

Portfolio Assignment: Final Project

1 The URL where the application is deployed

<https://us-central1-cs493-final-yuansh.cloudfunctions.net/app>

2 The URL for account creation/login

I haven't built a front-end for account creation/login, but you can do that through making HTTP request to this endpoint:

POST /admin

with signup email and password in the request body, and it will respond with a JWT to be used for later authentications.

3 Data models

	Name	Property	Type	Required?	Valid values
User Entity	Admin	firstName	String	Yes	Any string value
		lastName			
		email			
Non-user Entities	Customer	adminEmail			
		adminID			
		email			
		firstName			
		lastName			
	Project	customerID			
		title			
		description			
		status			

Description of the relationship between the non-user entities

A Customer can have multiple Projects. A Project must belong to one Customer.

Description of the user entity

- The unique identifier for the user entity, “admin”, is user id, which is equivalent to the document id generated by the Firestore
- The user id needs to be specified when making a request. It will be stored to a Postman environment variable after creating a new account or signing in.
- I used Firebase auth to supply JWT to the user.
- An Admin can have multiple Customers. A Customer can only belong to one Admin.

4 Endpoints

- Admin

Endpoint	Status codes	Protected?
GET /admin	200, 404	No
GET /admin/:id	200, 404	No
POST /admin	201, 400, 403, 406	No

- Customer

Endpoint	Status codes	Protected?
POST /customer	201, 400, 403, 406	Yes
DELETE /customer/:id	204, 401, 404	Yes
GET /customer	200, 401, 404	Conditional
GET /customer/:id	200, 404	No
PATCH /customer/:id	200, 400, 401, 403, 404, 406	Yes

- Project

Endpoint	Status codes	Protected?
POST /customer/:id/project	201, 400, 403, 406	Yes
GET /project	200, 404	No
GET /project/:id	200, 404	No
GET /customer/:id/project	200, 404	No
PUT /customer/:c_id/project/:p_id	200, 401, 403, 404	Yes
PATCH /project/:id	200, 400, 401, 403, 404, 406	Yes

DELETE /project/:id	204, 401, 404	Yes
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*Requests made to non-existing endpoints will receive status code 405