

# LAR Project API Document

Version 0.0.5

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## HTTP Status Codes

Code	Name	Description
200	OK	Everything worked as expected.
400	Bad Request	Usually this results from missing a required parameter.
401	Unauthorized	No valid access token provided.
403	Forbidden	The access token is not valid for that request.
404	Not Found	The requested item doesn't exist.
429	Too Many Requests	You have been ratelimited for making too many requests to the server.
5XX	Server Error	Something went wrong on server.

## Available Types

### News

Parameters	Type	Description
ID	Integer	Unique identifier for this news.
Author	String	Name of person who creates this news.
Date	String	Date time when this news created, in ISO Date (RFC3339) format.
Title	String	The title of this news.
Text	String	The content of this news.

### Resource

Parameters	Type	Description
FileID	Integer	Unique identifier for this file.
FileName	String	Name of the document file.
FileRevision	String	File revision information.
AuthorizedBy	String	Name of people who authorize this file.
AuthorizedDate	String	Date of time this file is authorized. (Consider as modified time.)
CategoryID	Integer	Category unique identifier for this file.
URL	String	Link to the file.

### Option

Parameters	Type	Description
ID	String	Unique identifier for this option.
Name	String	Option name.

### \*ProjectEntity

Parameters	Type	Description
Number	String	Ptoject number (Unique identifier for this project).
Name	String	Project name.
ClientEntity	<a href="#">ClientProfileEntity</a>	Client profile.
Division	String	Division name.
ClientRepName	String	Client name.
ClientRepTelephone	Integer	Client telephone number.
ClientRepMobile	Integer	Client mobile number.
ClientRepEmailAddress	String	Client email address.
Director	String	Director.
Manager	String	Manager name.
Status	String	Project status.
StartDate	String	Project start date.
EndDate	String	Project end date.
Type	String	Project type.
Address	String	Project address.
Suburb	String	Project address.
Location	String	Project address.
Description	String	Project description.
Value	String	Project value.

### \*StaffProfileEntity

Parameters	Type	Description
FirstName	String	Staff first name.
LastName	String	Staff last name.
PositionTitle	String	Staff title.
DivisionName	String	Staff division.

PhoneExtension	Integer	Phone number extension.
MobileNumber	Integer	Staff mobile number.
EmailAddress	String	Staff email address.
PhotoURL	String	Staff profile photo url.

### **\*ClientProfileEntity**

Parameters	Type	Description
ClientOffice	String	Client office name.
ClientName	String	Client name.
ClientABNNumber	Integer	ABN Number
ClientACNNumber	Integer	ACN Number
ClientType	String	Client type.
FirstName	String	Client first name.
LastName	String	Client last name.
ClientLocation	String	Client location. (address details)
StreetAddress	String	
StreetSuburb	String	
StreetState	String	
StreetPostcode	Integer	
PostalAddress	String	
PostalAddressSuburb	String	
PostalAddressState	String	
PostalAddressPostcode	Integer	
PhoneNumber	Integer	Client telephone number.
FaxNumber	Integer	Client fax number.
MobileNumber	Integer	Client mobile number.
EMailAddress	String	Client email address.

## File

Parameters	Type	Description
FileID	Integer	Unique identifier for this file.
FileName	String	Name of the the file.
URL	String	Link to the file.

## HelpDeskTicket

Parameters	Type	Description
TicketID	Integer	Unique identifier for this ticket.
Status	String	The status of the ticket. ("open"/"closed")
Situation	String	Situation of the problem.
Username	String	The username.
Computer	String	The PC name (hostname).
Description	String	Description the problem.
File	<a href="#">File</a> Array	File related to this problem. e.g. screen capture, log file.

## Project

Parameters	Type	Description
ID	String	Unique identifier for this project.
Name	String	Project name.
ClientName	String	Client rep name.
Company	String	Company name (client name).
Address	String	Project address.
Division	String	Project division.

## User

Parameters	Type	Description
ID	String	Unique identifier for this user.
Name	String	Staff name.
PhoneNumber	String	Mobile number.
PhoneExtension	String	Phone extension for internal call.
Email	String	Email address.

## Client

Parameters	Type	Description
ID	String	Unique identifier for this user.
Name	String	Staff name.
PhoneNumber	String	Mobile number.
FaxNumber	String	Fax Number.
Address	String	Address.

## Division

Parameters	Type	Description
EmailAddress	String	User email address.
Name	String	User name (first name + last name).
MobileNumber	String	Mobile number.
PhoneExtension	String	Phone extension.
PhotoURL	String	Photo url.
PositionTitle	String	Position title.
Username	String	Username for system.





## Available Methods

### getNews

Use this method to obtain announcements.

Parameters	Type	Required	Description
StartDate	String	Optional	Define date time the announcement message posted in ISO Date (RFC3339) format.
EndDate	String	Optional	
Length	Integer	Optional	Number of announcement message required.

Note: RFC3339 is in form of "2006-01-02T15:04:05Z".

If "StartDate" is not specified, server will assume the "StartDate" is "0001-01-01T00:00:00Z". If "EndDate" is not specified, server will assume the "EndDate" is the time when server receives the API request (accurate to second).

On success, the array of [News](#) is returned. If no parameter is set, the response will contain all announcement message the database has.

### createNews

Use this method to create a new announcement message.

Parameters	Type	Required	Description
Author	String	Yes	Name of person who creates this news.
Date	String	Yes	Date time when this news created, in ISO Date (RFC3339) format.
Title	String	Yes	The title of this news.
Text	String	Yes	The content of this news.

On success, the new [News](#) is returned.

### updateNews

Use this method to update a specific announcement message. The request is [News](#), and all parameters are required. On success, the updated [News](#) is returned.

### removeNews

Use this method to remove a specific announcement message. The request is [News](#), only ID is required. On success, the response is empty.

## recent

Use this method to obtain recent documents.

Parameters	Type	Required	Description
Length	Integer or String	Optional	Number of announcement contained by response.

On success, the array of [Document](#) is returned. If no parameter is set, the length of [Document](#) is "3".

## getResources

Use this method to obtain files belong a specific category.

Parameters	Type	Required	Description
CategoryID	Integer	Yes	Name of people who create this suggestion message.

On success, the array of [Document](#) is returned.

Note: CategoryID details are shown below.

Category ID	Category Name
1	Quality Assurance
2	Human Resources
3	Occupational Health & Safety
4	Company Forms
5	Insurance Certificates
6	Information Technology
7	Certificates
8	Operations
9	Company Policies
11	General Documents

## getOptionLocations

Use this method to obtain project locations. On success, the array of [Option](#) is returned.

## getOptionTypes

Use this method to obtain project types. On success, the array of [Option](#) is returned.

## getOptionStatuss

Use this method to obtain project statuss. On success, the array of [Option](#) is returned.

## getOptionDivisions

Use this method to obtain divisions for project. On success, the array of [Option](#) is returned.

## getOptionOffices

Use this method to obtain project offices. On success, the array of [Option](#) is returned.

## createSuggestion

Use this method to create a suggestion message.

Parameters	Type	Required	Description
Author	String	Yes	Name of person who creates this suggestion message.
Text	String	Yes	The content of this suggestion message.

On success, the response is empty.

## createHelpDeskTicket

Use this method to create a help request ticket.

Parameters	Type	Required	Description
Situation	String	Yes	Situation of the problem.
Username	String	Yes	The username.
Computer	String	Yes	The PC name (hostname).
Description	String	Yes	Description the problem.
Files	<a href="#">File</a> Array	Optional	File related to this problem. E.g. screen capture, log file.

On success, the new [HelpDeskTicket](#) is returned.

## getHelpDeskTickets

Use this method to obtain all help desk request tickets. On success, the array of [HelpDeskTicket](#) is returned.

## searchProjects

Use this method to make an internal search. On success, the array of [Project](#) is returned.

Parameters	Type	Required	Description
Keyword	String	Yes	Search keywords inputted by the user.

## searchUsers

Use this method to make an internal search. On success, the array of [User](#) is returned.

Parameters	Type	Required	Description
Keyword	String	Yes	Search keywords inputted by the user.

## searchClients

Use this method to make an internal search. On success, the array of [Client](#) is returned.

Parameters	Type	Required	Description
Keyword	String	Yes	Search keywords inputted by the user.

## searchResources

Use this method to make an internal search. On success, the array of [Resource](#) is returned.

Parameters	Type	Required	Description
Keyword	String	Yes	Search keywords inputted by the user.

## searchRedbook

Use this method to make an internal search. On success, the array of [Projects](#) is returned.

Parameters	Type	Required	Description
ClientName	String	Optional	Client name of this project.
Address	String	Optional	Project address.
Suburb	String	Optional	Project address.
Location	String	Optional	Project location. Use ID obtained from <a href="#">getOptionLocations</a> .
Type	String	Optional	Project type. Use ID obtained from <a href="#">getOptionTypes</a> .
Status	String	Optional	Project current status. Use ID obtained from <a href="#">getOptionStatuss</a> .
Division	String	Optional	Project division. Use <b>Name</b> obtained from <a href="#">getOptionDivisions</a> .
Office	String	Optional	Project office. Use ID obtained from <a href="#">getOptionOffices</a> .
StartDate	String	Optional	Start and end date. It should in ISO Date (RFC3339) format.
EndDate	String	Optional	

## uploadFile

In this method, "Content-Type: multipart/form-data" is utilized instead of "Content-Type: application/json".

Parameters	Type	Required	Description
Files	multipart/form-data	Yes	Use HTML <form> Element to submit a file.

On success, the array of [File](#) is returned.

## getProject

Use this method to obtain specific project details. On success, the [Project](#) is returned.

Parameters	Type	Required	Description
ProjectNumber	String	Yes	Project number.

## createProject

Use this method to create a new project. The request is [Project](#), and all parameters are required. On success, the updated [Project](#) is returned.

## updateProject

Use this method to update a specific project. The request is [Project](#), and all parameters are required. On success, the updated [Project](#) is returned.

## removeProject

Use this method to remove a specific project. The request is [Project](#), only ProjectNumber is required. On success, the response is empty.

## getClient

Use this method to obtain specific client details. On success, the [Client](#) is returned.

Parameters	Type	Required	Description
ClientID	String	Yes	Client ID.

## createClient

Use this method to create a new client. The request is [Client](#), and all parameters are required. On success, the updated [Client](#) is returned.

## updateClient

Use this method to update a specific client. The request is [Client](#), and all parameters are required. On success, the updated [Client](#) is returned.

## removeClient

Use this method to remove a specific client. The request is [Client](#), only ClientID is required. On success, the response is empty.

## getWatchedProjects

Use this method to obtain a list of watched projects. On success, the array of [Project](#) is returned.

Parameters	Type	Required	Description
Username	String	Yes	Username of a person.

## fetchSuggestions

Use this method to obtain a list of suggestion keyword for autocomplete. On success, the array of string is returned.

Parameters	Type	Required	Description
Keyword	String	Yes	Keyword user input.

## getSuggestionItemURL

Use this method to obtain the specific url based on the given keyword. On success, a string is returned.

Parameters	Type	Required	Description
Keyword	String	Yes	Keyword user selected.

## getDivisions

Use this method to obtain divisions for project. On success, the array of [Division](#) is returned.

Parameters	Type	Required	Description
Division	String	Yes	Division name.
Office	String	Yes	Office code.

## getMe

Use this method for user authentication. On success, a string of token is returned.

Parameters	Type	Required	Description
Username	String	Yes	Username of the user.
PAssword	String	Yes	Password of the user.



## Changelog

### \* Tue Aug 15 2017 - 0.0.2

- Add default value explanation for [Anncmnt](#).
- Split "remove [AnncmntMsgEntity](#)" function from [updateAnncmnt](#).
- [DocumentEntity](#) has modified time, which is "AuthorizedDate".
- Remove "Author" parameter from all methods because user should be identified automatically by server through Windows Directory (LDAP).
- Update [getHelpReqTkt](#) because "TicketID" is not required in obtaining all ticket records.
- Change method name from [Search](#) to [InternalSearch](#).
- Add new method [uploadFile](#).

### \* Wed Aug 23 2017 - 0.0.3

- Change type [AnncmntMsgEntity](#) to [News](#).
- Change method [Anncmnt](#) to [getNews](#).
- Change method [createAnncmnt](#) to [createNews](#).
- Change method [updateAnncmnt](#) to [updateNews](#).
- Change method [removeAnncmnt](#) to [removeNews](#).
- Change method [RecentDoc](#) to [recent](#).
- Change type [DocumentEntity](#) to [Resource](#).
- Change method [getDocument](#) to [getResources](#).
- Mask type/method with asterisk as unstable. Otherwise, it is stable.
- Change method [makeSugg](#) to [makeSuggestion](#).
- Change method [createHelpReqTkt](#) to [createHelpDeskTicket](#).
- Change method [getHelpReqTkt](#) to [getHelpDeskTickets](#).
- Change method [ProjectAdvSearch](#) to [RedbookSearch](#).

### \* Thu Aug 24 2017 - 0.0.5

- Add type [Option](#).
- Add [getOptionLocations](#).
- Add [getOptionTypes](#).
- Add [getOptionStatuss](#).
- Add [getOptionDivisions](#).
- Add [getOptionOffices](#).

### \* Sun Aug 27 2017 - 0.0.6

- Change type [FileEntity](#) to [File](#).
- Change method [makeSugg](#) to [createSuggestion](#).
- Remove [SuggMsgEntity](#).
- Change [HelpReqTicket](#) to [HelpReqTicket](#).
- Update [createHelpReqTicket](#).
- Update [getHelpDeskTickets](#).
- Change [RedbookSearch](#) to [searchRedbook](#).
- Remove [searchRes](#).
- Add type [Projects](#) to represent project search results.
- Add type [Users](#) for internal search result.
- Add type [Clients](#) for internal search result.
- Remove [InternalSearch](#).
- Add method [searchProjects](#).
- Add method [searchUsers](#).
- Add method [searchClients](#).
- Add method [searchResources](#).

- \* Sun Sep 10 2017 - 0.0.7
  - Change type [Users](#) to [User](#).
  - Change type [Projects](#) to [Project](#).
  - Change type [Clients](#) to [Client](#).
  - Add method [createProject](#).
  - Add method [updateProject](#).
  - Add method [removeProject](#).
  - Add method [createClient](#).
  - Add method [updateClient](#).
  - Add method [removeClient](#).
  - Add method [getWatchedProjects](#).
- \* Thu Sep 21 2017 - 0.0.8
  - Add method [fetchSuggestions](#).
  - Add method [getSuggestionItemURL](#).
  - Add method [getDivisions](#).
- \* Sun Oct 1 2017 - 0.0.9
  - Add method [getMe](#).