

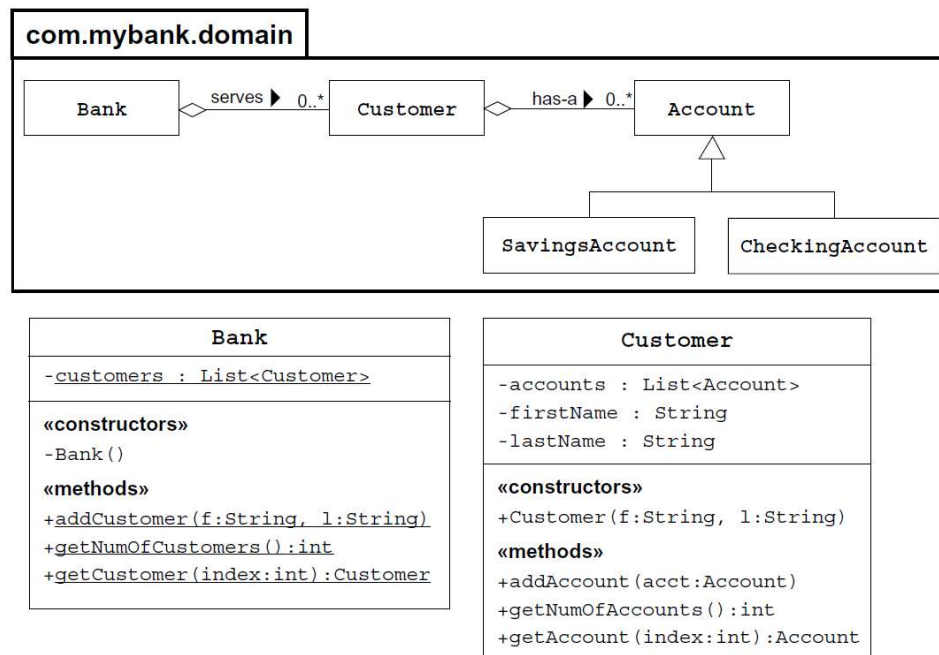
Collections and Generics Framework

Lab 13: Using Collections to Represent Association

In this exercise, you use generic collections to represent class associations in the BankProject domain model.

In your previous design, arrays were used to implement multiplicity in the relationships between the bank and its customers, and between customers and their accounts. This design has several significant limitations; the most significant is that the array, after it is created, has a fixed size. The Collections API was created to solve this and other limitations.

Figure below shows the domain model of the BankProject with the class associations; a bank serves many customers, and a customer has many accounts. The figure also shows the detailed design for Bank and Customer classes that use a generic List to maintain these links.



1. Modify the Bank class file in the com.mybank.domain package. This class must satisfy the UML diagram shown above.
2. Modify the Customer class file in the com.mybank.domain package. This class must satisfy the UML diagram shown above.
3. Run the TestReport class. The output should be similar to the following.

CUSTOMERS REPORT

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Customer: Simms, Jane
Savings Account: current balance is 500.0
Checking Account: current balance is 200.0

Customer: Bryant, Owen
Checking Account: current balance is 200.0

Customer: Soley, Tim
Savings Account: current balance is 1500.0
Checking Account: current balance is 200.0

Customer: Soley, Maria
Savings Account: current balance is 150.0