H&W Airlines
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- Status Summary
  - In the first week of our project we were able to get a few things done that will make the project a lot easier as we begin the more complex parts. We met as a group a couple of times in the week to decide from the very beginning what an outline of our project would be towards the end. By doing this we don't have to worry about complexities that might jump at us or add any unnecessary code to our project. We carefully are trying to follow the outline in hopes that it contains everything we need. In the first week, Henock started on the website. It is almost completed and will be the front-facing part of our project. The website was done in HTML and CSS and is connected to the server. The server is run on Django. A web framework that makes it a lot easier for us to implement python in our project. Because of this, we might not even need to use SQL thanks to our discovery. We have all been playing around with Django and learning more about the many features it has that could help us in our project. AJ has taken it one step further in trying to see how we can implement design patterns in Django. So far he has already found a singleton pattern that will work and Evan is working on a way to implement an observer pattern in Django. On top of that Evan has found a way to use Django to add and update passengers. Our approach has been relatively the same as we have found the patterns we selected to be quite helpful in the project. However, we are still trying to figure out ways to implement a facade pattern into the project. So far we believe that the website is the gateway between the client and the rest of the code. The patterns themselves save us time and make the code run a lot more efficiently, especially with the help of Django.
- Class Diagram
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- Plan for Next Iteration
  - In terms of what we need to work on next is mainly going to be involving Django. As mentioned before finding a way to use the facade pattern in Django is our next step and once we have a full outline of utilizing the design patterns we will be able to move forward with the project. Thankfully we don't have many design changes from the previous Project 5. By the final iteration, we hope to have

completely finished the server aspect as well as have Django fully utilized in our project. Once we finish all the patterns in Django we just have to make sure that all data inputted on the website is later saved on the server. By doing so we can have a complete interface in which both customers and passengers can book flights in our project. Our final project will various options that passengers can pick and select from that allow them to have a streamlined experience in booking H&W Airlines.

- ○ Github: https://github.com/evsw5643/Airline-Project.git

Class Diagram:

User

+ id:string
+ username:string
+ first_name:string
+ last_name:string
+ email:string
+ password:string
+ group:Group
+ lastLogin:dateTime = stored at logout

+ get_username():string
+ get_full_name():string
+ signOut():void
+ set_password(string):void
+ get_password():string

Group

+ name:string
-permissions:Permission

Permissions

+ name:string
+codename:string
-contenttype:ContentType: Objects.Model

Singleton

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def save(self, *args, **kwargs)

Singleton

+background:models

def save(self, *args, **kwargs)