

Project Closure and Recap Form

This form should be completed after reaching the final milestone and upon completing your project at the end of the semester. A single form must be submitted by each team.

First, please fill the following entries with information about your project:

- **Group #:** 3
- **Group Members:** Stephanie Elliott, Sophie Novak, Nina Mohs, Emma Lenz, Emily Canales
- **Site URL:** <https://is424project-79c6d.web.app/>

Next, engage in self-reflection by addressing the following questions:

1. What worked well, and why?

Our team did a good job of using Git and GitHub to have multiple people work on the code at the same time. It became very useful towards the end of the project when we had many changes going on at once.

2. What didn't work well, and why not?

With so many people in our group, we struggled getting everyone attached to the same firebase project and the ability to deploy the project. It took several attempts and a lot of confusion on the way. We eventually were all able to be contributors to the firebase account, it just was not a smooth journey to do so.

3. If you were to do the same project again, what would you do differently?

If we did the project again, we would have liked to utilize Trello more than we did to fully break down the tasks and assign them to each person. We did it to an extent, however we didn't break tasks down fully and some tasks turned out to be harder and more complicated than others.

4. What are your takeaways after completing the project?

We learned that there is a lot that goes on behind the scenes of a website. Since ours has a lot of functionality, like booking, adding, and deleting classes just to name a few, we had to connect those all to the database which was a big job. We also learned that using graphs and diagrams to plan out our functions and database was really helpful when it came to implementing them in the website. It helped mitigate confusion and provided a reference that we could turn into code.

5. Describe a scenario that you thought would be hard to go through, but it turned out to be easier than originally thought. Describe another for the other way around.

We thought that developing the UI for the website was going to be hard since we spent the whole last semester just doing that, however we were actually able to finish that very quickly and easily with few blockers.

We thought that putting the data in the database would be straightforward, however that turned out to be a challenge for us. Since certain parts required information from other parts of the site, we had to strategize how and when we were pushing and pulling to the database. This was a challenge specifically because the admins upload information about the classes, and then users use that information to book classes. There were a lot more moving parts than we anticipated.

6. *Have you showed your project to people outside your class? What was the impression?*

We have shown parts of our projects to the project owner, Jenner. She thinks it has a very sleek design and is easy for the users to book classes and leave reviews. One piece of feedback she gave us is that she would have liked to have an online payment system, however that is outside of our scope for this class.

7. *What other features would you like to add if you have more time?*

If we had more time, we would have liked to add functionality to the upcoming events tab, however with the owner being the only person with knowledge and having limited time to work on the other functionalities, we did not have time to get to that section. We would have liked to add a section in the admin profile to add upcoming events that would populate on the users page.

We also would have liked to integrate a payment system even though it is outside the scope of the class. This is a practical function of the site that would make Jenner's and the users experience on the page even more enhanced.

8. *Anything else you want to say?*

We thought this was a super great learning experience and really enjoyed the class! Also, despite a suggestion we received on Milestone 3a, we decided to keep reviews as a separate collection. Our thought process was that most users do not write reviews so therefore it's more inefficient to search through potentially thousands of users instead of a collection of maybe a hundred reviews. However, we did incorporate the rest of the feedback by putting an enrollment array within each class's document.

Lastly, capture multiple screenshots from your personal Firebase account to illustrate the following points. Attach your screenshots after the corresponding items below.

1. Show your existing users.

<<Your screenshot here>>

Authentication

[Users](#) | [Sign-in method](#) | [Templates](#) | [Usage](#) | [Settings](#) | [Extensions](#)

The following Authentication features will stop working when Firebase Dynamic Links shuts down on August 25, 2025: email link authentication for mobile apps, as well as Cordova OAuth support for web apps.

Search by email address, phone number, or user UID [Add user](#)

Identifier	Providers	Created ↓	Signed In	User UID
saelliott413@gmail.com	✉	Apr 30, 2025	Apr 30, 2025	k57DIUHF8QfHhKkKoqzshOfg...
nmohs@gmail.com	✉	Apr 29, 2025	Apr 29, 2025	8Tmmq8j3K9U4VrhchIBB76C...
elenz@gmail.com	✉	Apr 29, 2025	Apr 29, 2025	A40N1z2p040fmxlvP6asX001...
urg@gmail.com	✉	Apr 29, 2025	Apr 29, 2025	ZBy1UzJaX6fV05iQm0H83Jz...
emlenz@wisc.edu	✉	Apr 29, 2025	Apr 29, 2025	5zsm8fllZRAuLQ6puJQ7s1N0...
test15@gmail.com	✉	Apr 29, 2025	Apr 29, 2025	RYyO77Yt78PtlogTt4NdKqHl...
test14@gmail.com	✉	Apr 29, 2025	Apr 30, 2025	BxPTi0c3RhmGE43JBgQHv...
emmatest@google.com	✉	Apr 29, 2025	Apr 29, 2025	gqmotWHnX8RBZ4Na3Rqj7B3...
emtest@google.com	✉	Apr 29, 2025	Apr 29, 2025	nAAS0tGcj7UHZkoqokxjeuotn...
ekcs@gmail.com	✉	Apr 29, 2025	Apr 29, 2025	VjhglvL3vBQULqmgSscyzgIM...
emmalenz@gmail.com	✉	Apr 29, 2025	Apr 29, 2025	vNihOAPh6PrqKD1BprYCUQX...
ekc@gmail.com	✉	Apr 28, 2025	Apr 28, 2025	MYDQF61ShoVJN7XlZ18eF3S...
admin@gmail.com	✉	Apr 28, 2025	Apr 29, 2025	fS4eHKSHfZMJc4usqDUFCC...
saelliott2@wisc.edu	✉	Apr 24, 2025	Apr 29, 2025	YdYJU052cgNqtjP7J3gX40...
emma.lenz@gmail.com	✉	Apr 23, 2025	Apr 29, 2025	aGnlkaNS4AQehKWsVYgwJJS...
jom@gmail.com	✉	Apr 23, 2025	Apr 23, 2025	NpPz7eznNLCvwAf9xELPbaT...
jimt@gmail.com	✉	Apr 23, 2025	Apr 23, 2025	GiGg4EsOzUvnh2TTe9tB97IM...
karenb@gmail.com	✉	Apr 23, 2025	Apr 23, 2025	DcvRNEPGrhMMSyUzIlgJfHEp...

Rows per page: 50 1 - 18 of 18

2. Show a comprehensive list of all your collections.

(default)

[+ Start collection](#)

- classes
- reviews
- users**

3. Show a sample document from each of your collections. For example, if you have 3 collections, provide 3 corresponding screenshots.

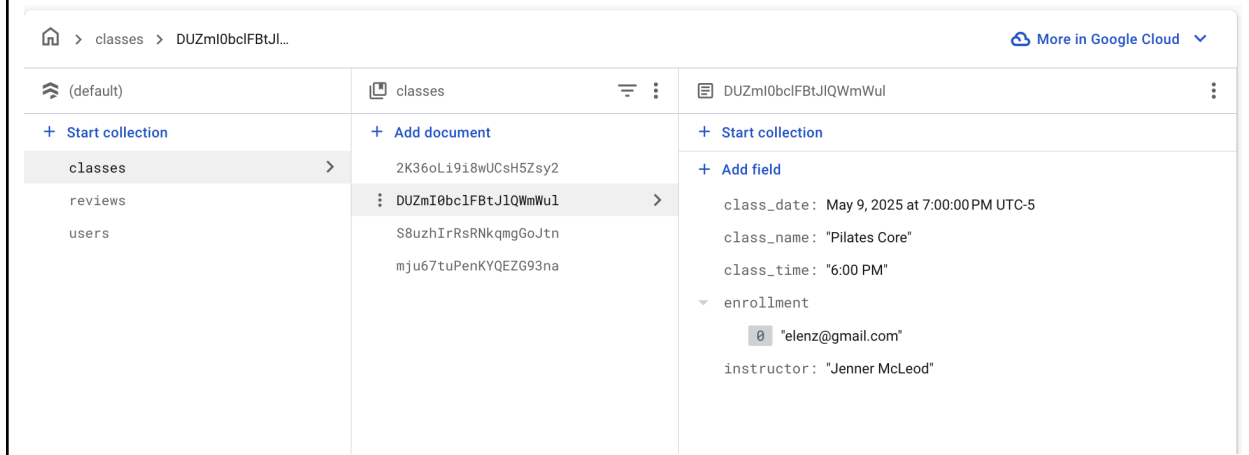
<<Your screenshot here>>

<div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div>users</div><div>8Tmmq8j3K9U4...</div></div><div><div>More in Google Cloud</div><div></div></div></div>		
<div><div>(default)</div></div>	<div><div>users</div><div></div><div></div></div>	<div><div>8Tmmq8j3K9U4VrhcHIBB76CHV5T2</div><div></div></div>
<div><div>+ Start collection</div><div>classes</div><div>reviews</div><div>users</div></div>	<div><div>+ Add document</div><div>5zsm8f1iZRauLQ6puUQ7s1N0FHX2</div><div>8Tmmq8j3K9U4VrhcHIBB76CHV5T2</div><div>A40N1z2p04Ofnx1vP6asX001LEU2</div><div>BxPTi0ccC3RhmGE43JBgQHVo0r0A3</div><div>MYDQF615hoVJN7X1z18eF3SwLe03</div><div>ZBy1UzJaX6fV05IQm0H83Jzd1qZ2</div><div>aUhZ71n7FegI5jdGhsVLTyCrB93</div><div>cKGdmbPhvEfEHwBNU7ZzEQQLYGUn1</div><div>fS4eHK5KHfZMJC4usqDUFcCuqoH2</div><div>k57D1UHF8QfhHkLKoqzxhIOfgIF3</div><div>u1</div><div>x5hVAhy03cN12yoUC0mWDvB9DRz2</div></div>	<div><div>+ Start collection</div><div>+ Add field</div><div>admin_status: true</div><div>user_email: "nmohs@gmail.com"</div><div>user_id: "8Tmmq8j3K9U4VrhcHIBB76CHV5T2"</div><div>user_name: "Nina"</div><div>user_phone: "7034092194"</div></div>

<<Your screenshot here>>

<div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div>reviews</div><div>TceomUAXTgl7...</div></div><div><div>More in Google Cloud</div><div></div></div></div>		
<div><div>(default)</div></div>	<div><div>reviews</div><div></div><div></div></div>	<div><div>TceomUAXTgl7p0fnyuzT</div><div></div></div>
<div><div>+ Start collection</div><div>classes</div><div>reviews</div><div>users</div></div>	<div><div>+ Add document</div><div>TceomUAXTgl7p0fnyuzT</div><div>njUfo1zPV8uiVpkc2Nwh</div><div>pTgMEQIq00prv5SxivG0</div></div>	<div><div>+ Start collection</div><div>+ Add field</div><div>desc: "True Line Fitness is a wonderful resource for folks looking to maintain or improve mobility, flexibility and muscle tone. The instructors have extensive understanding of body mechanics and appropriate exercises to strengthen core muscles and structures, which also helps reduce the chances of injury due to slips or falls. While lower back injuries used to be a common problem for me, those problems are becoming a distant memory as muscles that keep me upright and mobile are definitely stronger and more resilient due to the exercises I've learned in these classes."</div><div>email: "jimt@gmail.com"</div><div>name: "Jim T"</div><div>rating: "5"</div><div>timestamp: April 23, 2025 at 9:48:10 PM UTC-5</div></div>

<<Your screenshot here>>



4. Show your security rules configuration.

```
1  rules_version = '2';
2
3  service cloud.firestore {
4    match /databases/{database}/documents {
5
6      match /reviews/{reviewId} {
7        allow create: if request.auth != null;
8        allow delete: if request.auth != null &&
9                      request.auth.token.email == resource.data.email;
10       allow read: if true;
11       allow write: if request.auth != null;
12     }
13
14     match /classes/{classId} {
15       allow create, update, delete: if isAdmin();
16       allow get, list: if true;
17       allow update: if request.auth != null;
18     }
19
20     match /users/{userId} {
21       // Only allow users to create/read/update their own document
22       allow create: if request.auth != null && request.auth.uid == userId;
23       allow read: if request.auth != null && (request.auth.uid == userId || isAdmin());
24       allow update: if request.auth != null && request.auth.uid == userId;
25       allow delete: if isAdmin();
26     }
27
28     function isAdmin() {
29       return request.auth != null &&
30             get(/databases/{database}/documents/users/{request.auth.uid}).data.admin_status ==
31             true;
32     }
33   }
34 }
```