

SlenderRestAPI Requirements and Installation

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Requirements

For this API the following libraries are required.

These libraries are available with Netbeans 8.0. Download link:

<https://netbeans.org/downloads/start.html?platform=windows&lang=en&option=javaee>

- Hibernate 4.x
- Persistence JPA 2.0
- Jersey 2.0 (JAX-RS RI)
- JAX-RS 2.0

These libraries can be found in the 'libs' folder of the SlenderRestAPI

- my-sql-connector-java-5.1.23
- javax.faces_2.1.7
- SlenderwareDomain
- slenderware-services-core

Create a MySQL database

Create a MySQL database using phpMyAdmin or any other MySQL database software. The database details are as follows:

Database Name:	gdqmxhyb_dev_slen
Port Number	3306
Database Username:	gdqmxhyb_slen
User Password	Request password from Slenderware team

Create MySQL database connection on Netbeans

Follow these steps after the MySQL database has been created.

- Navigate to 'Services' tab.
- Right-click -> New connection (Use Apache Server if asked).
- Select MySQL from the 'Driver' box (If MySQL is not found download the required Netbeans).
- Select next.
- Set the database name, username and password.
- Select finish.

Connect to MySQL database connection

- Navigate to 'Services' tab.
- Expand the databases node.

- Right-click Slenderware database. (Possibly: "jdbc:mysql://[domain]:3306/gdqmxyb_dev_slen/*")
- Select 'Connect'.

Adding libraries using maven

First time Setup

- Download and install Apache Maven 3.2.3
(<http://maven.apache.org/download.cgi#Installation>)
- Navigate to SlenderRestAPI project directory.
- Open command prompt at 'libs' folder within the project directory.
 - Shift + right-click the 'libs' folder.
 - Select 'Open command window here'
- Type in the following two command to install the third party (SlenderCoreServices and SlenderDomainServer) jars to the maven local repository.
 - `mvn install:install-file -Dfile=slenderware-services-core.jar -DgroupId=slender.services.core -DartifactId=slencore -Dversion=1.0 -Dpackaging=jar`
 - `mvn install:install-file -Dfile=slender-domain-server.jar -DgroupId=slender.services.data -DartifactId=slendata -Dversion=1.0 -Dpackaging=jar`

Routine Setup

- Right-click on project in the 'Projects' view.
- Select 'Build with Dependencies' (Or just 'Build').
- The dependencies will now download.

Adding libraries to project

- Right-click on project in the 'Projects' view.
- Select 'Properties'.
- Select 'Libraries' node.
- Select 'Add Library'
 - Select all the libraries that is part of the Netbeans version. See Requirements section.
- Select 'Add JAR/Folder'
 - Select all the JAR files in the 'libs' folder in the project's root directory.

Deploying the Rest API

- Right-click on project in the 'Projects' view.
- Click on 'Deploy'.

"SlenderRestAPI" REST Functions Guide

Projects

Get Project from ID

Path	[server-url]/slenderware-webservice-rest/webresources/projects/getProject	
Parameters	id	Project ID
Request Type	application/x-www-form-urlencoded	
Response Type	applicaton/json	

Get Project Users

Path	[server-url]/slenderware-webservice-rest/webresources/projects/getProjectUsers	
Parameters	id	Project ID
Request Type	application/x-www-form-urlencoded	
Response Type	applicaton/json	

Get Project Tasks

Path	[server-url]/slenderware-webservice-rest/webresources/projects/getProjectTasks	
Parameters	id	Project ID
Request Type	application/x-www-form-urlencoded	
Response Type	applicaton/json	

Get Project Comments

Path	[server-url]/slenderware-webservice-rest/webresources/projects/getProjectComments	
Parameters	id	Project ID
Request Type	application/x-www-form-urlencoded	
Response Type	applicaton/json	

Get Project Progress

Path	[server-url]/slenderware-webservice-rest/webresources/projects/getProjectProgress	
Parameters	id	Project ID
Request Type	application/x-www-form-urlencoded	
Response Type	text/plain	

Add New Project

Path	[server-url]/slenderware-webservice-rest/webresources/projects/getProjectProgress	
Parameters	projectName	String name of project

	projectDescription	String description of project
	startDate	Date the project should start. Format: yyy-dd-mm (E.g. 1991-27-03)
	endDate	Date the project should be finished by. Format: yyy-dd-mm (E.g. 1991-27-03)
	projectCreator	ID of the creator of the project
	projectManager	ID of the project manager
Request Type	application/x-www-form-urlencoded	
Response Type	text/plain	

Add Comment for Project

Path	[server-url]/slenderware-webservice-rest/webresources/projects/addProjectComment	
Parameters	userId	User ID
	project Id	Project ID
	comment	Comment Body Text
Request Type	application/x-www-form-urlencoded	
Response Type	applicaton/json	

Tasks

Get Task from ID

Path	[server-url]/slenderware-webservice-rest/webresources/tasks/getTask	
Parameters	id	Task ID
Request Type	application/x-www-form-urlencoded	
Response Type	applicaton/json	

Get Task Users

Path	[server-url]/slenderware-webservice-rest/webresources/tasks/getTaskUsers	
Parameters	id	Task ID
Request Type	application/x-www-form-urlencoded	
Response Type	applicaton/json	

Get Task Comments

Path	[server-url]/slenderware-webservice-rest/webresources/tasks/getTaskComments	
Parameters	id	Task ID
Request Type	application/x-www-form-urlencoded	
Response Type	applicaton/json	

Get Task Progress

Path	[server-url]/slenderware-webservice-rest/webresources/tasks/getProgress	
Parameters	id	Task ID
Request Type	application/x-www-form-urlencoded	
Response Type	text/plain	

Add New Task

Path	[server-url]/slenderware-webservice-rest/webresources/tasks/addTask	
Parameters	taskName	String of taskName
	taskDesc	String description of task
	plannedStartDate	Planned starting date. Format = yyyy-dd-mm (E.g 1991-27-03)
	plannedEndDate	Planned ending date. Format = yyyy-dd-mm (E.g 1991-27-03)
	projectId	ID of project
	timeAllocation	Amount of time allocated for task
	priorityId	(1 - low, 2 - medium, 3 - high)
Request Type	application/x-www-form-urlencoded	
Response Type	text/plain	

Add Comment for Task

Path	[server-url]/slenderware-webservice-rest/webresources/tasks/addTaskComment	
Parameters	userId	User ID
	taskId	Task ID
	comment	Comment Body Text
Request Type	application/x-www-form-urlencoded	
Response Type	applicaton/json	

Add Progress for Task

Path	[server-url]/slenderware-webservice-rest/webresources/tasks/addProgress	
Parameters	id	Task ID
	userId	User responsible for progress
	hours	Hours allocated
Request Type	application/x-www-form-urlencoded	
Response Type	applicaton/json	

Users

Get User from Session ID

Path	[server-url]/slenderware-webservice-rest/webresources/users/getUserBySession	
Parameters	sessionId	Session ID
Request Type	application/x-www-form-urlencoded	
Response Type	applicaton/json	

Get User Projects

Path	[server-url]/slenderware-webservice-rest/webresources/users/getUserProjects	
Parameters	sessionId	Session ID
Request Type	application/x-www-form-urlencoded	
Response Type	applicaton/json	

Get User Tasks

Path	[server-url]/slenderware-webservice-rest/webresources/users/getUserTasks	
Parameters	sessionId	Session ID
Request Type	application/x-www-form-urlencoded	
Response Type	applicaton/json	

Get Time Spent on Task by User

Path	[server-url]/slenderware-webservice-rest/webresources/users/getTimeSpentForTasks	
Parameters	sessionId	Session ID
	taskId	Task ID
Request Type	application/x-www-form-urlencoded	
Response Type	applicaton/json	

Get Time Spent on Project by User

Path	[[server-url]/slenderware-webservice-rest/webresources/users/getTimeSpentForProjects	
Parameters	sessionId	Session ID
	projectId	Project ID
Request Type	application/x-www-form-urlencoded	
Response Type	applicaton/json	

Add New User

Path	[server-url]/slenderware-webservice-rest/webresources/users/addUser	
Parameters	firstName	First Name

	lastName	Last Name
	username	Username
	password	Password
	email	Email address
	roleId	(1 - admin, 2 - user)
	companyId	ID of company new user belongs to
Request Type	application/x-www-form-urlencoded	
Response Type	text/plain	

Assign User To Project

Path	[server-url]/slenderware-webservice-rest/webresources/users/assignUserToProject	
Parameters	userId	User ID
	projectId	Project ID
Request Type	application/x-www-form-urlencoded	
Response Type	applicaton/json	

Assign User To Task

Path	[server-url]/slenderware-webservice-rest/webresources/users/assignUserToTask	
Parameters	userId	User ID
	taskId	Task ID
Request Type	application/x-www-form-urlencoded	
Response Type	applicaton/json	

Accounts

Authenticate

Path	server-url]/slenderware-webservice-rest/webresources/accounts/authenticate	
Parameters	username	Username
	password	Password
Request Type	application/x-www-form-urlencoded	
Response Type	applicaton/json	

Company

Add Company

Path	[server-url]/slenderware-webservice-rest/webresources/users/getUserBySession	
Parameters	companyName	String of company name
Request Type	application/x-www-form-urlencoded	

Response Type	applicaton/json
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Get Company Users

Path	[server-url]/slenderware-webservice-rest/webresources/company/getCompanyUsers	
Parameters	id	Company ID
Request Type	application/x-www-form-urlencoded	
Response Type	applicaton/json	

Problems and Errors

Known Exceptions and Errors	Resolution
Hibernate Exceptions	Ensure database are connected. Ensure MySQL and Apache server is running.
404 Request not found response	Ensure the SlenderRestAPI is deployed. Ensure the URL is correct.
CORS-Filter-Origin access denied	Make sure the request is not sent as JSON instead of a form POST.