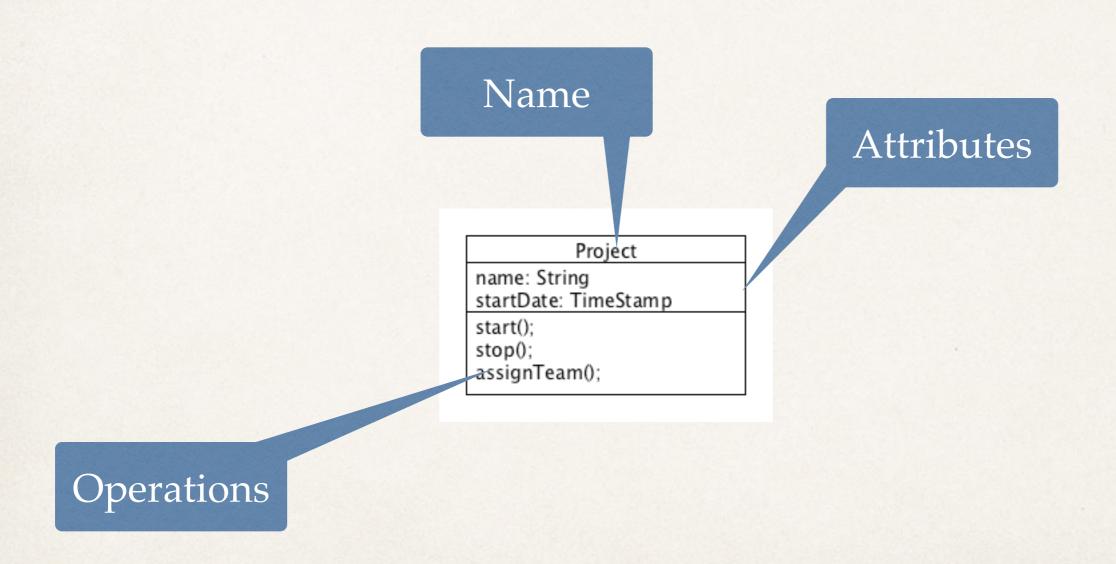
# Project Development (IV\_SYP\_PRE)

**UML Class Diagrams** 

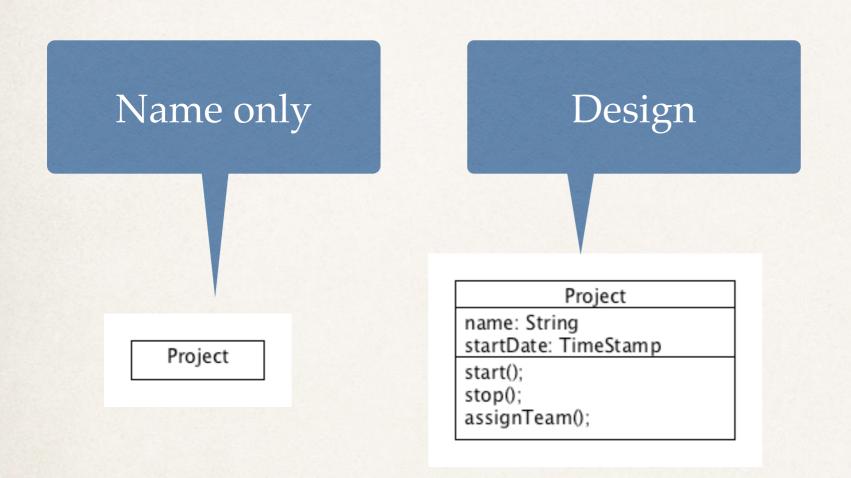
### Purpose

- Helps to document software designs
- Describes static structure of software
- Graphical representation of designs
- Developer developer communication

### Classes

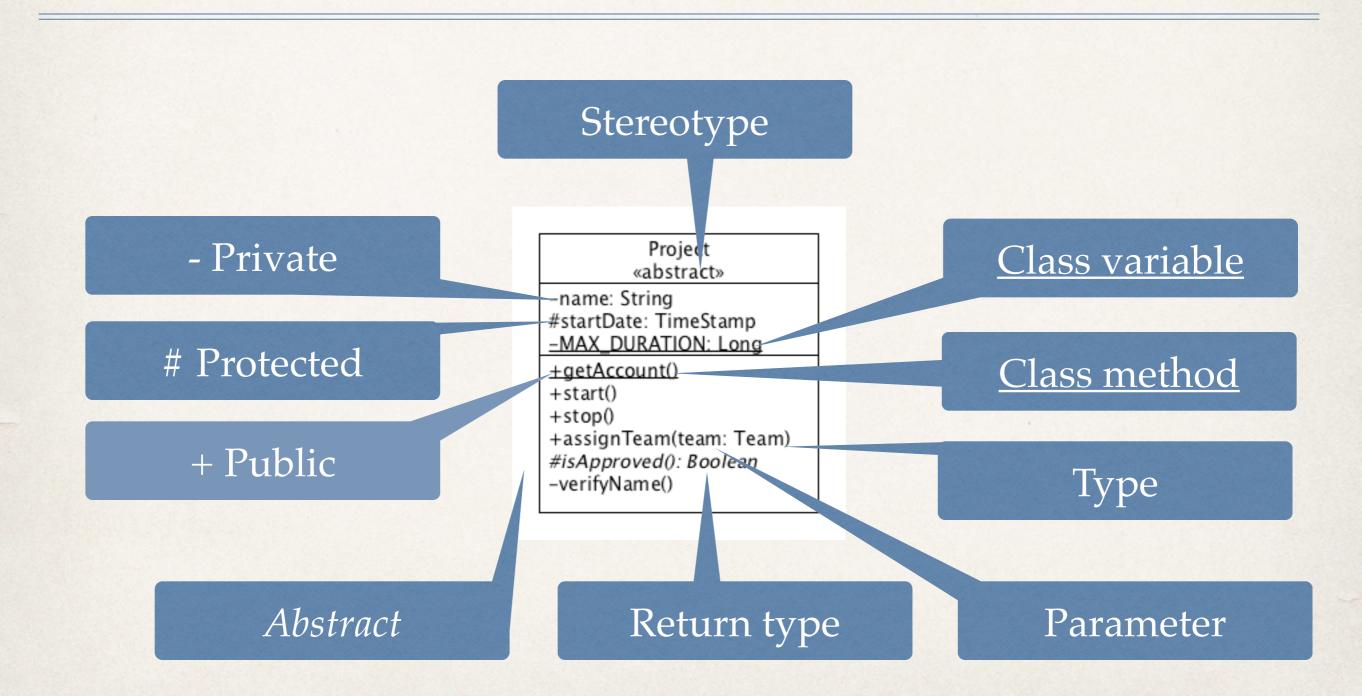


#### Different Levels of Detail

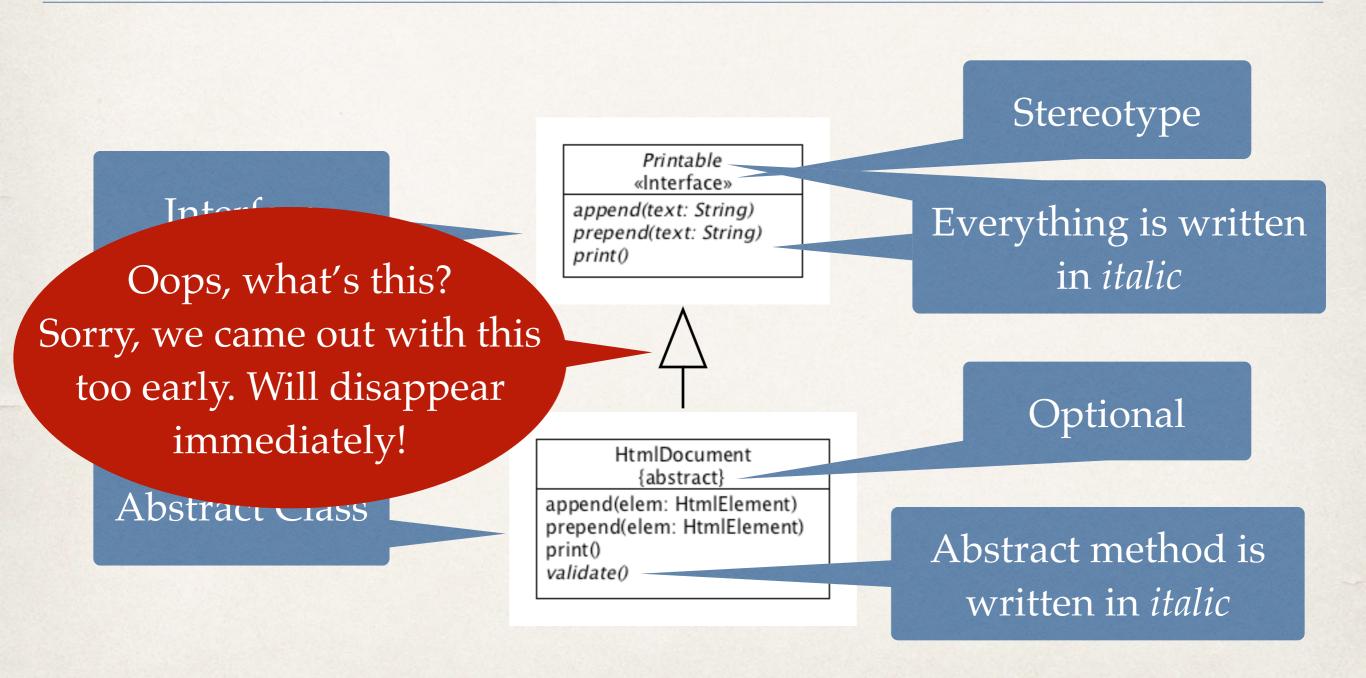


Project
-name: String
#startDate: TimeStamp
+start();
+stop();
+assignTeam(Team t);
-verifyName()

# Symbols and Meanings

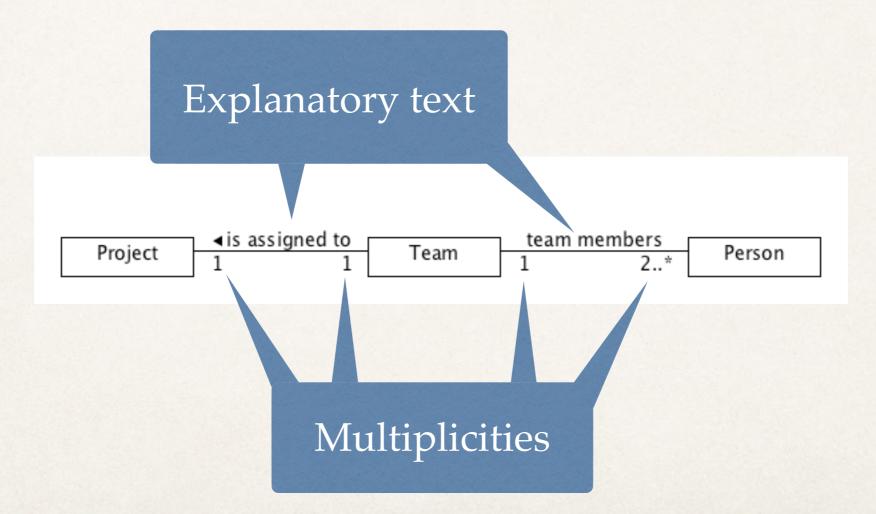


#### Abstract Classes and Interfaces

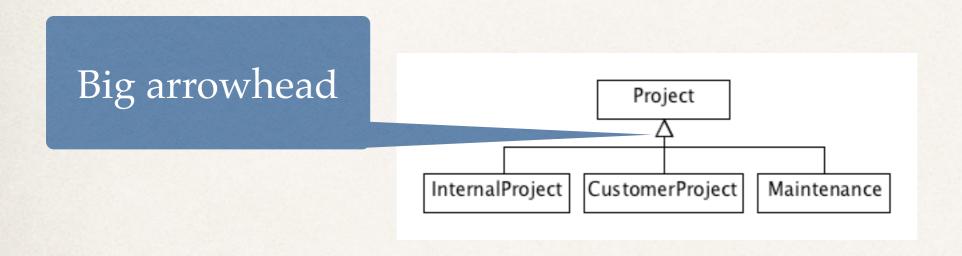


#### Associations

Relate instances of classes



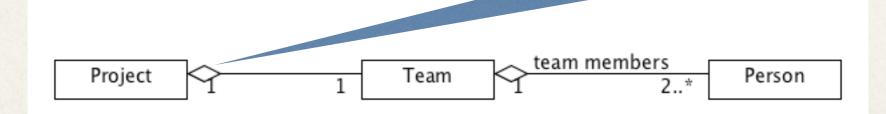
### Inheritance



# Aggregations

- \* "Is part of ..."-relation
- Team is part of a Project
- Person is part of a Team
- Specialization of a general association

Empty diamond



### Compositions

- \* "Is exclusive part of ..."-relation
- \* Team is exclusive part of a Project
  - \* Would imply that team will be canceled if project is canceled
- Specialization of a general association

Filled diamond



# Give it a Try

- Model the application domain of your project
- \* How to approach?
  - Analyze when you talk
  - \* All nouns are candidates for classes
  - All verbs are candidates for methods
  - \* Then look how the classes are related to each other