Project APIs

Create a project

Endpoint: POST /api/projects

This API would be used to create a new project

Body
Name - Name of project
Description - Description of project

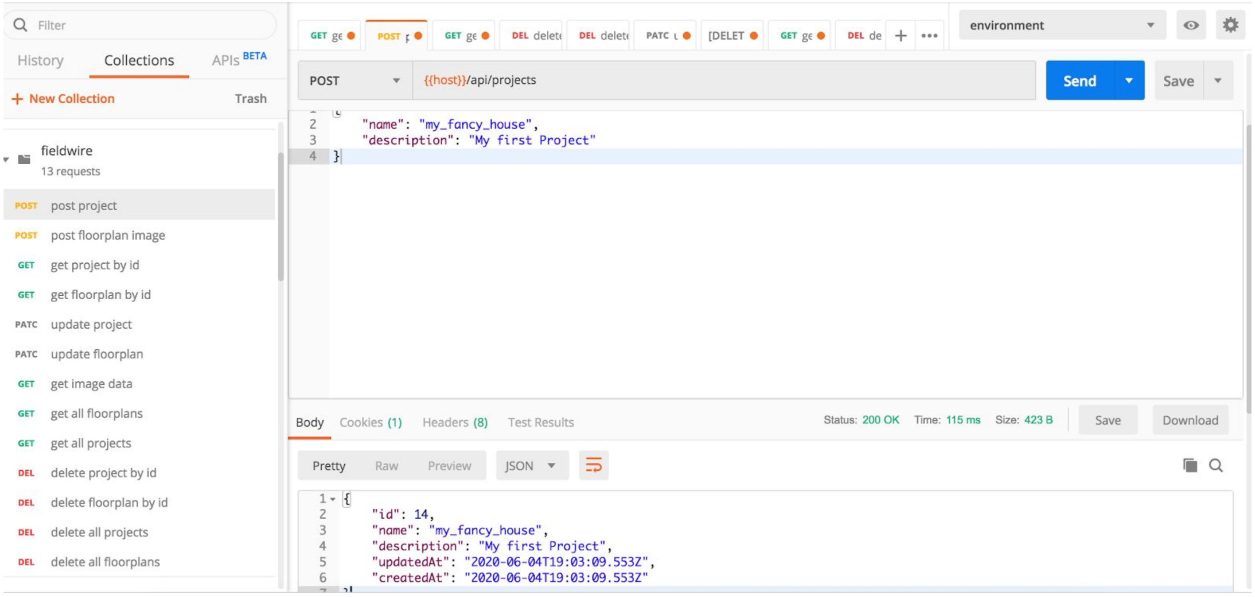
Returns
Returns a project object

Sample Request

```
curl -X POST \
  http://localhost:8080/api/projects \
  -d '{
    "name": "my_fancy_house",
    "description": "My first Project"
}'
```

Sample Response

```
{
    "id": 14,
    "name": "my_fancy_house",
    "description": "My first Project",
    "updatedAt": "2020-06-04T19:03:09.553Z",
    "createdAt": "2020-06-04T19:03:09.553Z"
}
```



POST {{host}}/api/projects

```
    "name": "my_fancy_house",
    "description": "My first Project"
}
```

```
{
    "id": 14,
    "name": "my_fancy_house",
    "description": "My first Project",
    "updatedAt": "2020-06-04T19:03:09.553Z",
    "createdAt": "2020-06-04T19:03:09.553Z"
```

Create Floorplans

Endpoint: POST /api/projects/:id/floorplans

This API would be used when the user uploads floorplans for a particular project

Path Parameters
Id - Project id

Body Parameters:
Key - photo
value - image file

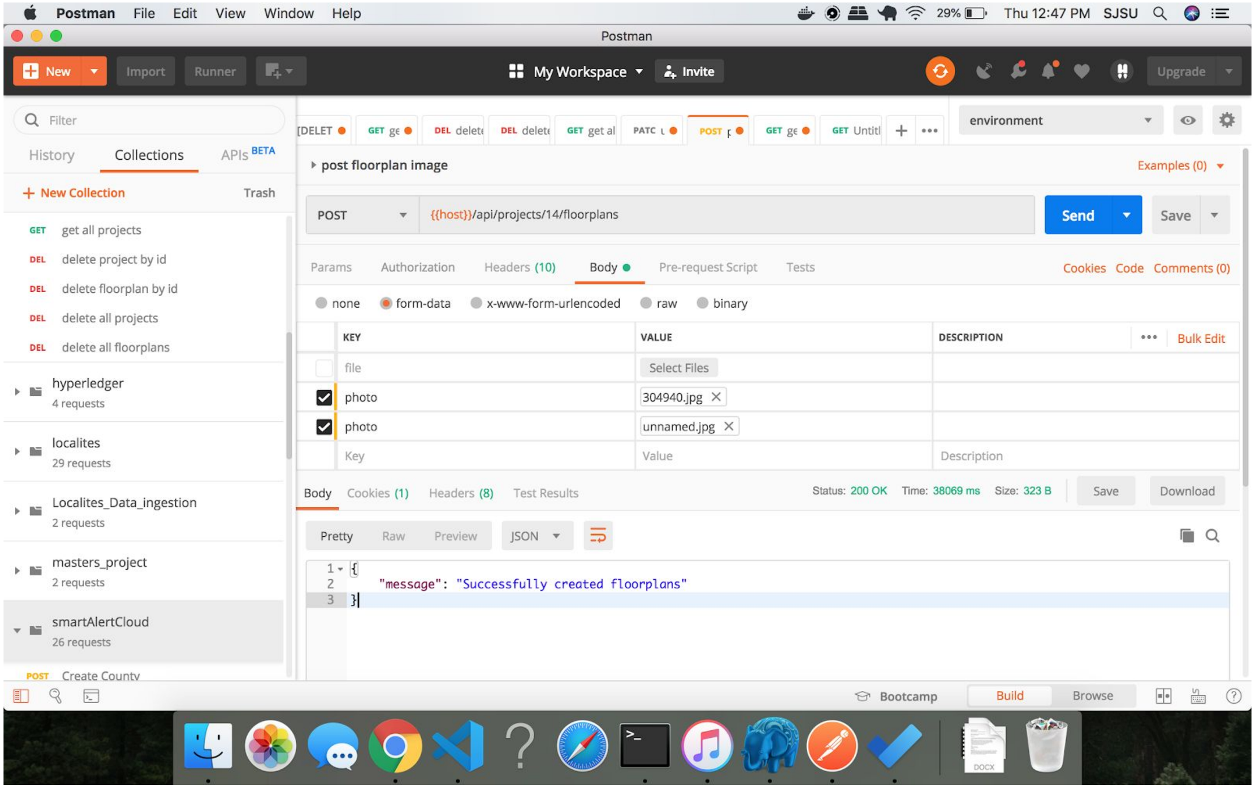
Returns
Returns success or failure message

Sample Request

```
curl -X POST \
  http://localhost:8080/api/projects/14/floorplans \
  -H 'Content-Type: application/x-www-form-urlencoded' \
  -H 'content-length: 1020679' \
  -H 'content-type: multipart/form-data;
boundary=----WebKitFormBoundary7MA4YWxkTrZu0gW' \
  -F photo=@/Users/kruti-sjsu/Downloads/304940.jpg \
  -F photo=@/Users/kruti-sjsu/Downloads/unnamed.jpg
```

Sample Response

```
{
    "message": "Successfully created floorplans"
}
```



post floorplan image

POST {{host}}/api/projects/14/floorplans

○ none ● form-data ○ x-www-form-urlencoded ○ raw ○ binary

	KEY	VALUE	DESCRIPTION
□	file	Select Files	
☑	photo	304940.jpg	
☑	photo	unnamed.jpg	
	Key	Value	Description

Status: 200 OK Time: 38069 ms Size: 323 B

```
{
    "message": "Successfully created floorplans"
}
```

Get Project

Endpoint: GET /api/projects/:id

This API would be used when the user would like to access a project and its corresponding floorplans

Path Parameters
Id - Project id

Body
None

Returns
Returns Project Object

Sample Request

```
curl -X GET \
http://localhost:8080/api/projects/14
```

Sample Response

```
{
    "id": 14,
    "name": "my_fancy_house",
    "description": "My first Project",
    "createdAt": "2020-06-04T19:03:09.553Z",
    "updatedAt": "2020-06-04T19:03:09.553Z",
    "floorplans": [
        {
            "id": 32,
            "name": "unnamed",
            "original": "3ded5c8443cfaa623c13645834b48641",
            "thumb": "3ded5c8443cfaa623c13645834b48641_thumb",
            "large": "3ded5c8443cfaa623c13645834b48641_large",
            "createdAt": "2020-06-04T19:35:16.675Z",
            "updatedAt": "2020-06-04T19:35:16.675Z",
            "fk_projectid": 14
        },
        {
            "id": 33,
            "name": "304940",
            "original": "3c70c3d75d711bc81b3ccf160cd5b55f",
            "thumb": "3c70c3d75d711bc81b3ccf160cd5b55f_thumb",
            "large": "3c70c3d75d711bc81b3ccf160cd5b55f_large",
            "createdAt": "2020-06-04T19:35:16.676Z",
            "updatedAt": "2020-06-04T19:35:16.676Z",
            "fk_projectid": 14
        }
    ]
}
```

Get All Projects

Endpoint: GET /api/projects

This API would be used when the user would like to access all the projects on the platform

Path Parameters
None

Body
None

Returns
Returns Project Objects

Sample Request

```
curl -X GET \
http://localhost:8080/api/projects
```

Sample Response

```
[
  {
    "id": 14,
    "name": "my_fancy_house",
    "description": "My first Project",
    "createdAt": "2020-06-04T19:03:09.553Z",
    "updatedAt": "2020-06-04T19:03:09.553Z",
    "floorplans": [
      {
        "id": 33,
        "name": "304940",
        "original": "3c70c3d75d711bc81b3ccf160cd5b55f",
        "thumb": "3c70c3d75d711bc81b3ccf160cd5b55f_thumb",
        "large": "3c70c3d75d711bc81b3ccf160cd5b55f_large",
        "createdAt": "2020-06-04T19:35:16.676Z",
        "updatedAt": "2020-06-04T19:35:16.676Z",
        "fk_projectid": 14
      },
      {
        "id": 32,
        "name": "unnamed",
                "original": "3ded5c8443cfaa623c13645834b48641",
                "thumb": "3ded5c8443cfaa623c13645834b48641_thumb",
                "large": "3ded5c8443cfaa623c13645834b48641_large",
                "createdAt": "2020-06-04T19:35:16.675Z",
                "updatedAt": "2020-06-04T19:35:16.675Z",
                "fk_projectid": 14
            }
        ]
    },
    {
        "id": 15,
        "name": "my_fancy_office",
        "description": "My second Project",
        "createdAt": "2020-06-04T19:54:06.196Z",
        "updatedAt": "2020-06-04T19:54:06.196Z",
        "floorplans": []
    }
]
```

Update Project

Endpoint: PATCH /api/projects/:id

This API would be used when the user would like to update the project

Path Parameters
Id - project id

Body Parameters:
Name - name of project
Description - description of project

Returns
Returns success or failure message

Sample Request

```
curl -X PATCH \
  http://localhost:8080/api/projects/14 \
  -H 'Content-Type: application/json' \
  -d '{
        "name" : "my_fancy_house_updated"
}'
```

Sample Response

```
{
   "message": "project was updated successfully."
}
```

Delete Project

Endpoint: DELETE /api/projects/:id

This API would be used when the user would like to delete the project

Path Parameters
Id - project id

Body
None

Returns
Returns success or failure message

Sample Request

```
curl -X DELETE \
  http://localhost:8080/api/projects/15
```

Sample Response

```
{
   "message": "project was deleted successfully!"
}
```

Delete All Projects

Endpoint: DELETE /api/projects

This API would be used when the user would like to delete all projects

Path Parameters
None

Body
None

Returns
Returns success or failure message

Sample Request

```
curl -X DELETE \
  http://localhost:8080/api/projects
```

Sample Response

```
{
   "message": "1 projects were deleted successfully!"
}
```

Floorplan APIs

Get Floorplan

Endpoint: GET /api/floorplans/:id

This API would be used when the user would like to access a particular floorplan

Path Parameters
Id - Floorplan id

Body
None

Returns

Returns Floorplan Object

Sample Request

```
curl -X GET \
  http://localhost:8080/api/floorplans/32
```

Sample Response

```
{
    "id": 32,
    "name": "unnamed",
    "original": "3ded5c8443cfaa623c13645834b48641",
    "thumb": "3ded5c8443cfaa623c13645834b48641_thumb",
    "large": "3ded5c8443cfaa623c13645834b48641_large",
    "createdAt": "2020-06-04T19:35:16.675Z",
    "updatedAt": "2020-06-04T19:35:16.675Z",
    "fk_projectid": 14
}
```

Get All Floorplans

Endpoint: GET /api/floorplans

This API would be used when the user would like to access all floorplans

Path Parameters
None

Body
None

Returns
Returns Floorplan Objects

Sample Request

```
curl -X GET \
  http://localhost:8080/api/floorplans
```

Sample Response

```
[
    {
        "id": 32,
        "name": "unnamed",
        "original": "3ded5c8443cfaa623c13645834b48641",
        "thumb": "3ded5c8443cfaa623c13645834b48641_thumb",
        "large": "3ded5c8443cfaa623c13645834b48641_large",
        "createdAt": "2020-06-04T19:35:16.675Z",
        "updatedAt": "2020-06-04T19:35:16.675Z",
        "fk_projectid": 14
    },
    {
        "id": 33,
        "name": "304940",
        "original": "3c70c3d75d711bc81b3ccf160cd5b55f",
        "thumb": "3c70c3d75d711bc81b3ccf160cd5b55f_thumb",
        "large": "3c70c3d75d711bc81b3ccf160cd5b55f_large",
        "createdAt": "2020-06-04T19:35:16.676Z",
        "updatedAt": "2020-06-04T19:35:16.676Z",
        "fk_projectid": 14
    }
]
```

Update floorplan

Endpoint: PATCH /api/floorplans/:id

This API would be used when the user would like to update a floorplan

Path Parameters
None

Body
Name(key) - name of floorplan
Photo(key) - floorplan image

Returns
Returns success or failure message

Sample Request

```
curl -X PATCH \
  http://localhost:8080/api/floorplans/31 \
    -H 'Content-Type: application/json' \
   -H 'content-type: multipart/form-data;
boundary=----WebKitFormBoundary7MA4YWxkTrZu0gW' \
  -F photo=@/Users/kruti-sjsu/Downloads/IMG_4404.JPG \
  -F name=my_dream_kitchen
```

Sample Failed Response

```
{
    "message": "Cannot update floorplan with id=31. Maybe floorplan was not found or req.body
is empty!"
}
```

Sample Request 2

```
curl -X PATCH \
  http://localhost:8080/api/floorplans/32 \
    -H 'Content-Type: application/json' \
   -H 'content-type: multipart/form-data;
boundary=----WebKitFormBoundary7MA4YWxkTrZu0gW' \
  -F photo=@/Users/kruti-sjsu/Downloads/IMG_4404.JPG \
  -F name=my_dream_kitchen
```

Sample Success Response

```
{
    "message": "floorplan was updated successfully."
}
```

Get floorplan Image

Endpoint: GET /api/floorplans/image/:filename

This API would be used to retrieve the floorplan image

Path Parameters
Filename - Image to be retrieved

Body
None

Returns
Returns Image content or failure message

Sample Request

```
curl -X GET \
  http://localhost:8080/api/floorplans/image/3ded5c8443cfaa623c13645834b4861_thumb
```

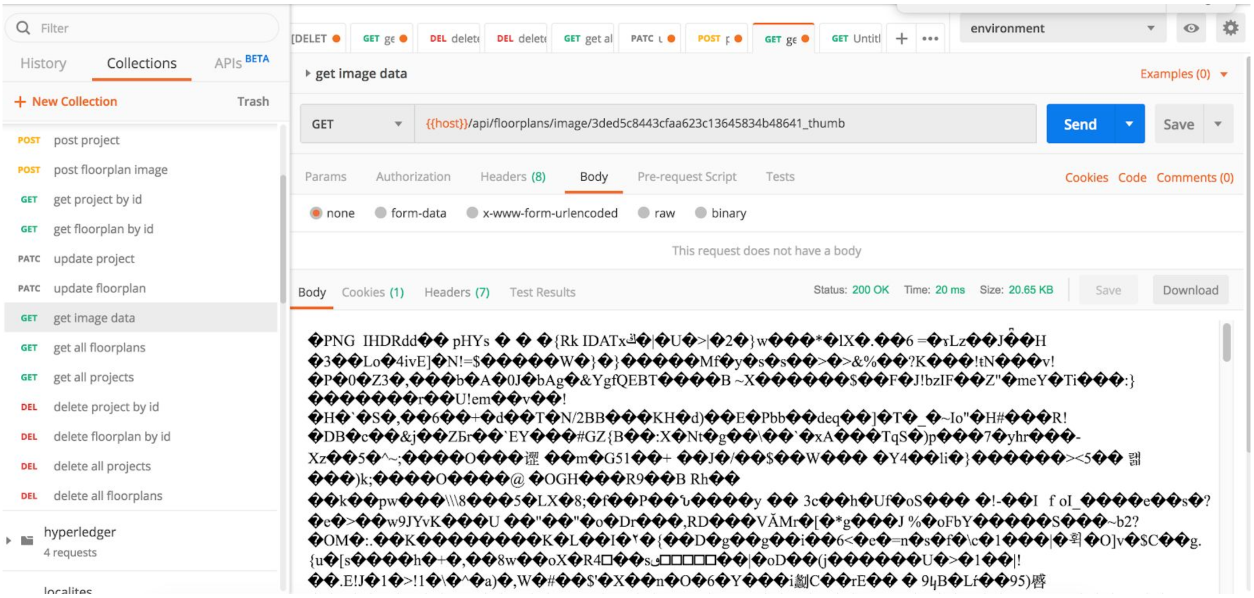
Sample Failed Response

```
{
    "message": "No such image"
}
```

Sample Request2

```
curl -X GET \
  http://localhost:8080/api/floorplans/image/3ded5c8443cfaa623c13645834b48641_thumb
```

Sample Success Response



GET {{host}}/api/floorplans/image/3ded5c8443cfaa623c13645834b48641_thumb

● none ○ form-data ○ x-www-form-urlencoded ○ raw ○ binary

This request does not have a body

Status: 200 OK Time: 20 ms Size: 20.65 KB

```
�PNG  IHDRdd�� pHYs � � �{Rk IDATxك�|�U�>|�2�}w���*�lX�.��6 =�ɤLz��J�̈�H
�3��Lo�4ivE]�N!=$�����W�}�}�����Mf�y�s�s��>�>&%��?K���!tN���v!
�P�0�Z3�,���b�A�0J�bAg�&YgfQEBT����B ~X������$��F�J!bzIF��Z"�meY�Ti���:}
�������r��U!em��v��!
�H�`�S�,��6��+�d��T�N/2BB���KH�d)��E�Pbb��deq��]�T�_�~Io"�H#���R!
�DB�c��&j��ZБr��`EY���#GZ{B��:X�Nt�g��\��`�xA���TqS�)p���7�yhr���-
Xz��5�^~;����O����䙨 ��m�G51��+ ��J�/��$��W��� �Y4��li�}������><5�� 랩
���)k;����O�����@ �OGH���R9��B Rh��
��k��pw���\\\8���5�LX�8;�f��P��ง����y �� 3c��h�Uf�oS��� �!-��I  f oI_����e��s�?
�e�>��w9JYvK���U ��"��"�o�Dr���,RD���VĂMr�[�*g���J %�oFbY�����S���~b2?
�OM�:.��K���������K�L��I�٢�{��D�g��g��i��6<�e�=n�s�f�\c�1���|�회�O]v�$C��g.
{u�[s����h�+�,��8w��oX�R4□��sف□□□□□��|�oD��(j������U�>�1��|!
��.E!J�1�>!1�\�^�a)�,W�#��$'�X��n�O�6�Y���i劖C��rE�� � 9ԿB�Lf��95)磨
```

Delete Floorplan

Endpoint: DELETE /api/floorplans/:id

This API would be used when the user would like to delete a particular floorplan

Path Parameters
Id - Floorplan id

Body
None

Returns
Returns success or failure message

Sample Request
```
curl -X DELETE \
  http://localhost:8080/api/floorplans/9
```

Sample Failed Response
```
{
   "message": "Cannot delete floorplan with id=9. Maybe floorplan was not found!"
}
```

Sample Request 2
```
curl -X DELETE \
  http://localhost:8080/api/floorplans/33
```

Sample Success Response
```
{
   "message": "floorplan was deleted successfully!"
}
```

Delete All Floorplans

Endpoint: DELETE /api/floorplans

This API would be used when the user would like to delete all floorplans

Path Parameters
None

Body
None

Returns
Returns success or failure message

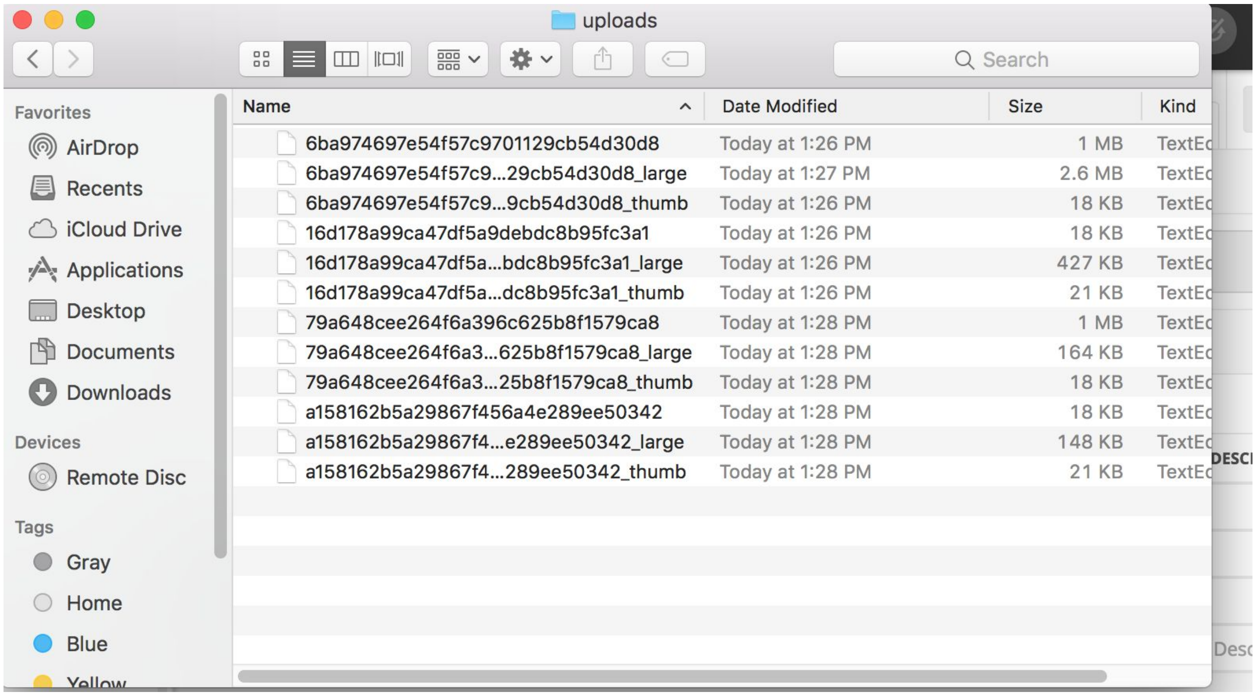
Sample Request

```
curl -X DELETE \
  http://localhost:8080/api/floorplans
```

Sample Success Response

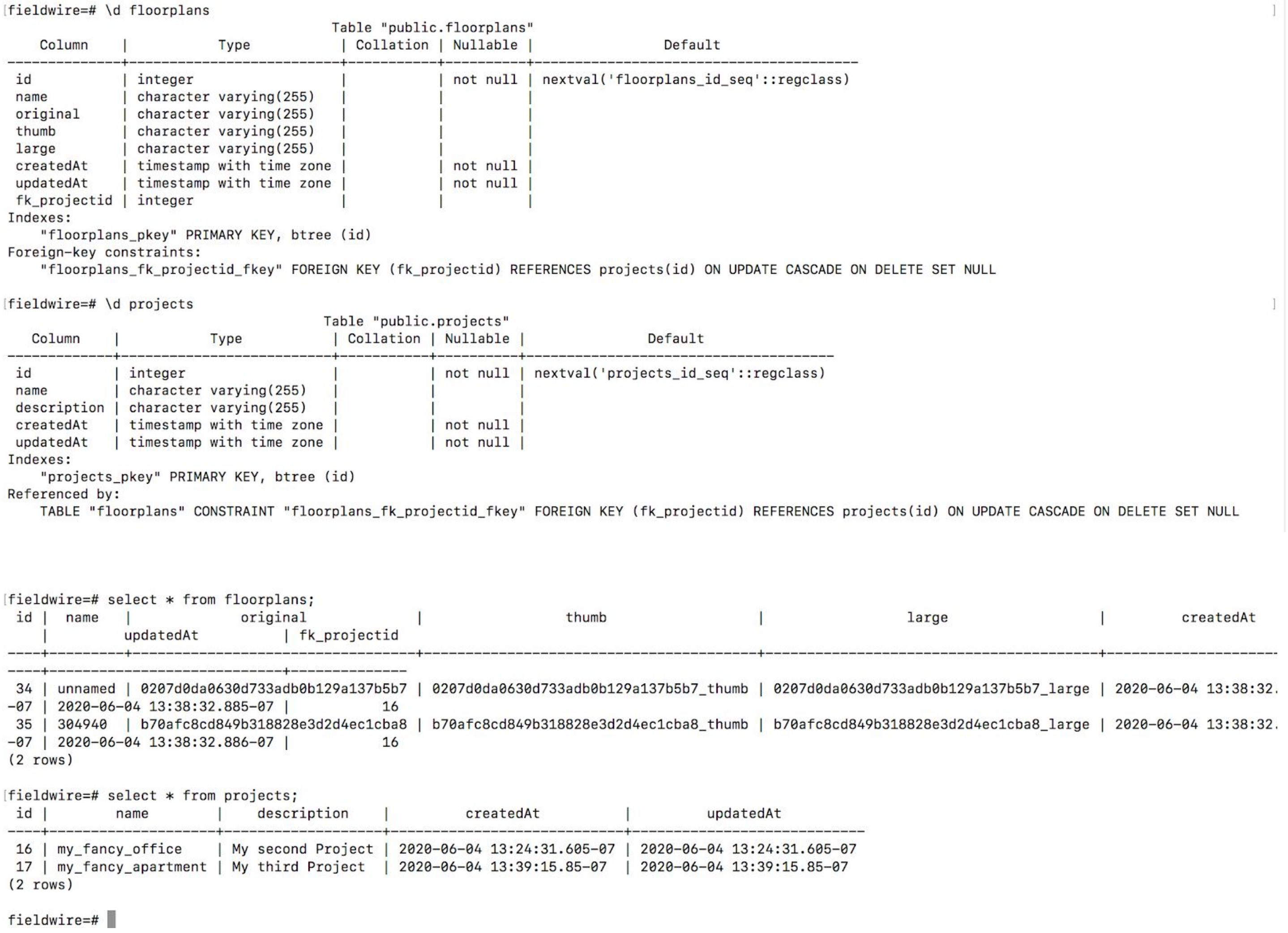
```
{
    "message": "1 floorplans were deleted successfully!"
}
```

Uploads Directory for images



Name	Date Modified	Size	Kind
6ba974697e54f57c9701129cb54d30d8	Today at 1:26 PM	1 MB	TextEd
6ba974697e54f57c9...29cb54d30d8_large	Today at 1:27 PM	2.6 MB	TextEd
6ba974697e54f57c9...9cb54d30d8_thumb	Today at 1:26 PM	18 KB	TextEd
16d178a99ca47df5a9debdc8b95fc3a1	Today at 1:26 PM	18 KB	TextEd
16d178a99ca47df5a...bdc8b95fc3a1_large	Today at 1:26 PM	427 KB	TextEd
16d178a99ca47df5a...dc8b95fc3a1_thumb	Today at 1:26 PM	21 KB	TextEd
79a648cee264f6a396c625b8f1579ca8	Today at 1:28 PM	1 MB	TextEd
79a648cee264f6a3...625b8f1579ca8_large	Today at 1:28 PM	164 KB	TextEd
79a648cee264f6a3...25b8f1579ca8_thumb	Today at 1:28 PM	18 KB	TextEd
a158162b5a29867f456a4e289ee50342	Today at 1:28 PM	18 KB	TextEd
a158162b5a29867f4...e289ee50342_large	Today at 1:28 PM	148 KB	TextEd
a158162b5a29867f4...289ee50342_thumb	Today at 1:28 PM	21 KB	TextEd

Database Schema



```
fieldwire=# \d floorplans
                                        Table "public.floorplans"
    Column    |           Type           | Collation | Nullable |                Default
--------------+--------------------------+-----------+----------+----------------------------------------
 id           | integer                  |           | not null | nextval('floorplans_id_seq'::regclass)
 name         | character varying(255)   |           |          |
 original     | character varying(255)   |           |          |
 thumb        | character varying(255)   |           |          |
 large        | character varying(255)   |           |          |
 createdAt    | timestamp with time zone |           | not null |
 updatedAt    | timestamp with time zone |           | not null |
 fk_projectid | integer                  |           |          |
Indexes:
    "floorplans_pkey" PRIMARY KEY, btree (id)
Foreign-key constraints:
    "floorplans_fk_projectid_fkey" FOREIGN KEY (fk_projectid) REFERENCES projects(id) ON UPDATE CASCADE ON DELETE SET NULL

fieldwire=# \d projects
                                       Table "public.projects"
   Column    |           Type           | Collation | Nullable |               Default
-------------+--------------------------+-----------+----------+--------------------------------------
 id          | integer                  |           | not null | nextval('projects_id_seq'::regclass)
 name        | character varying(255)   |           |          |
 description | character varying(255)   |           |          |
 createdAt   | timestamp with time zone |           | not null |
 updatedAt   | timestamp with time zone |           | not null |
Indexes:
    "projects_pkey" PRIMARY KEY, btree (id)
Referenced by:
    TABLE "floorplans" CONSTRAINT "floorplans_fk_projectid_fkey" FOREIGN KEY (fk_projectid) REFERENCES projects(id) ON UPDATE CASCADE ON DELETE SET NULL


fieldwire=# select * from floorplans;
 id |  name   |             original             |                 thumb                  |                 large                  |         createdAt
    |          updatedAt          | fk_projectid
----+---------+----------------------------------+----------------------------------------+----------------------------------------+--------------------
----+----------------------------+--------------
 34 | unnamed | 0207d0da0630d733adb0b129a137b5b7 | 0207d0da0630d733adb0b129a137b5b7_thumb | 0207d0da0630d733adb0b129a137b5b7_large | 2020-06-04 13:38:32.
-07 | 2020-06-04 13:38:32.885-07 |           16
 35 | 304940  | b70afc8cd849b318828e3d2d4ec1cba8 | b70afc8cd849b318828e3d2d4ec1cba8_thumb | b70afc8cd849b318828e3d2d4ec1cba8_large | 2020-06-04 13:38:32.
-07 | 2020-06-04 13:38:32.886-07 |           16
(2 rows)

fieldwire=# select * from projects;
 id |        name        |    description    |         createdAt          |         updatedAt
----+--------------------+-------------------+----------------------------+----------------------------
 16 | my_fancy_office    | My second Project | 2020-06-04 13:24:31.605-07 | 2020-06-04 13:24:31.605-07
 17 | my_fancy_apartment | My third Project  | 2020-06-04 13:39:15.85-07  | 2020-06-04 13:39:15.85-07
(2 rows)

fieldwire=# █
```

Future Improvements

1. Usage of query parameters instead of path parameters
2. Consistent API response
3. Standard error response
4. Update API responses to hide fields not used by the client
5. Images can be uploaded to S3 store
6. Code Refactoring