: name, login, password and confirmation. Pre-validation rules are the same for the username and password, name is not validated and password confirmation is checked against the password (if the values match). The button in the top-right corner leads to the login page.

The screenshot shows the 'Temporal Issue Tracking System' header with a 'Log In' link. The signup form includes a 'Name' label, a text input with '-!@#&%*asdfASDF', a 'Login' label, a text input with '234asdf' (with a red error message: 'Login should start with a letter and consist only of letters and digits'), a 'Password' label, a text input with '....' (with a red error message: 'Your password must be at least 5 characters long'), a 'Password confirmation' label, a text input with '.....' (with a red error message: 'Confirmation does not match'), and a blue 'Sign Up' button.

Figure 4: Signup page

On signup the entire form is pre-validated and (in case of success) the login is checked for availability and the result is shown as an information message and

passwords fields are erased. In case of success other fields are erased too.

The screenshot shows the 'Temporal Issue Tracking System' header with a 'Log in' link. The form contains fields for Name (filled with 'ΦΙΙΙΒΑΙΒ'), Login (filled with 'abcde'), Password, and Password confirmation. A blue 'Sign Up' button is present. Below the button, a red-bordered box contains the text 'Login abcde is already taken', and below that, the text 'Signup failed' is displayed in red.

Figure 5: Signup failed due to login being already taken

The screenshot shows the same 'Temporal Issue Tracking System' header. The form fields are now empty. Below the blue 'Sign Up' button, a green-bordered box contains the text 'Successfully registered, you may login now', and below that, the text 'Login successful' is displayed in green.

Figure 6: Signup succeeded

2.3 Home

After user is logged in, the home page is shown. The header (which is virtually the same throughout the entire application) serves as a navigation menu, shows the name of the current user (and login in the tooltip) and lets the user to log out.

In the main part of the page the application title and welcome message is shown

above the list of the tasks, requiring user's attention the most. Task entries will be discussed later in this Manual.

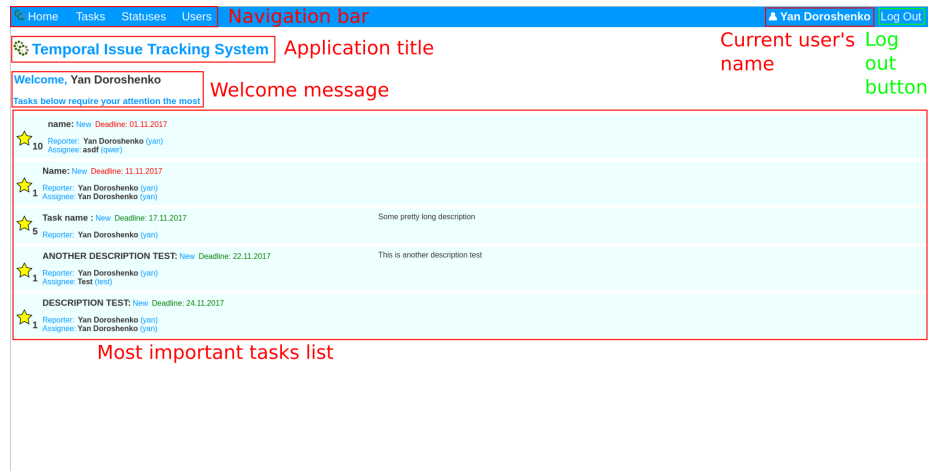


Figure 7: Home page

2.4 Tasks

2.4.1 List

Task list can be accessed using the navigation bar in the header. This page shows the paginated list of all the tasks. The number of all the tasks is shown in the bottom-right angle together with the indicator, which entries are show on the current page. Bottom-left corner accomodates page navigation buttons. Tasks can be searched by name and description using the filter in the header. There is also a button, redirecting to the task creation page, in the header.

Home	Tasks	Statuses	Users	New task	Go to task creation page	Filter	Yan Doroshenko	Log Out
★ 6	Name: New	Reporter: Yan Doroshenko (yan)	Assignee: Yan Doroshenko (yan)					
★ 1	Name: New Deadline: 11.11.2017	Reporter: Yan Doroshenko (yan)	Assignee: Yan Doroshenko (yan)					
★ 10	name: New Deadline: 01.11.2017	Reporter: Yan Doroshenko (yan)	Assignee: asdf (qwer)					
★ 1	DESCRIPTION TEST: New Deadline: 24.11.2017	Reporter: Yan Doroshenko (yan)	Assignee: Yan Doroshenko (yan)					
★ 1	ANOTHER DESCRIPTION TEST: New Deadline: 22.11.2017	Reporter: Yan Doroshenko (yan)	Assignee: Test (test)		This is another description test			

Task list

Page navigation

Entry count and page indication

Previous page	11/15/18
---------------	----------

Figure 8: Task list page

Each task entry contains most information about the task: name, priority (1 to 10, 1 is the most important), description, status icon and title, deadline (shown in red if passed), reporter's and assignee's name and login. Clicking on the entry redirects to the task details page.

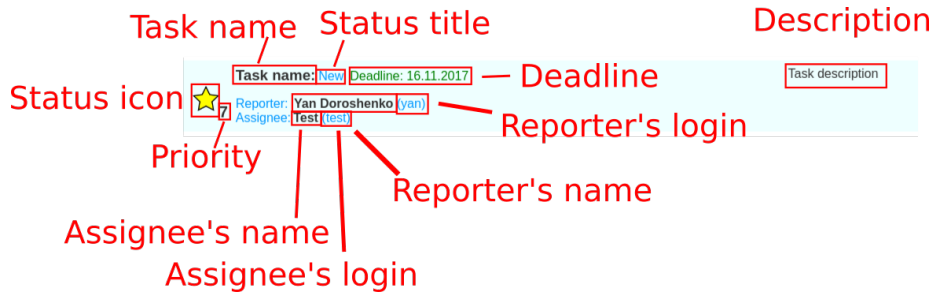


Figure 9: Task entry

2.4.2 Creation

Task creation page can be accessed from the task list page via the button in the header. It contains the form, letting the user to provide the details for the new task. There are only two required fields - priority and task name. All the other fields are optional. Task is created by clicking the "Create" button.

Home Tasks Statuses Users Yan Doroshenko Log Out

Priority

5 ✓

Deadline

mm/dd/yyyy

Assignee

None

Name

Task name ✖ Name should not be empty

Description

Task description

Create

Figure 10: Task creation page

2.4.3 Details

Task details page shows the task details and allows the reporter to edit the task.

Home Tasks Statuses Users Yan Doroshenko Log Out

Status icon

Task priority

5

Task name

Task name ✖ Name should not be empty

Task description

Task deadline

mm/dd/yyyy

Task reporter

Yan Doroshenko

Task assignee

asdf (qwer)

Comment field

Comment

Your commentary

Save task

Save button

Action log

Yan Doroshenko (yan) on 2017-11-14 10:27:59
Assigned asdf(qwer)
Comment: Deadline set to 2017-11-09.

Yan Doroshenko (yan) on 2017-11-14 10:27:44
Comment: Deadline removed.
Task unassigned.

Yan Doroshenko (yan) on 2017-11-14 10:27:38
Priority change: from 10 to 5
Assigned Test(test)
Comment: Deadline set to 2017-11-30.

Yan Doroshenko (yan) on 2017-11-14 10:21:55
Priority change: from 9 to 10
Comment: Deadline removed.

Yan Doroshenko (yan) on 2017-11-14 10:21:55
Assigned Yan Doroshenko(yan)

Figure 11: Task details page

Comment field is for everyone to fill. Submitting a comment creates a log entry with a comment.

Reporter can edit priority, status, assign and unassign users, add, edit and remove deadline.

Assignee can change status.

Note: status can't be changed once task is assigned a final status.

Save button saves the changes, updates the task and creates an action log entry,

containing all the changes made.

The screenshot shows a web interface for task management. At the top, there is a navigation bar with links: Home, Tasks, Statuses, Users. On the right, the user's name 'Yan Doroshenko' and a 'Log Out' link are displayed. The main form contains several labeled fields:

- Status icon**: A blue triangle icon.
- Task priority**: A dropdown menu showing the value '5'.
- Status title**: A label 'Test status'.
- Task name**: A text input field containing 'Task name'.
- Task description**: A text area with the placeholder 'Enter priority long description'.
- Task deadline**: A date input field showing '11/09/2017'.
- Task reporter**: A dropdown menu showing 'Yan Doroshenko (yan)'.
- Task assignee**: A dropdown menu showing 'asdf (qwer)'.
- Comment field**: A text area with the placeholder 'Your commentary'.
- Save button**: A button labeled 'Save task'.

 Below the form is an **Action log** section, which is a list of blue-bordered entries. Each entry contains the user 'Yan Doroshenko (yan)', a timestamp, and a description of an action such as 'Assigned asdf(qwer)', 'Deadline set to 2017-11-09', 'Deadline removed. Task unassigned.', 'Priority change: from 10 to 5', 'Assigned Test(test)', and 'Deadline set to 2017-11-30'.

Figure 12: Task details page

Action log entry contains information about the user, performing the action, date and time when it was performed, description of all the changes, and a comment.

This image is a close-up of a single action log entry from the previous figure. It is a blue-bordered box containing the following information:

- User name**: 'Yan Doroshenko' (highlighted in red).
- User login**: '(yan)' (highlighted in red).
- Performed on**: '2017-11-14 10:27:38' (highlighted in red).
- List of changes**: A box containing 'Priority change: from 10 to 5' and 'Assigned Test(test)' (highlighted in red).
- Comment**: 'Comment: Deadline set to 2017-11-30.' (highlighted in red).

Figure 13: Action log entry

2.5 Statuses

2.5.1 List

The status list page can be accessed via the button in the header. It has the same paging, filtering and entry creation features as described before regarding the task list page.

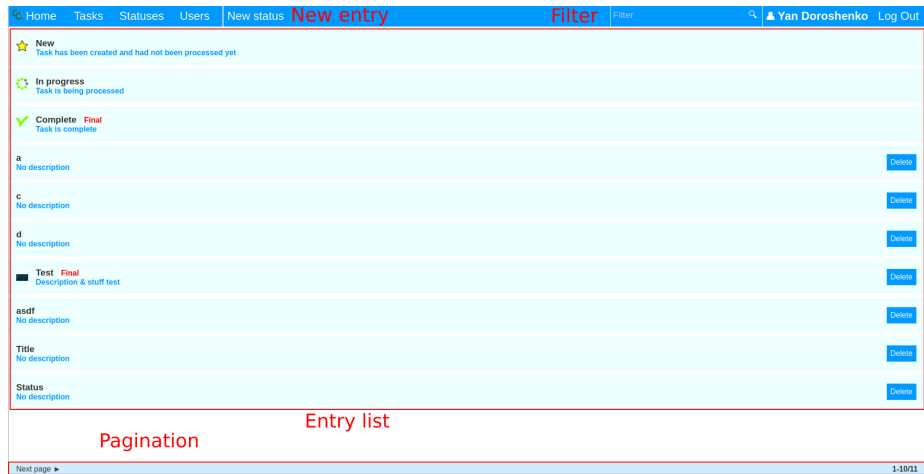


Figure 14: Status list page

Status entry contains all the information about the status (title, description, icon, whether the status is final) and enables deletion of the non-system statuses (system statuses are firmly set and can not be deleted).

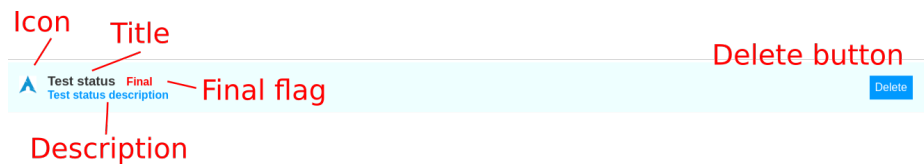


Figure 15: Status entry

When "Delete" button is clicked, status is checked for dependent tasks (task that had this status set at some point). If nothing is found, status is deleted and the list is refreshed. Otherwise, information message is shown.

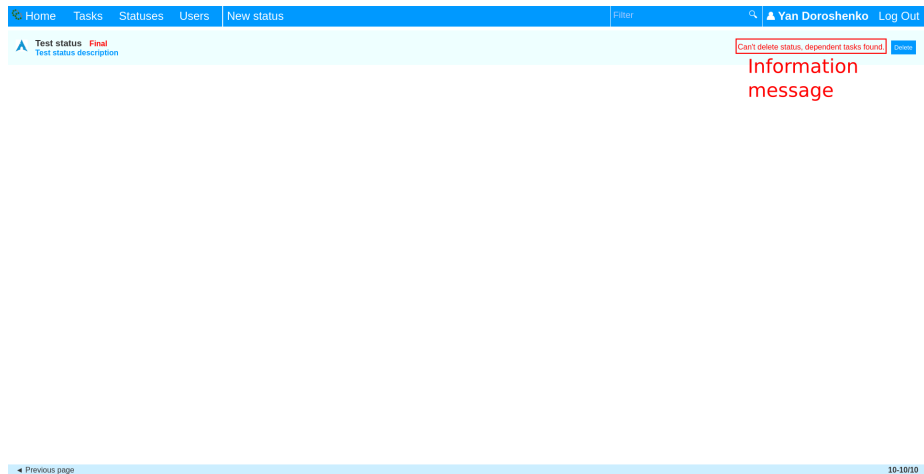


Figure 16: Status deletion failed

2.5.2 Creation

Status creation page can be accessed from the status list page via the button in the header. It contains the form, letting the user to provide the details for the new status. Title is required. Checking the "Final" checkbox means that the task's status can't be changed after this status is assigned. Icon upload file is checked to be a valid image file.

Figure 17: Status creation page