Innovative Strategic Partnership for European Higher Education

ISPEHE

BEP frontent

BEP development

Aim is to create project management system, suitable for common business, educational or research projects

Solution based on Redmine.

Redmine is project management web application written using the Ruby on Rails framework.

It is cross-platform and cross-database.

Main technical modifications

Adjustment and configuration of Redmine for BEP purposes

Upgrading the backend system, with the required functionalities

Set-up and maintenance of monitoring system

Integration of BEP with BigBlueButton

Integration of Moodle with BEP online conferencing

Development of mobile frontend

Testing BigBlueButton in Skopje

Technologies used for mobile frontend

Simplified version for overviewing projects and tasks

AngularJS (https://angularjs.org/) is a structural framework for dynamic web apps.

Bootstrap (http://getbootstrap.com/) is used for mobile friendly development, to create BEP frontend responsive.

Technologies used for Mobile frontend

Bower (https://bower.io/) tool is used to manage BEP frontend development.

For programming purposes **NPM** (https://www.npmjs.com/) is used to share and reuse code.

For managing multiple languages in BEP **angular-gettext** tool is used

UI-Router angular-ui-router (https://ui-router.github.io/) tool is used for routing single page websites

SASS CSS (http://sass-lang.com/) is used to describe Cascade Style Sheets for BEP frontend.

Technologies used for Mobile frontend

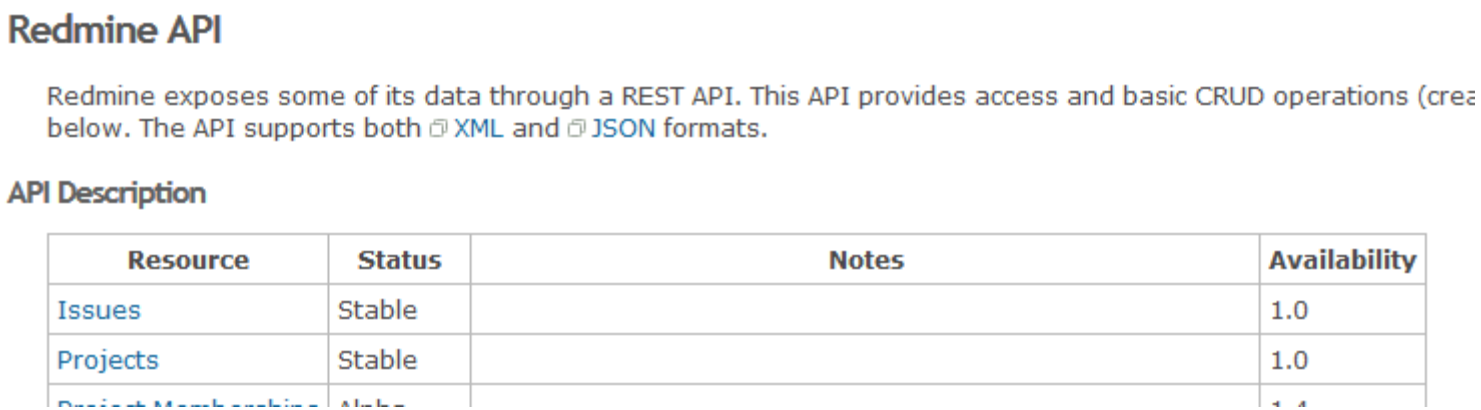
UI Bootstrap ui-bootstrap (https://angular-ui.github.io/bootstrap/) is used to create a link between bootstrap and angular framework.

jQuery (https://jquery.com/) JavaScript library to write JavaScript code for frontend.

Gulp (http://gulpjs.com/) tool is used to support frontend development, such as reloading the browser automatically whenever a file is saved and optimizing assets like CSS, JavaScript, and images.

Mobile frontend development

Redmine REST API was used to create mobile friendly frontend of the BEP system, such as Issues, Trackers, Users and Enumerations



Redmine API

Redmine exposes some of its data through a REST API. This API provides access and basic CRUD operations (crea
below. The API supports both XML and JSON formats.

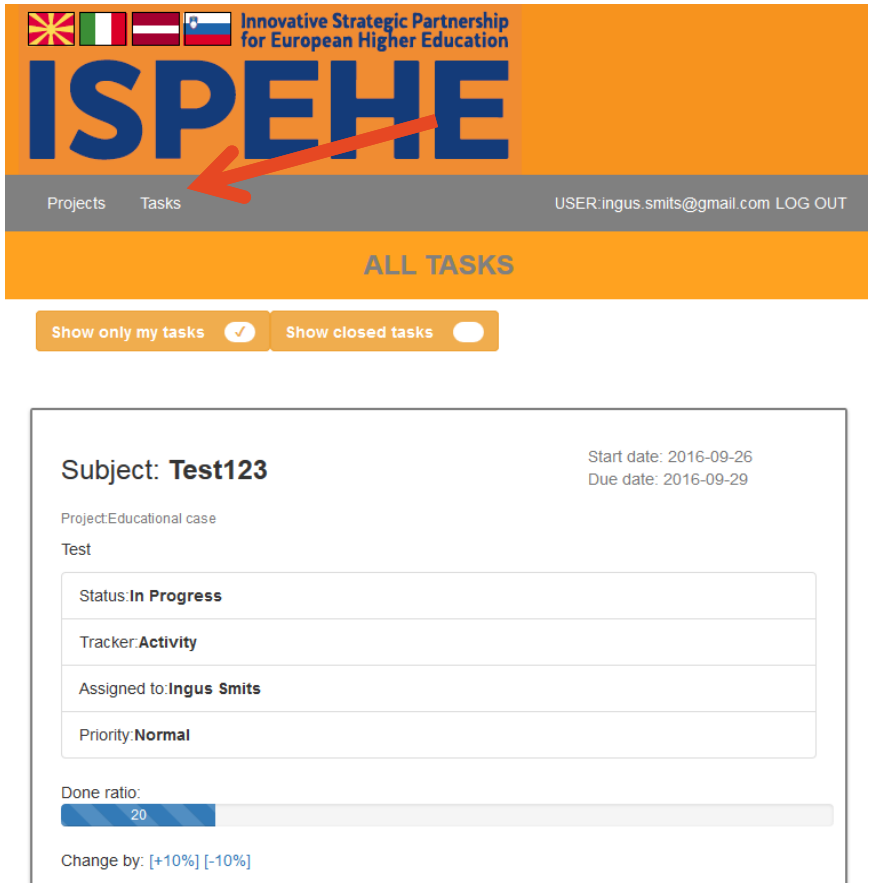
API Description

Resource	Status	Notes	Availability
Issues	Stable		1.0
Projects	Stable		1.0

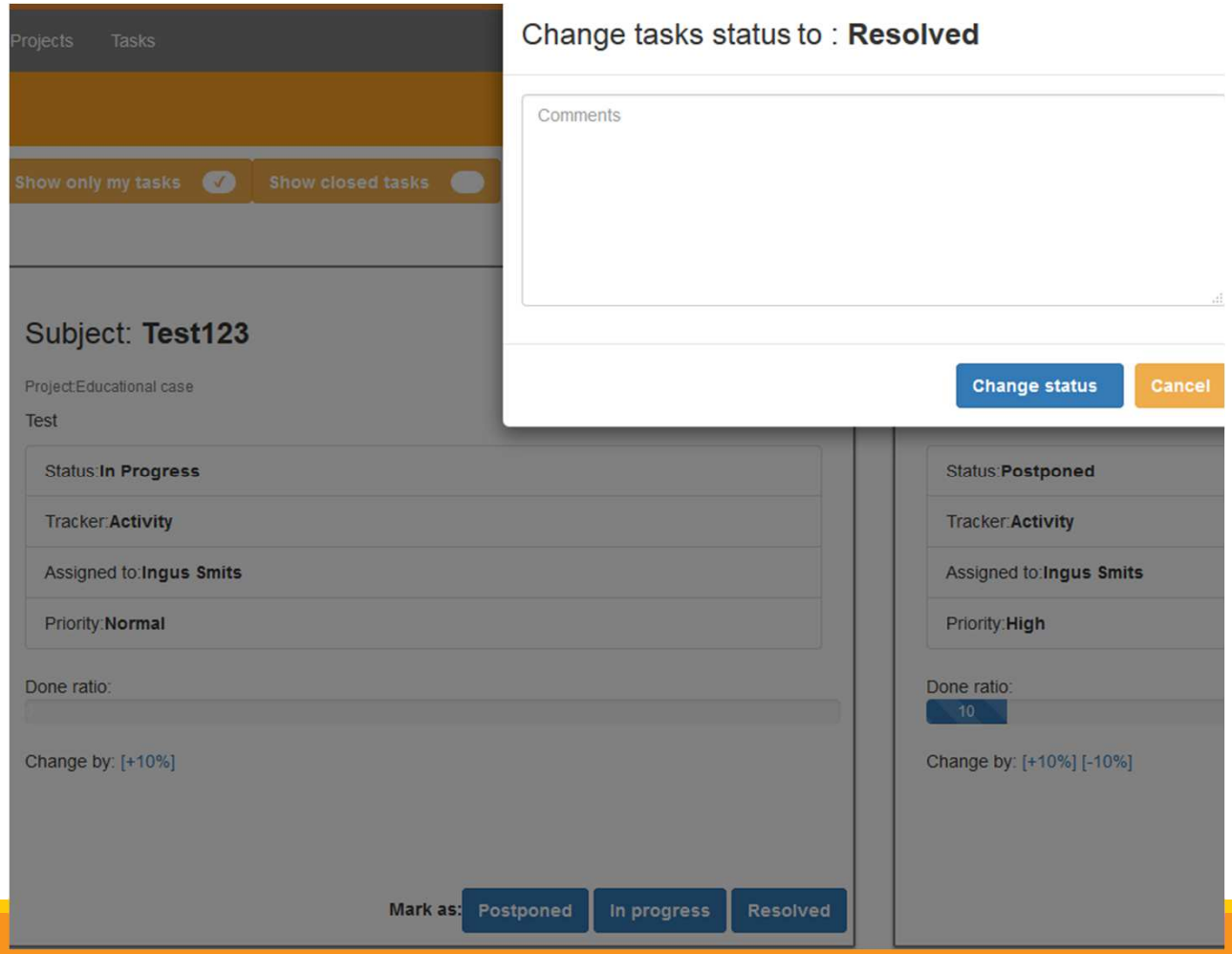
Mobile frontend login screen

Mobile frontend projects screen

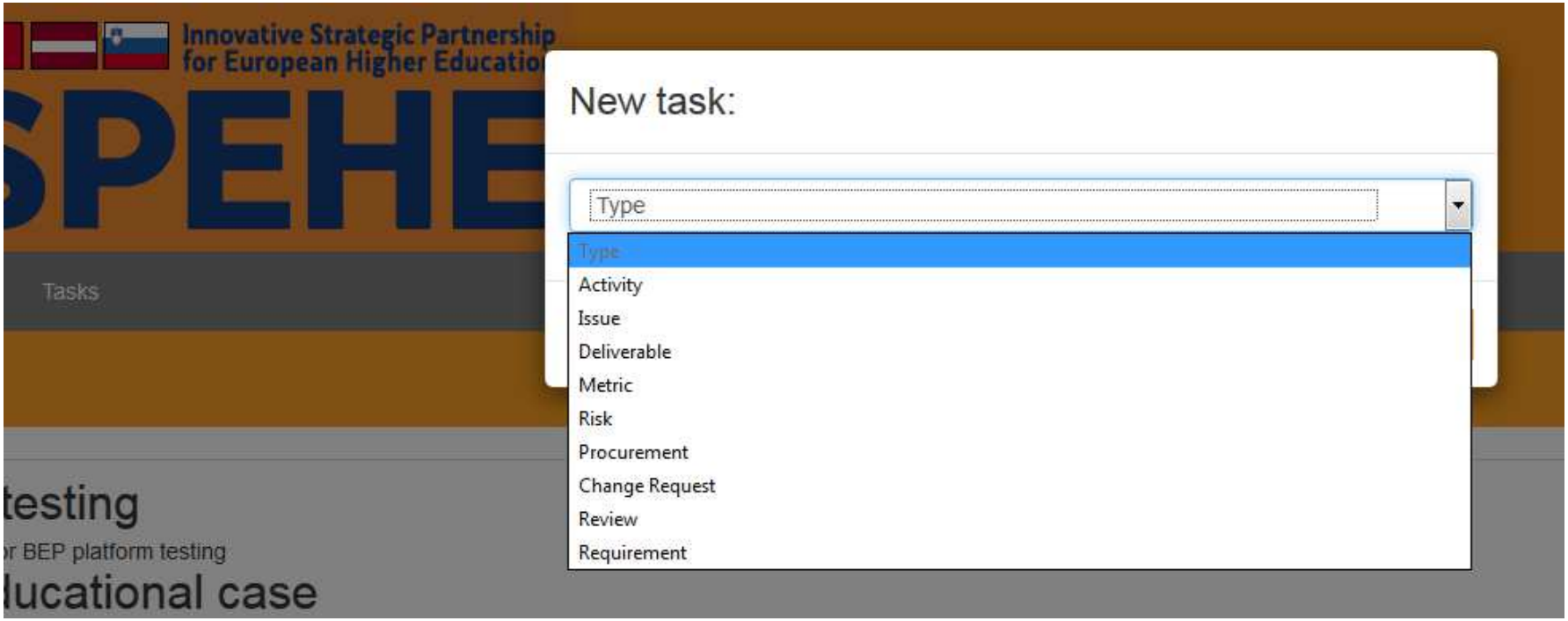
Mobile frontend tasks screen



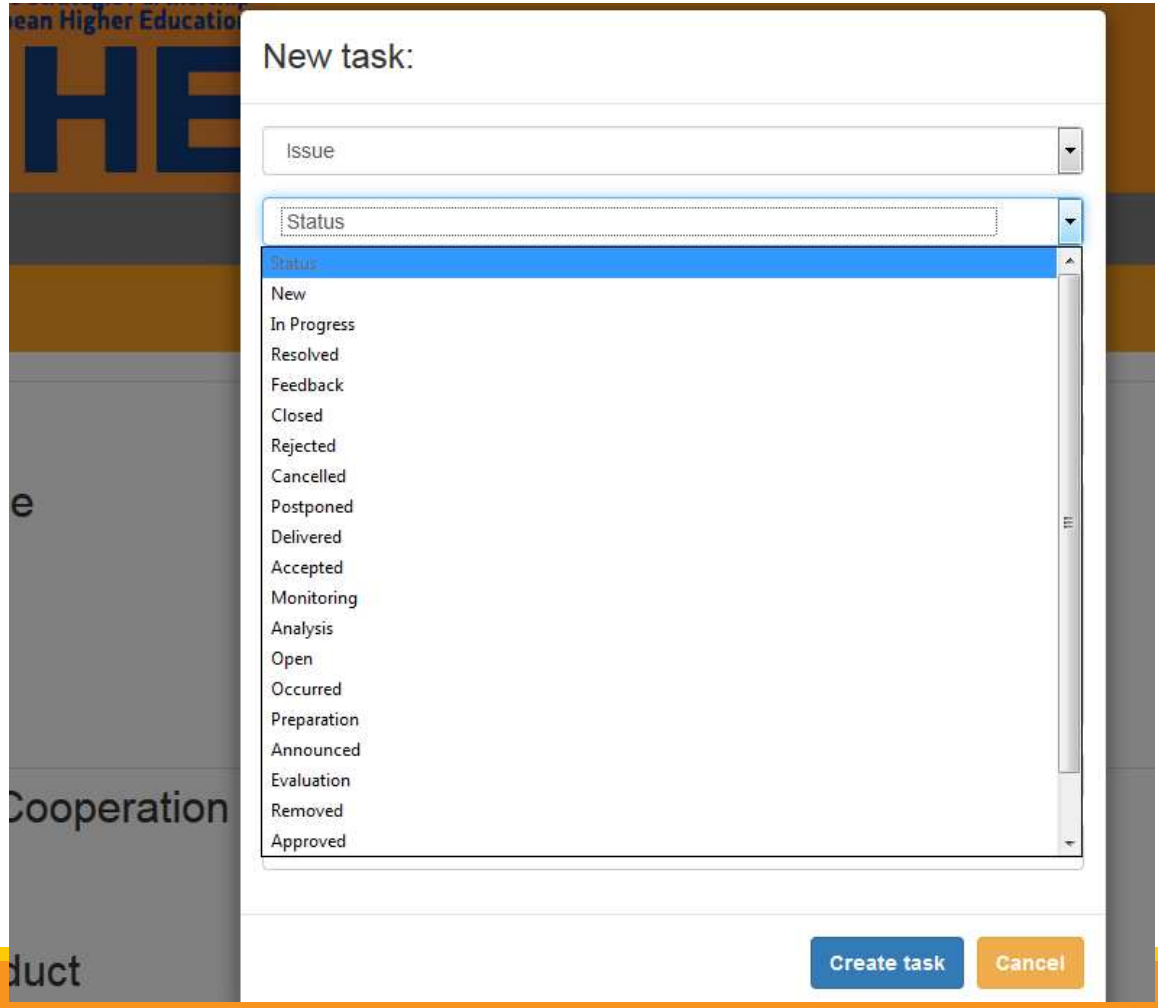
Mobile frontend tasks status



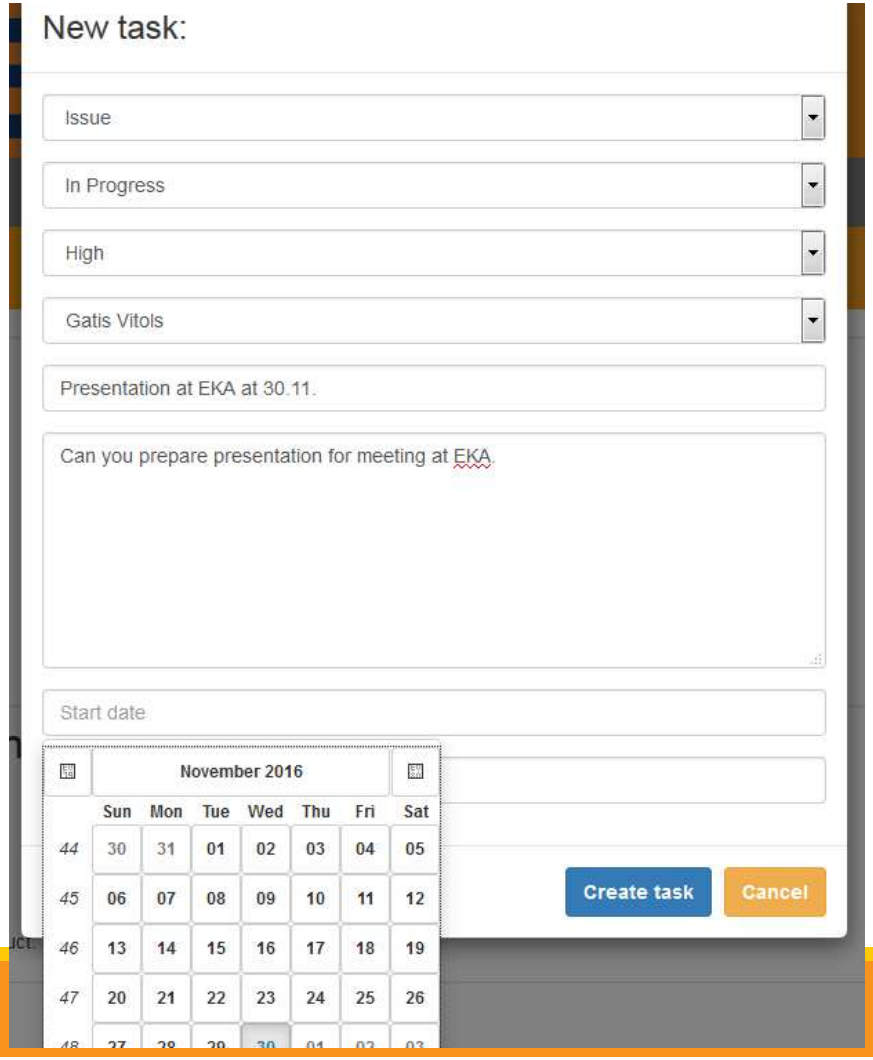
Mobile frontend add task



Mobile frontend new task screen



Mobile frontend new task screen



Performed quality assurance testing

Identification of web browser compatibility

Link validation

Styles validation

Form validation

Email notification validation

Plugin validation

Validating accessibility

Code validation (W3C standards)

Localization validation

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Thank you