6 API documents

6.0 Database schema

1.1 User account data

The user account is the identity created for coordinators and students in the system. The user account data includes personally identifiable information and authentication.

Coordinator

Field	Type	Null	Key	Default	Extra
id	int	No	PRI	NULL	auto_increment
username	varchar(30)	No	UNI	NULL	
email	varchar(128)	No	UNI	NULL	
password	varchar(256)	No		NULL	
create_date	Date	No		NULL	
update_date	Date	No		NULL	

Student

Field	Type	Null	Key	Default	Extra
id	int	No	PRI	NULL	auto_increment
username	varchar(30)	No	UNI	NULL	
email	varchar(128)	No	UNI	NULL	
password	varchar(256)	No		NULL	
create_date	Date	No		NULL	
update_date	Date	No		NULL	
git_username	varchar(30)	Yes	UNI	NULL	
atl_uername	varchar(30)	Yes	UNI	NULL	
slack_username	varchar(30)	Yes	UNI	NULL	
team_number	int	Yes	MUL	NULL	

1.2 Team data

Team data includes the basic details about the team, and members.

Team

Field	Type	Null	Key	Default	Extra
team_id	int	No	PRI	NULL	auto_increment
team_name	varchar(256)	No		NULL	
description	varchar(256)	Yes		NULL	
project_id	int	No	MUL	NULL	
project_name	varchar(256)	No		NULL	

Team_member

Field	Type	Null	Key	Default	Extra

id	int	No	PRI	NULL	auto_increment
team_id	int	Yes	MUL	NULL	
student_id	int	Yes	MUL	NULL	

1.3 Report and Project Data

The report data includes the process quality, product quality and communication for each team, and the individual quality for each student.

Project data records the basic information about the project.

Project

Field	Type	Null	Key	Default	Extra
project_id	int	No	PRI	NULL	auto_increment
project_name	varchar(128)	No		NULL	
description	varchar(256)	Yes		NULL	
team_id	int	Yes	MUL	NULL	

Process_quality

Field	Type	Null	Key	Default	Extra
process_id	int	No	PRI	NULL	auto_increment
process_name	varchar(128)	No		NULL	
quality_report	varchar(256)	Yes		NULL	
team_id	int	Yes	MUL	NULL	

Product_quality

Field	Type	Null	Key	Default	Extra
product_id	int	No	PRI	NULL	auto_increment
product_name	varchar(128)	No		NULL	
quality_report	varchar(256)	Yes		NULL	
team_id	int	Yes	MUL	NULL	

Communication_quality

Field	Type	Null	Key	Default	Extra
communication_id	int	No	PRI	NULL	auto_increment
communication_name	varchar(128)	No		NULL	
quality_report	varchar(256)	Yes		NULL	
team_id	int	Yes	MUL	NULL	

Individual_contribution

Field	Type	Null	Key	Default	Extra
contribution_id	int	No	PRI	NULL	auto_increment
contribution_name	varchar(128)	No		NULL	

| quality_report | varchar(256) | Yes | | NULL | |
| student_id | int | Yes | MUL | NULL | |

6.1 Subject

API Overview

API	URL	Method	Completed or Not
Add Subject	/api/:version/subject	POST	
Update Subject	/api/:version/subject/:id/update	POST	
Delete Subject	/api/:version/subject/:id/delete	POST	
Get Subject	/api/:version/subject/:id	GET	
Multi-Get Subject	/api/:version/subject	GET	

API Detail

Add Subject

Request

Item	Type	Necessary
name	string	true
code	string	true
coordinator_id	int	false

Response

Item	Type	Necessary	Note
code	int	true	statue code invalid_parameter: -2 subject_existed: -7 success: 0
message	string	true	error message

Update Subject

Request

Item	Type	Necessary
id	int	true
name	string	false
code	string	false
coordinator_id	int	false

Response

Item	Type	Necessary	Note
code	int	true	statue code invalid_parameter: -2 success: 0
message	string	true	error message

Delete Subject

Request

Item	Type	Necessary
id	int	true

Response

Item	Type	Necessary	Note
code	int	true	statue code invalid_parameter: -2 success: 0
message	string	true	error message

Get Subject

Request

Item	Type	Necessary
id	int	true

Response

Item	Type	Necessary	Note
code	int	true	statue code invalid_parameter: -2 success: 0
message	string	true	error message
data	object	true	

Data

Item	Type	Necessary
id	int	true
name	string	true
code	string	true
coordinator	object	true
teams	int[]	true
status	int	true

Coordinator

Item	Type	Necessary
id	int	true
name	string	true
email	string	true
join_date	int	true
status	int	true

Multi-Get Subject

Request

Item	Type	Necessary	Note

offset	int	false	default=0

Response

Item	Type	Necessary	Note
code	int	true	statue code success: 0
message	string	true	error message
data	object	true	

Data

Item	Type	Necessary	Note
ids	int[]	true	list of subject ids
has_more	int	true	
offset	int	true	

6.2 Project

API Overview

API	URL	Method	Completed or Not
Create Project	/api/:version/subject/:subject_id/project	POST	
Update Project	/api/:version/subject/:subject_id/project/update	POST	
Get Projects	/api/:version/subject/:subject_id/project	GET	

API Detail

Create Project

Request

Item	Type	Necessary	Note
project_name	stirng	true	
description	string	true	
start_date	int	true	
expired	int	false	the expired time of this project
supervisor_id	int	false	

Response

Item	Type	Necessary	Note
code	int	true	status code
message	string	true	error message

Update Project

Request

Item	Type	Necessary	Note
project_name	stirng	true	
description	string	false	
start_date	int	false	
expired	int	false	the expired time of this project
supervisor_id	int	false	

Response

Item	Type	Necessary	Note
code	int	true	status code
message	string	true	error message

Get Projects

Request

Item	Type	Necessary	Note
ids	int[]	false	
start_date	int	false	
expired	int	false	the expired time of this project

offset	int	false	

Response

Item	Type	Necessary	Note
code	int	true	status code
message	string	true	error message
body	object	true	

Body

Item	Type	Necessary
projects	project[]	true
has_more	boolean	true
offset	int	true

Project

Item	Type	Necessary
id	int	true
name	string	true
description	string	true
create_date	int	true
expired	int	true

6.3 Team

API Overview

API	URL	Method	Completed or Not
Create Team	/api/:version/team	POST	
Get Team List	/api/:version/team	GET	
Get Team Members	/api/:version/team/:id	GET	
Update Team	/api/:version/team/:id	POST	
Configure Team Member	/api/:version/team/:id/members/:team_member_id	POST	
Get Team Member Configuration	/api/:version/team/:id/members/:team_member_id	GET	
Configure Team	/api/:version/team/:team_id/configuration	POST	

API Detail

Create Team

Request

Item	Type	Necessary	Note
team_name	stirng	true	team_name should be exactly the same as that in confluence

Response

Item	Type	Necessary	Note
code	int	true	status code
message	string	true	error message

Get Team List

Request

Item	Type	Necessary	Note
account_id	int	true	
offset	int	false	default=0

Response

Item	Type	Necessary	Note
code	int	true	status code
message	string	true	error message
body	object	true	

Body

Item	Type	Necessary	Note
teams	team[]	true	team list
has_more	boolean	true	
offset	int	true	

Get Team Members

Request

Item	Type	Necessary
team_id	int	true

Response

Item	Type	Necessary	Note
code	int	true	status code
message	string	true	error message
body	object	true	

Body

Item	Type	Necessary	Note
name	string	true	team name
members	object[]	true	students

Update Team

Request

Item	Type	Necessary
team_id	int	true

Response

Item	Type	Necessary	Note
code	int	true	status code
message	string	true	error message

Configure Team Member

Request

Item	Type	Necessary	Note
team_id	int	true	in url
team_member_id	int	true	in url
git_name	string	false	
slack_email	string	false	
atl_account	string	false	

Response

Item	Type	Necessary	Note
code	int	true	status code
message	string	true	error message

Get Team Member Configuration

Request

Item	Type	Necessary	Note
team_id	int	true	in url
team_member_id	int	true	in url

Response

Item	Type	Necessary	Note
code	int	true	status code
message	string	true	error message
data	object	true	

Data

Item	Type	Necessary	Note
git_name	string	true	
slack_email	string	true	
atl_account	string	true	

6.4 Confluence

API Overview

API	URL	Method	Completed or Not
Get Confluence Space	/api/:version/confluence/space/:space_key	GET	
Get Pages by Confluence Space	/api/:version/confluence/space/:space_key/pages	GET	
Get a Page and its Contributors	/api/:version/confluence/space/:space_key/pages/:page_id	GET	
Get all accessible user groups	/api/:version/confluence/groups	GET	
Get members by user group	/api/:version/confluence/groups/:group_name/members	GET	
Get a user's details	/api/:version/confluence/users/:username	GET	
Search team by year or subject code	/api/:version/confluence/groups/searchteam/:keyword	GET	
Get team members	/api/:version/confluence/groups/:group/members	GET	
Get supervisors in a subject	/api/:version/subject/:subjectcode/:year/supervisors	GET	

API Detail

Get Confluence Space

Request

Item	Type	Necessary	Note
space_key	string	true	In the form of COMP900822021SM1SP

Response

Item	Type	Necessary	Note
code	int	true	statue code success: 0 failure: -1
message	string	true	error message
data	object	false	

Data

Item	Type	Necessary
id	int	true
key	string	true
name	string	true
home_page	object	true

Home_page

Item	Type	Necessary
id	string	true
type	string	true
title	string	true

Get Pages by Confluence Space

Request

Item	Type	Necessary	Note
space_key	string	true	In the form of COMP900822021SM1SP

Response

Item	Type	Necessary	Note
code	int	true	statue code success: 0 failure: -1
message	string	true	error message
data	object[]	false	

Data

Item	Type	Necessary	Note
id	string	true	
type	string	true	should be "pages" for all instances
title	string	true	

Get a Page and its Contributors

Request

Item	Type	Necessary	Note
space_key	string	true	In the form of COMP900822021SM1SP
page_id	int	true	

Response

Item	Type	Necessary	Note
code	int	true	statue code success: 0 failure: -1
message	string	true	error message
data	object	false	

Data

Item	Type	Necessary
createdBy	object	true
createdDate	string	true
contributors	object	true

createdBy

contributors

Get all accessible user groups

Request

Response

Data

Get members by user group

Request

Response

Data

Get a user's details

Request

Response

Data

Search team by year or subject code

Request

Response

Data

Get team members

Request

Response

Data

Get supervisors in a subject

Request

Response

Data

6.5 Jira

6.6 Git

API Overview

API	URL	Method	Completed or Not
Get Git Log Data	:/api/:version/git/commit	POST	
Get Pull Request	:/api/:version/git/pullrequest	POST	

API Detail

Get Git Log Data

Request

Response

Data

Get Pull Request

Request

Response

Data

Delete Subject

Request

Response

Data

Get Subject

Request

Response

Data

Multi-Get Subject

Request

Response

Data