

# Software Re-Engineering

## Midterm-1 Revision



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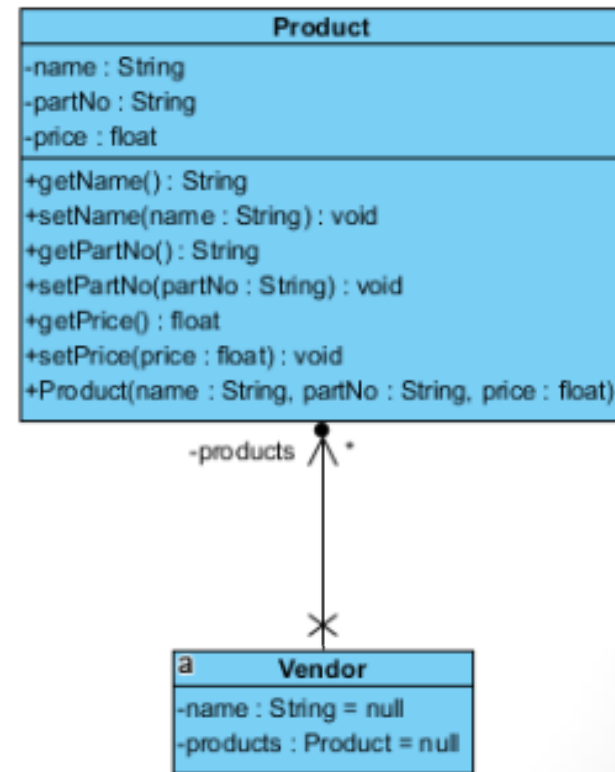
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# Reverse Engineering - Convert Source Code to Class Diagram

```
class Product {  
    private String name;  
    private String partNo;  
    private float price;  
  
    public Product(String name, String partNo,  
        float price){  
        this.name = name;  
        this.partNo = partNo;  
        this.price = price;  
    }  
  
    public void setName (String name){  
        this.name = name;  
    }  
    public String getName(){  
        return name;  
    }  
  
    public void setPartNo(String partNo){  
        this.partNo = partNo;  
    }  
    public String getPartNo(){  
        return partNo;  
    }  
  
    public void setPrice(float price){  
        this.price = price;  
    }  
    public float getPrice(){  
        return price;  
    }  
}  
  
import java.util.vector  
  
public class Vendor{  
    private vector<product> products = null;  
    private string name = null;  
}
```



# Reverse Engineering - Convert Source Code to Sequence Diagram

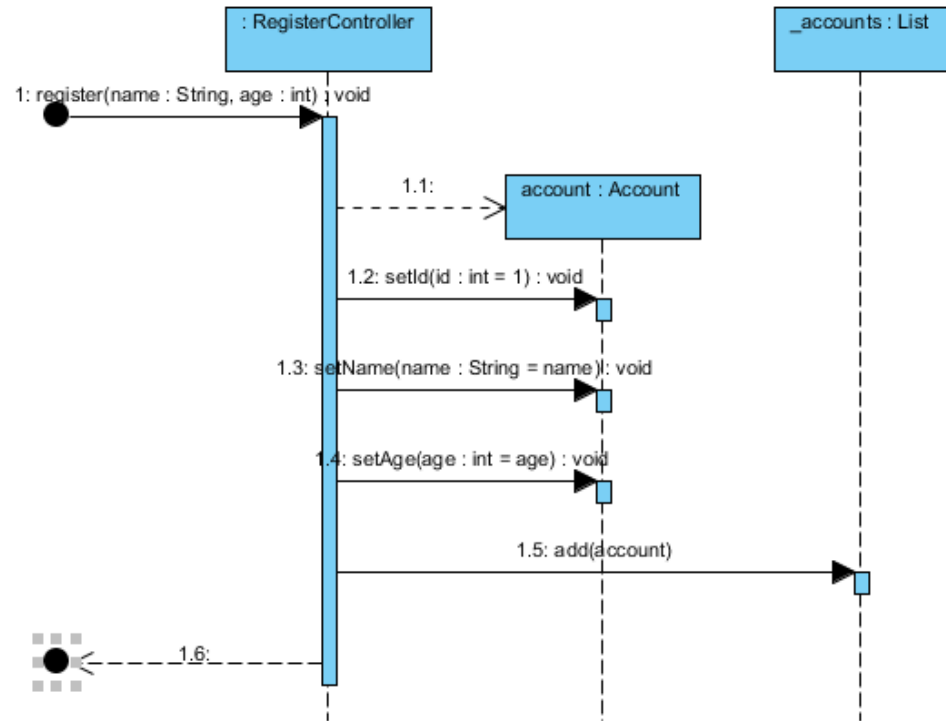
```
import java.util.*;

public class RegisterController{

    private List _accounts = new ArrayList();

    public void register(String name, int age){
        Account account = new Account();
        account.setId(1);
        account.setName(name);
        account.setAge(age);
        _accounts.add(account);
    }

    public List getAccounts(){
        return _accounts;
    }
}
```



Thank You!

