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CSCI 4448
Project 6

Airport Simulation Update

Project 6 Deliverables

Your deliverable for Project 6 is a combination of a demonstration to class staff and a link to your GitHub repo for the project deliverables. You must include a PDF document in your repo – clearly labeled “Project 6 Update.pdf” - that contains the Status Summary, Class Diagram, and Plan listed below:
AirportSimulation Repository Link

Status Summary

Include these sections in your status update PDF labeled “Project 6 Update.pdf”:

- Please include the names of all team members and the title of the project in the PDF!
- Work Done: Written description of the work done in the first week of your project and (in the case of multi-person teams) the breakdown of work across team members.
- Changes or Issues Encountered: Has anything changed so far in your approach to the project from the initial design in Project 5?
- Patterns: Now that you have more of your system implemented, please describe the use of design patterns so far in your prototype and how they are helping you or your design.

Work Done:
- Programmed the existing code
- Strategy pattern for assigning airline and manufacturer to plane.
- Observer pattern for logging & tracking flights and tickets.
- Functions of executing flights, and

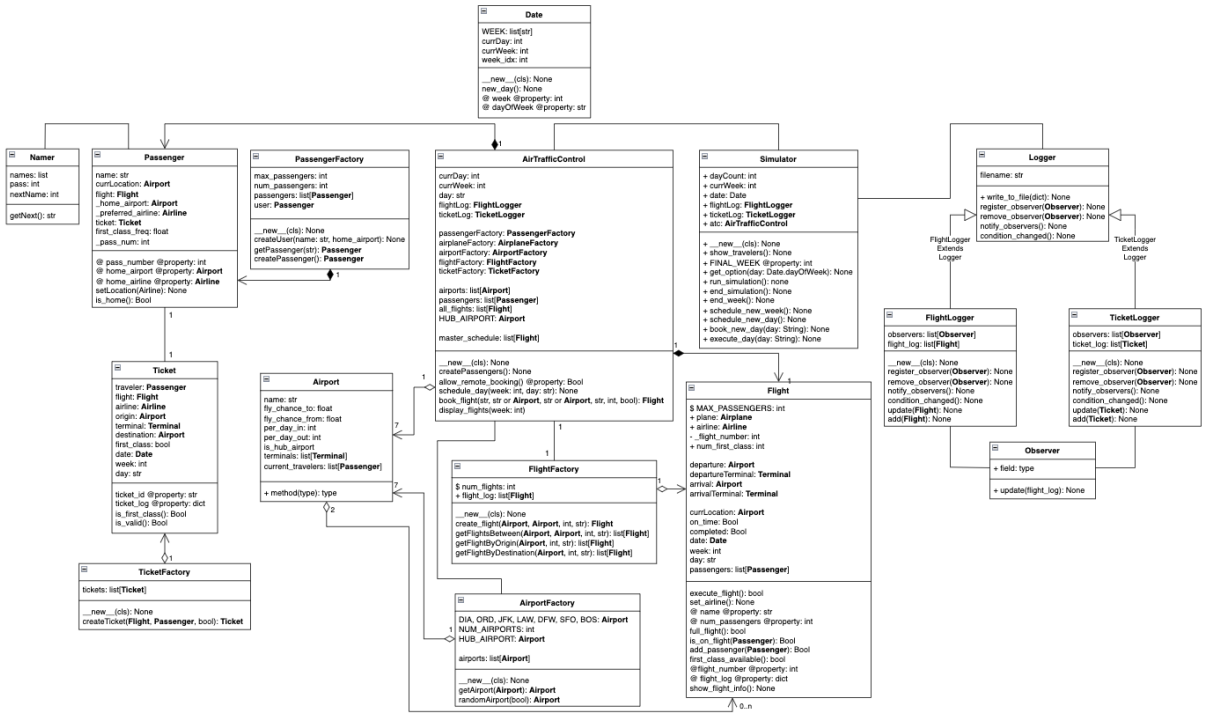
Changes/Issues:
- Switched from Java to Python
- Increased the use of factories
- Increased the use of singletons
- Added details like attributes and methods to most aspects

Patterns: (descriptions in readme)
- Strategy
- Factory
- Observer
- Singleton

Class Diagram

A class diagram that shows the classes that have been implemented so far and their relationships to one another. (In other words, this diagram may not show the complete system you designed in Project 5 but rather the classes your team implemented during the past two weeks.) This will likely be an annotated version of your Project 5 UML Class Diagram. Pattern use should be highlighted in this diagram.

[Link to updated UML Diagram]



Plan for next Iteration

Provide an estimate of how much more work needs to be done for your team to have implemented the design that you presented in Project 5 (with any design changes that may have occurred). What are your plans for the final iteration to get to the Project 7 delivery? What do you plan to have done by 5/3 when the overall project is due?

We have a lot of the work done so far. These are the major tasks remaining:

- ~~Execution of flights to move planes and passengers between airports~~
- Assigning planes to each flight and to each airline
- Assigning airlines to flights.
- User interface completion

- Loading passenger data from csv, json files
- ~~Downloading fight, ticket data into json files~~

Demonstration

This will be approximately a 10- to 15-minute demonstration to one of the class staff to show where your team is with your development. We may ask to look at your code and you should be able to share what your team has implemented in the last two weeks, also you should consider demonstrating any elements of the project that are running at that point. We may also ask questions about how you are designing and implementing your project, your pattern use, changes in your plans, and about what remains to be completed. Your submitted PDF with the status summary, class diagram, and plan for the next iteration should be available for class staff to reference during this demonstration.

This is intended to be a checkpoint for the semester project to make sure progress is being made. You should plan to have approximately half of your semester project work done and sharable at this demonstration.

Demonstrations will be performed over Zoom, and a Google Docs sign-up sheet will be provided for you to pick a slot with a class staff person so your team can attend and share your work. Ideally, we would like all team members to be present for the demonstration, but if someone cannot make the scheduled slot, there is no penalty as long as some part of the team attends and reviews the work with class staff.