Inheritance

In this lab, we will expand the types of people that can be hired, including contractors and interns.

Builds On - Moqlab

Overview

- Define new classes
 - Contractor contractors make a fixed rate X 50 hours
 - Intern interns are always paid a stipend of \$50
 - HumanResource the base class for contractors, interns, and employees
- Define tests for the new classes
- Update Company to contain *Human Resource* objects

Steps

- 1. Create new classes, HumanResource, Company, Intern
- 2. Change Employee to inherit from HumanResource
- 3. Pull up from Employee to HumanResource the common fields and properties
 - first and last name
 - Hiredate
 - YtdGrossPay
- 4. Define Pay as a abstract method in HumanResource
- 5. Define a constructor in *HumanResource* taking first and last name as parameters
- 6. Fix up Employee class
- 7. Change Contractor and Intern to inherit from HumanResource
- 8. Re-run unit tests company and employee tests should still succeed
- 9. Create new classes ContractorTest & InternTest
 - implement tests to specify Pay results
 - verify new tests fail
 - implement Intern & Contractor so that tests pass
- 10. Update CompanyTest to mock HumanResource rather than IEmployee
- 11. Update Company to contain HumanResource objects