



ICS220 - Assignment 1: Soft...

You have four classes today and nothing due.

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Assignment due Sunday, February 25, 2024 by 11:00pm

An airline company requires your services to design software for their Boarding Pass Generation System. A sample boarding pass is provided in Figure 1, which would be provided to a passenger who will be boarding a place.

Submit

Your submission has not yet
submitted or finalized.

Submit



You are required to do the following:

1. Identify the use-cases for the software. Draw the UML use-case diagram and include supporting use-case descriptions. At least 3 scenarios must be identified.
2. Identify the objects and their respective classes. Draw the UML class diagrams and include supporting descriptions to explain the relationships. At least 4 classes and respective relationships must be identified.
3. For all the identified classes, create Python classes with the constructor, attributes (at least 5), and required setter/getter methods. Identify and include other required function headers in the classes where the function's body is just a *pass* statement and include a comment to indicate what the function should achieve.

4. Create objects of all the identified classes and use the object's functions to populate and display all the boarding pass details shown in the figure.

Submission:

Submit a report (single PDF file) that has the following sections:

- a. UML Use-Case Diagrams and Description.
- b. UML Class Diagrams and Description.
- c. Python classes (copy-paste the code, NOT an image of the code). The code must be well documented with good coding standards followed.
- d. GitHub repository link, with access made public: The GitHub repository will have a record of your work. The repository would indicate the cumulative progress of your work in the assignment over the time you have worked on it.
- e. Summary of learnings

Assignment Information

Weight:

15%

Learning Outcomes Added

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[#LOT OOAD](#): Analyze and design software that map real-world entities