

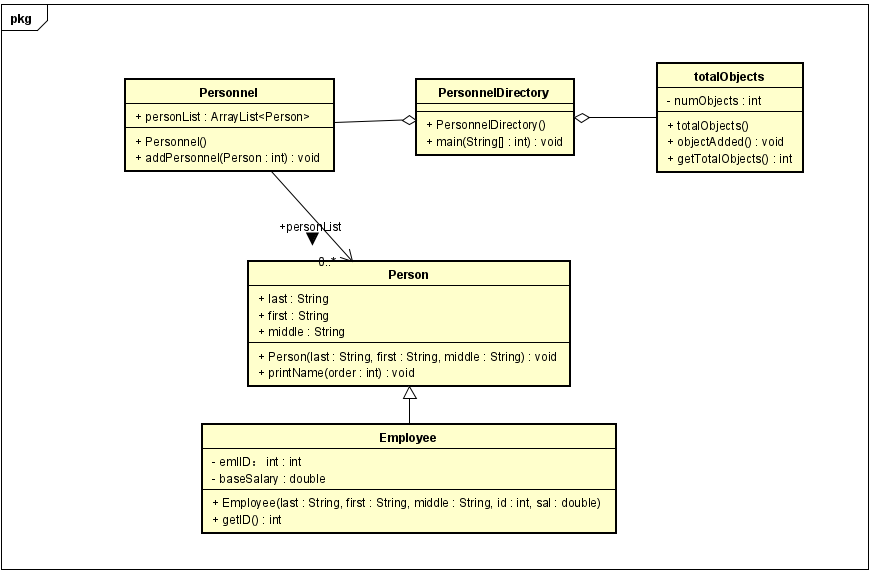
## CSE 460: Software Analysis and Design Directory Management System Phase I Submission

**Directions:**

Complete your work for Phase I Parts 1 and 2 in this document. Save and submit as a **single** PDF titled “Last Name\_First Name\_Directory Management System Project\_Phase I\_Submission”.

# Phase I, Part 1

Use the Astah tool to draw the class diagram for the current implementation of the university system. Use correct UML notations. When you have completed the diagram, take a clear screenshot and paste it in the space provided.



# Phase I, Part 2

In the code, identify object-oriented concept violations, content coupling, common coupling, control coupling and stamp coupling situations. Copy and paste the code segments that shows each coupling situation in the space provided. *You may use additional space as necessary.*

1. **Object-Oriented Concept Violations**

[paste code segments here]

**How would you fix these violations?**

[Write your answer in this space.]

1. **Content Coupling**

per.addPersonnel(e1);

**How would you fix this?**

Bypassing the e1 to Personnel class and perform add action within Personnel class

1. **Common Coupling**

[paste code segments here]

**How would you fix this?**

[Write your answer in this space.]

1. **Control Coupling**

[paste code segments here]

**How would you fix this?**

[Write your answer in this space.]

1. **Stamp Coupling**

[paste code segments here]