

# REST API Design

for

# Professional Developer's Tool

**Prepared by**

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## Revision History

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## Table of Contents

Summary.....	4
Common exceptions.....	5
Data format.....	5
Account.....	5
Projects.....	9
Projects - Backlog.....	10
Projects - PBIs.....	11
Projects - Sprintlog.....	12
Projects - Tasks.....	14
Statistics.....	15
Chat system.....	16

## Summary

Method	URL	Short Description
GET	/account/userinfo	Retrives information about an user.
POST	/account/register	Registers a new account.
GET	/account/langs	Lists all possible languages and programmingLanguages.
POST	/account/edit	Edits the current user profile.
POST	/account/login	Login.
POST	/account/recoverpassword	Sends a new password to user's email.
GET	/account/listdevelopers	Retrives list of all developers.
GET	/projects/list	Retrives list of projects.
POST	/projects/create	Creates a new project.
POST	/projects/{idproj}/adddeveloper	Adds a developer to a project.
POST	/projects/{idproj}/remdeveloper	Removes a developer from a project.
POST	/projects/{idproj}/edit	Edits a project.
GET	/projects/{idproj}/getbacklog	Returns project's backlog, if it exists.
POST	/projects/{idproj}/createbacklog	Creates a new backlog.
POST	/projects/{idproj}/removebacklog	Delete a backlog.
POST	/projects/{idproj}/pbis/create	Create a new PBI.
POST	/projects/{idproj}/pbis/{idpbi}/edit	Edit a PBI.
POST	/projects/{idproj}/pbis/{idpbi}/delete	Delete a PBI.
GET	/projects/{idproj}/sprintlogs/list	Lists all sprintlogs.
POST	/projects/{idproj}/sprintlogs/create	Creates a new sprintlogs.
GET	/projects/{idproj}/sprintlogs/{idsprintlog}/listpbis	Lists all PBIs assigned to specific sprintlog.
POST	/projects/{idproj}/sprintlogs/{idsprintlog}/addpbi	Assigns a PBI to a specific sprintlog.
POST	/projects/{idproj}/sprintlogs/{idsprintlog}/removepbi	Deassigns a PBI from a specific sprintlog.
POST	/projects/{idproj}/sprintlogs/{idsprintlog}/delete	Deletes a sprintlog.
GET	/projects/{idproj}/pbis/{idpbi}/listtasks	Lists all tasks of a PBI
POST	/projects/{idproj}/pbis/{idpbi}/createtask	Creates a new task to PBI
POST	/projects/{idproj}/pbis/{idpbi}/tasks/{idtask}/edit	Edits task of a PBI
POST	/projects/{idproj}/pbis/{idpbi}/tasks/{idtask}/delete	Deletes task of a PBI
GET	/stats/devpoints	Retrives points of developers.
GET	/chat/{idproj}/list	Returns the list of available chat of specified project
POST	/chat/{idproj}/create	Creates a new chat into indicated project
GET	/chat/{idproj}/msg/{idchat}/list	Returns the last 20 messages of the chat
POST	/chat/{idproj}/msg/{idchat}/send	Sends a new message
GET	/chat/{idproj}/msg/{idchat}/polling	Polling requests for new message

## Common exceptions

All common exceptions has this syntax:

```
{
  "status" : "error",
  "reason" : "a human readable string describing the error"
}
```

Common exceptions can be raised in any request indicated in this document. Other specific exception is specified in each request table.

In case of common exception, HTTP status codes is not 200 bad changes as follow:

- Request error (e.g. GET instead of POST, etc.): 405
- User not authenticated: 403
- User has no permission to do that: 402 (abuse of unused HTTP error code)
- General back-end error: 500

The requests specified in this document that have no "dedicated" exceptions, can however provide a 200 error with format specified previously.

## Data format

All Date fields are written with string data type. All Date fields must be encoding in ISO8601 compliant format.

## Account

Path:	/account/userinfo
Request:	GET
Description:	Return information about current logged user or other user. If <i>id</i> is not specified, this request retrieves information for current user. If <i>id</i> is specified, it retrieves information about that user. NOTE: for security reason it's not possible to retrieve the password field (nor hashed).
Parameters:	None for retrieve information of current user. Otherwise: <ul style="list-style-type: none"> <li>• id : integer</li> </ul>
Authentication:	Needed.
Response format:	<pre>{   "id" : integer,   "firstname" : string,   "lastname" : string,   "sex" : string ("M" or "F"),   "dateOfBirth" : Date,   "country" : string,   "timezone" : string (IANA format),   "email" : string,   "languages" : [     string,     string,     ...   ],   "programmingLanguages" : [   (only for developers)     string,     string,     ...   ]   "type" : string ("stakeholder" or "developer") }</pre>

Exception 1 error code:	200 – User not exists
Exception 1 format:	{ "status" : "error" }

<b>Path:</b>	<b>/account/register</b>
<b>Request:</b>	<b>POST</b>
<b>Description:</b>	Register a new user. You need to specify if the user is "stakeholder" or "developer". In the latter case, you need to specify also "programmingLanguages" field. You can get a list of available languages invoking a request on /accout/langs NOTE: user's type cannot be changed after registration.
<b>Authentication:</b>	No. <sup>1</sup>
<b>Parameters:</b>	<ul style="list-style-type: none"> <li>• firstname : string</li> <li>• lastname : string</li> <li>• sex : string ("M" or "F")</li> <li>• dateOfBirth : Date</li> <li>• country : string</li> <li>• timezone : string (IANA format)</li> <li>• email : string</li> <li>• password : string (plain-text)</li> <li>• languages : string [ ]</li> <li>• programmingLanguages : string [ ] (only for developers)</li> <li>• "type" : string ("stakeholder" or "developer")</li> </ul>
<b>Response format:</b>	{ "status" : "ok" }
Exception 1 error code:	200 – E-Mail already exists
Exception 1 format:	{ "status" : "error", "code" : 1 }
Exception 2 error code:	200 – Wrong field value
Exception 2 format:	{ "status" : "error", "code" : 2, "field" : string (name of problematic field, e.g. "firstname" or "email") "reason" : " ... " }

<b>Path:</b>	<b>/account/langs</b>
<b>Request:</b>	<b>GET</b>
<b>Description:</b>	Returns the list of available programmingLanguages and "spoken" languages. This data is stored in the server and can be changed (with another program) only by administrator.
<b>Parameters:</b>	None.
<b>Authentication:</b>	No.

<sup>1</sup> It's not allowed creating new account by already authenticated user (in case, server returns a 405 http error).

Response format:	<pre>{   "languages" : [     string,     string,     ...   ],   "programmingLanguages" : [     string,     string,     ...   ], }</pre>
------------------	---

<b>Path:</b>	<b>/account/edit</b>
<b>Request:</b>	POST
<b>Description:</b>	Edits the current user profile. All parameters are optional, it is possible to specify only fields that will be changed. The old values of this parameters lost after update.
<b>Authentication:</b>	Needed.
<b>Parameters:</b>	<ul style="list-style-type: none"> <li>• firstname : string</li> <li>• lastname : string</li> <li>• sex : string ("M" or "F")</li> <li>• dateOfBirth : Date</li> <li>• country : string</li> <li>• timezone : string (IANA format)</li> <li>• email : string</li> <li>• password : string (plain-text)</li> <li>• languages : string [ ]</li> <li>• programmingLanguages : string [ ] (only for developers)</li> </ul>
<b>Response format:</b>	<pre>{   "status" : "ok" }</pre>
<b>Exception 1 error code:</b>	200 – E-Mail already exists
<b>Exception 1 format:</b>	<pre>{   "status" : "error",   "code" : 1 }</pre>
<b>Exception 2 error code:</b>	200 – Wrong field value
<b>Exception 2 format:</b>	<pre>{   "status" : "error",   "code" : 2,   "field" : string (name of problematic field, e.g. "firstname" or "email")   "reason" : " ..." }</pre>

<b>Path:</b>	<b>/account/login</b>
<b>Request:</b>	POST
<b>Description:</b>	Login by email and password. The reponse to this request sets cookie/session information (in case of login success). If the user's browser doesn't support cookies, login is not possible.
<b>Authentication:</b>	Not needed <sup>2</sup>

<sup>2</sup> In case the user is already authenticated, this request as no effects.

Parameters:	<ul style="list-style-type: none"> <li>email : string</li> <li>password : string (plain text)</li> </ul>
Response format:	{ "status" : "ok" }
Exception 1 error code:	200 – Login failed
Exception 1 format:	{ "status" : "error" }

<b>Path:</b>	<b>/account/logout</b>
<b>Request:</b>	GET
Description:	Delete the session cookies and log out user. After this call the user should be considered deauthenticated.
Parameters:	None.
Authentication:	Not needed. <sup>3</sup>
Response format:	{ "status" : "ok" }

<b>Path:</b>	<b>/account/recoverpassword</b>
<b>Request:</b>	POST
Description:	Sends an email to reset the password to the address stored in user profile. In email there is a newly generated random password.
Authentication:	No. <sup>4</sup>
Parameters:	<ul style="list-style-type: none"> <li>email : string</li> <li>dateOfBirth : Date</li> </ul>
Response format:	{ "status" : "ok" }
Exception 1 error code:	200 – Wrong fields
Exception 1 format:	{ "status" : "error", "reason" : "..." }

<b>Path:</b>	<b>/account/listdevelopers</b>
<b>Request:</b>	GET
Description:	Use this request to retrieve the list of all developers (use /account/userinfo to retrieve more information about a specific user).
Parameters:	None.
Authentication:	Needed.
Response format:	{

<sup>3</sup> In case the user is not authenticated, this request has no effects.

<sup>4</sup> Resetting password is not allowed by already authenticated user (in case, server returns a 405 http error).



```

    developers" : [
      { "id" : integer, "firstname" : string, "lastname" : string },
      { "id" : integer, "firstname" : string, "lastname" : string },
    ]
  }

```

## Projects

Path:	/projects/list
Request:	GET
Description:	This request returns a list of projects available (possibly empty) visible by current user or visible by a user identified by 'id'. This request can be used by any type of user.
Authentication:	Needed.
Parameters:	None for retrieve projects of current user. Otherwise: <ul style="list-style-type: none"> <li>id : integer</li> </ul>
Response format:	<pre> {   "projects" : [     {       "id" : integer       "name" : string ,       "description" : string,       "manager" : integer,       "stakeholder" : integer,       "creationDate" : Date       "developers" : [         integer,         integer,         ...       ],     },     { ... }   ] } </pre>

Path:	/projects/create
Request:	POST
Description:	Create a new project.
Authentication:	Needed, you must be a <i>stakeholder</i> user.
Parameters:	<ul style="list-style-type: none"> <li>name : string</li> <li>description : string</li> <li>manager : integer</li> </ul>
Response format:	<pre> {   "status" : "created"   "id" : integer } </pre>
Exception 1 error code:	200 – Project name already exists or some fields wrong
Exception 1 format:	{

	<pre> "status" : "error", "reason" : "..." } </pre>
--	---

<b>Path:</b>	<b>/projects/{idproj}/adddeveloper</b>
<b>Request:</b>	POST
<b>Description:</b>	Add developer to existent project
<b>Authentication:</b>	Needed, you must be a <i>manager</i> of that project.
<b>Parameters:</b>	<ul style="list-style-type: none"> <li>iddev : integer</li> </ul>
<b>Response format:</b>	<pre> {   "status" : "ok" } </pre>

<b>Path:</b>	<b>/projects/{idproj}/remdeveloper</b>
<b>Request:</b>	POST
<b>Description:</b>	Remove developer from existent project
<b>Authentication:</b>	Needed, you must be a <i>manager</i> of that project.
<b>Parameters:</b>	<ul style="list-style-type: none"> <li>iddev : integer</li> </ul>
<b>Response format:</b>	<pre> {   "status" : "ok" } </pre>

<b>Path:</b>	<b>/projects/{idproj}/edit</b>
<b>Request:</b>	POST
<b>Description:</b>	Edit a project. All parameters are optional, it is possible to specify only fields that will be changed.
<b>Authentication:</b>	Needed, you must be a <i>manager</i> of that project.
<b>Parameters:</b>	<ul style="list-style-type: none"> <li>name : string</li> <li>description : string</li> <li>manager : int</li> </ul>
<b>Response format:</b>	<pre> {   "status" : "ok" } </pre>

## Projects - Backlog

<b>Path:</b>	<b>/projects/{idproj}/getbacklog</b>
<b>Request:</b>	GET
<b>Description:</b>	Return the backlog (as list of PBIs) of specified project. If the project has no backlog an error is returned.
<b>Authentication:</b>	Needed.
<b>Parameters:</b>	None
<b>Response format:</b>	<pre> {   "description" : string,   "pbis" : [     { </pre>

	<pre>         "id" : integer         "name" : string ,         "description" : string,         "sprintlog" : integer/null,         "type" : string (enum),         "priority" : integer,         "creationDate" : Date       },       { ... }     ]   } </pre>
Exception 1 error code:	200 – Backlog not existent
Exception 1 format:	<pre> {   "backlog" : "no" } </pre>

<b>Path:</b>	<b>/projects/{idproj}/createbacklog</b>
<b>Request:</b>	POST
<b>Description:</b>	Creates a backlog for existent project. To add PBIs you need to use /projects/{idproj}/pbis/create request
<b>Authentication:</b>	Needed, you must be a <i>manager</i> of that project.
<b>Parameters:</b>	<ul style="list-style-type: none"> <li>description : string</li> </ul>
<b>Response format:</b>	<pre> {   "status" : "ok" } </pre>

<b>Path:</b>	<b>/projects/{idproj}/deletebacklog</b>
<b>Request:</b>	POST
<b>Description:</b>	Delete the backlog of specified project. <b>WARNING:</b> this action deletes also all PBIs, all tasks, and all sprint logs.
<b>Authentication:</b>	Needed, you must be a <i>manager</i> of that project.
<b>Parameters:</b>	None.
<b>Response format:</b>	<pre> {   "status" : "ok" } </pre>

## Projects - PBIs

<b>Path:</b>	<b>/projects/{idproj}/pbis/create</b>
<b>Request:</b>	POST
<b>Description:</b>	Create a PBI in current project. This PBI will be automatically added to current project's backlog
<b>Authentication:</b>	Needed, you must be a <i>manager</i> of that project.
<b>Parameters:</b>	<ul style="list-style-type: none"> <li>name : string</li> <li>description : string</li> <li>type : string (enum)</li> <li>priority : int</li> <li>dueDate : Date</li> </ul>

Response format:	{ "status" : "ok" }
Exception 1 error code:	200 – Wrong format of one or more fields
Exception 1 format:	{ "status" : "error", "field" : string (name of problematic field, e.g. "name" or "priority") "reason" : " ... " }

<b>Path:</b>	<b>/projects/{idproj}/pbis/{idpbi}/edit</b>
<b>Request:</b>	POST
Description:	Update information of indicated pbis of selected project. All parameters are optional, it is possible to specify only fields that will be changed.
Authentication:	Needed, you must be a <i>manager</i> of that project.
Parameters:	<ul style="list-style-type: none"> <li>• name : string</li> <li>• description : string</li> <li>• type : string (enum)</li> <li>• priority : int</li> </ul>
Response format:	{ "status" : "ok" }

<b>Path:</b>	<b>/projects/{idproj}/pbis/{idpbi}/delete</b>
<b>Request:</b>	POST
Description:	Delete a PBI from the project
Authentication:	Needed, you must be a <i>manager</i> of that project.
Parameters:	None.
Response format:	{ "status" : "ok" }

## Projects - Sprintlog

<b>Path:</b>	<b>/projects/{idproj}/sprintlogs/list</b>
<b>Request:</b>	GET
Description:	Return the list of sprintlogs of current project
Authentication:	Needed.
Parameters:	None
Response format:	{ "sprintlogs" : [ { "id" : integer "name" : string , "description" : string, "startDate" : Date, "endDate" : Date }, ] }

	<pre>{...}, ... ]</pre>
--	-------------------------

<b>Path:</b> /projects/{idproj}/sprintlogs/create	
<b>Request:</b>	POST
<b>Description:</b>	Create a new sprintlogs with list of pbis (you need to have created pbis before)
<b>Authentication:</b>	Needed, you must be a <i>manager</i> of that project.
<b>Parameters:</b>	<ul style="list-style-type: none"> <li>• name : string</li> <li>• description : string</li> <li>• startDate : Date</li> <li>• endDate: Date</li> <li>• idpbis : integer[]</li> </ul>
<b>Response format:</b>	<pre>{   "status" : "ok" }</pre>
<b>Exception 1 error code:</b>	200 – Wrong format of one or more fields
<b>Exception 1 format:</b>	<pre>{   "status" : "error",   "field" : string (name of problematic field, e.g. "name" or "priority")   "reason" : " ..." }</pre>

<b>Path:</b> /projects/{idproj}/sprintlogs/{idsprintlog}/listpbis	
<b>Request:</b>	GET
<b>Description:</b>	Return the list of PBIs associated to sprintlogs of current project
<b>Authentication:</b>	Needed.
<b>Parameters:</b>	None
<b>Response format:</b>	<pre>{   "pbis" : [ integer, integer, integer , ... ] }</pre>

<b>Path:</b> /projects/{idproj}/sprintlogs/{idsprintlog}/addpbi	
<b>Request:</b>	POST
<b>Description:</b>	Add already existent pbi to the sprintlog
<b>Authentication:</b>	Needed, you must be a <i>manager</i> of that project.
<b>Parameters:</b>	<ul style="list-style-type: none"> <li>• id : integer</li> </ul>
<b>Response format:</b>	<pre>{   "status" : "ok" }</pre>
<b>Exception 1 error code:</b>	200 – PBI does not exists or already assigned
<b>Exception 1 format:</b>	<pre>{   "status" : "error" }</pre>

<b>Path:</b> /projects/{idproj}/sprintlogs/{idsprintlog}/removepbi	
--	--

Request:	POST
Description:	Remove pbi from sprintlog (this method doesn't delete the pbi from project)
Authentication:	Needed, you must be a <i>manager</i> of that project.
Parameters:	<ul style="list-style-type: none"> <li>id : integer</li> </ul>
Response format:	<pre>{   "status" : "ok" }</pre>
Exception 1 error code:	200 – PBI does not exists or assigned to other sprintlog
Exception 1 format:	<pre>{   "status" : "error" }</pre>

<b>Path:</b>	<b>/projects/{idproj}/sprintlogs/{idsprintlog}/delete</b>
Request:	POST
Description:	Remove sprintlog from project. (NOTE: PBIs assigned are not delete, they remain in backlog)
Authentication:	Needed, you must be a <i>manager</i> of that project.
Parameters:	None.
Response format:	<pre>{   "status" : "ok" }</pre>

## Projects - Tasks

<b>Path:</b>	<b>/projects/{idproj}/pbis/{idpbi}/listtasks</b>
Request:	GET
Description:	Return the list of tasks associated to PBI indicated
Authentication:	Needed.
Parameters:	None
Response format:	<pre>{   "tasks" : [     {       "id" : integer,       "name" : string,       "description" : string,       "points" : integer,       "developer" : integer,       "state" : string (enum),       "pbi" : integer     },     ...   ] }</pre>

<b>Path:</b>	<b>/projects/{idproj}/pbis/{idpbi}/createtask</b>
Request:	POST

Description:	Add a task to indicated PBI.
Authentication:	Needed, you must be a <i>manager</i> of that project.
Parameters:	<ul style="list-style-type: none"> <li>• name : string</li> <li>• description : string</li> <li>• points : integer</li> <li>• developer : integer</li> <li>• state : string (enum)</li> <li>• pbi : integer</li> </ul>
Response format:	{ "status" : "ok" }

<b>Path:</b>	<b>/projects/{idproj}/tasks/{idtask}/delete</b>
<b>Request:</b>	POST
Description:	Delete the task from indicated Project.
Authentication:	Needed, you must be a <i>manager</i> of that project.
Parameters:	None.
Response format:	{ "status" : "ok" }
Exception 1 error code:	200 – Task does not exists or assigned to other PBI
Exception 1 format:	{ "status" : "error" }

<b>Path:</b>	<b>/projects/{idproj}/tasks/{idtask}/edit</b>
<b>Request:</b>	POST
Description:	Edit task indicated. All parameters are optional, it is possible to specify only fields that will be changed.
Authentication:	Needed, you must be a <i>manager</i> of that project.
Parameters:	<ul style="list-style-type: none"> <li>• name : string</li> <li>• description : string</li> <li>• points : integer</li> <li>• developer : integer</li> <li>• state : string (enum)</li> <li>• pbi : integer</li> </ul>
Response format:	{ "status" : "ok" }
Exception 1 error code:	200 – Task does not exists or assigned to other PBI
Exception 1 format:	{ "status" : "error" }

## Statistics

<b>Path:</b>	<b>/stats/devpoints</b>
<b>Request:</b>	GET
<b>Description:</b>	Returns the list of developers-points calculated by sum all points earned in each project.
<b>Authentication:</b>	Needed.
<b>Parameters:</b>	None
<b>Response format:</b>	<pre>{   "stats" :   [     { "dev" : integer, "points" : integer },     { "dev" : integer, "points" : integer },     { "dev" : integer, "points" : integer },     ...   ] }</pre>

<b>Path:</b>	<b>/stats/projpoints</b>
<b>Request:</b>	GET
<b>Description:</b>	Returns the list of developer-points (developer specified by parameter) calculated by sum all points earned in specified project.
<b>Authentication:</b>	Needed.
<b>Parameters:</b>	<ul style="list-style-type: none"> <li>• idproj : integer</li> <li>• iddev : integer</li> </ul>
<b>Response format:</b>	<pre>{   "points" : integer }</pre>

## Chat system

<b>Path:</b>	<b>/chat/{idproj}/list</b>
<b>Request:</b>	GET
<b>Description:</b>	Returns the list of available chat of specified project for current user. The response (possibly empty) contains an identifier of the chat and a list of users participating to that chat (not including current developer). 1-to-1 chat contains only 1 item in users array.
<b>Authentication:</b>	Needed.
<b>Parameters:</b>	None
<b>Response format:</b>	<pre>{   "chats" :   [     { "id" : integer, "users" : [ integer, integer, ... ] },     { "id" : integer, "users" : [ integer, integer, ... ] },     { "id" : integer, "users" : [ integer, integer, ... ] },     ...   ] }</pre>

<b>Path:</b>	<b>/chat/{idproj}/create</b>
<b>Request:</b>	POST



Description:	Creates a new chat into indicated project.
Authentication:	Needed.
Parameters:	<ul style="list-style-type: none"> <li>users : [ integer, integer, ....]</li> </ul>
Response format:	<pre>{   "status" : "ok" }</pre>
Exception 1 error code:	200 – Same chat already exists
Exception 1 format:	<pre>{   "status" : "error" }</pre>

<b>Path:</b>	<b>/chat/{idproj}/msg/{idchat}/list</b>
Request:	GET
Description:	This request returns list of last 20 messages (or less) of the chat. This should be used when user open the chat to retrieve the recent history.
Authentication:	Needed.
Parameters:	None
Response format:	<pre>{   "messages" :   [     { "id" : integer, "user" : integer, "text" : string, "date" : Date },     { "id" : integer, "user" : integer, "text" : string, "date" : Date }, ] },     { "id" : integer, "user" : integer, "text" : string, "date" : Date }, ] },     ...   ] }</pre>

<b>Path:</b>	<b>/chat/{idproj}/msg/{idchat}/polling</b>
Request:	GET
Description:	This request returns list of last messages from id indicated in parameters. You should call this method every time you want to check if there are new messages, passing the id of last message received.
Authentication:	Needed.
Parameters:	<ul style="list-style-type: none"> <li>lastid : integer</li> </ul>
Response format:	<pre>{   "messages" :   [     { "id" : integer, "user" : integer, "text" : string, "date" : Date },     { "id" : integer, "user" : integer, "text" : string, "date" : Date }, ] },     { "id" : integer, "user" : integer, "text" : string, "date" : Date }, ] },     ...   ] }</pre>

<b>Path:</b>	<b>/chat/{idproj}/msg/{idchat}/send</b>
--------------	---

Request:	POST
Description:	Sends a new message to the chat.
Authentication:	Needed.
Parameters:	<ul style="list-style-type: none"><li>• message : string</li></ul>
Response format:	<pre>{   "status" : "ok" }</pre>