Rest API

1. Project

1.1 Data Type

```
Project {
        id (integer),
        name (string),
        image (string, optional),           ** Image file name. TODO: refactor to image file content instead of file name
        organizationId,
        organizationName (string),
        briefDescription (string),          ** This is the brief description which has length limit
        detailedDescription (string),       ** This is the detailed description
        remote (string),                    ** Whether this is a remote project or not, value: [ Y | N ]
        address1(string, optional),
        address2(string, optional),
        city(string, optional),
        state (string, optional),
        country (string, optional),
        zip (string, optional),
        createDate (string),                ** The date that project is created
        status (string)                     ** Project status, value: [Pending | Active | Completed | Cancelled]
}
```

1.2 Operations

Operation	Method	Description
/api/project/all	GET	Returns all projects. Sort by post date in descending order.
/api/project/search/byId/{id}	GET	Search for project by ID.
/api/project/search/byKeyword/{keyWord}	GET	Search for projects by keyword. Search for keyword in: - project name - project description - organization name

/api/project/create	POST	Create a project. Study how to save an image file to database column.
/api/project/update	PUT	Update a project.
/api/project/delete/{id}	DELETE	Delete a project. Soft delete by marking the database record as deleted, don't delete the physical record.
/api/project/bookmark/save/{projectId, userId}	POST	Add the project to user’s bookmark 1. Insert a record into database table: BOOKMARK
/api/project/bookmark/search/{ userId}	GET	Retrieve bookmarked projects for the user
/api/project/apply/{projectId, userId}		Apply for the project. 1. Insert a record into database table: Application_Project 2. Send an email notification to organization with Email from: info@code4socialgood.org Email to: organization email Subject: You received an application for project Body: You received an application for project xxx. Please contact the application at <applicant email address>

2. Organization

2.1 Data Type

```
Organization {
        id (integer),
        name (string),
        logo (string, optional),                ** Logo file name
        briefDescription (string),              ** This is the brief description which has length limit
        detailedDescription (string),           ** This is the detailed description
        address1(string),
        address2(string, optional),
        state (string, optional),
        country (string),
        createDate (string),                    ** The date that project is created
        status (string)                         ** Organiation status, value: [Pending | Active | Deleted]
}
```

2.2 Operations

Operation	Method	Description
/api/organization/all	GET	Returns all organiations. Sort by post date in descending order.
/api/organization/search/byId/{id}	GET	Search for organization by ID.
/api/organization/search/byKeyword/{keyWord}	GET	Search for organizations by keyword. - organization name - organization description
/api/organization/create	POST	Create an organization.
/api/organization/update	PUT	Update an organization.
/api/organization/delete/{id}	DELETE	Delete an organization. Soft delete by marking the database record as deleted, don't delete the physical record.

3. User

3.1 Data Type

```
User {
        id (integer),
        TBD
}
```

3.2 Operations

Operation	Method	Description
/api/user/all	GET	Returns all organiations. Sort by post date in descending order.
/api/user/search/byId/{id}	GET	Search for user by ID.
/api/user/search/byUsername/{username}	GET	Search for user by username. This is wildcard search.
/api/user/search/byName/{firstName, lastName}	GET	Search for user by first name and last name. This is wildcard search.
/api/user/create	POST	Create a user.
/api/user/update	PUT	Update a user.

/api/user/delete/{id}	DELETE	Delete a user. Soft delete by marking the database record as deleted, don't delete the physical record.