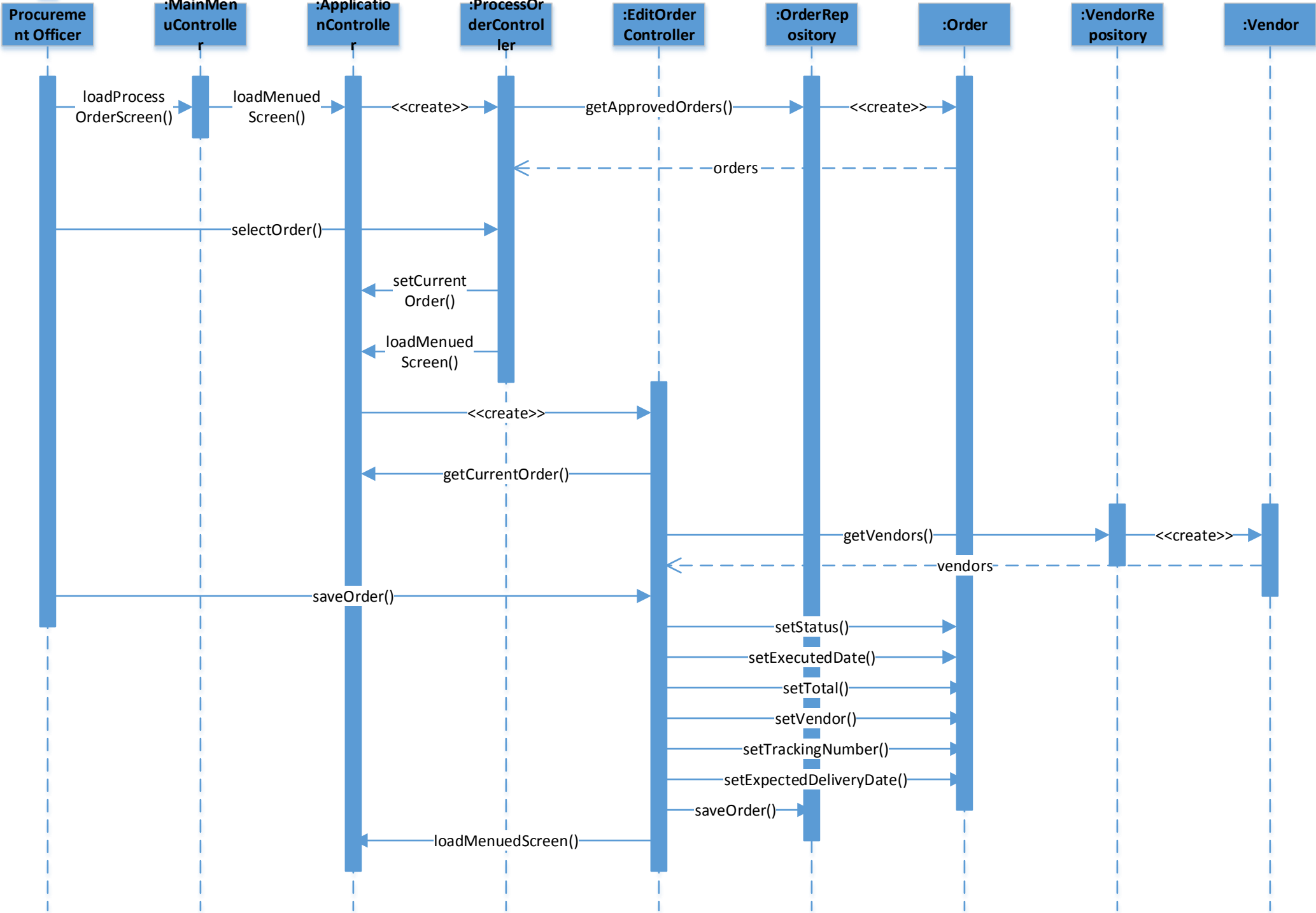


# Procurement System

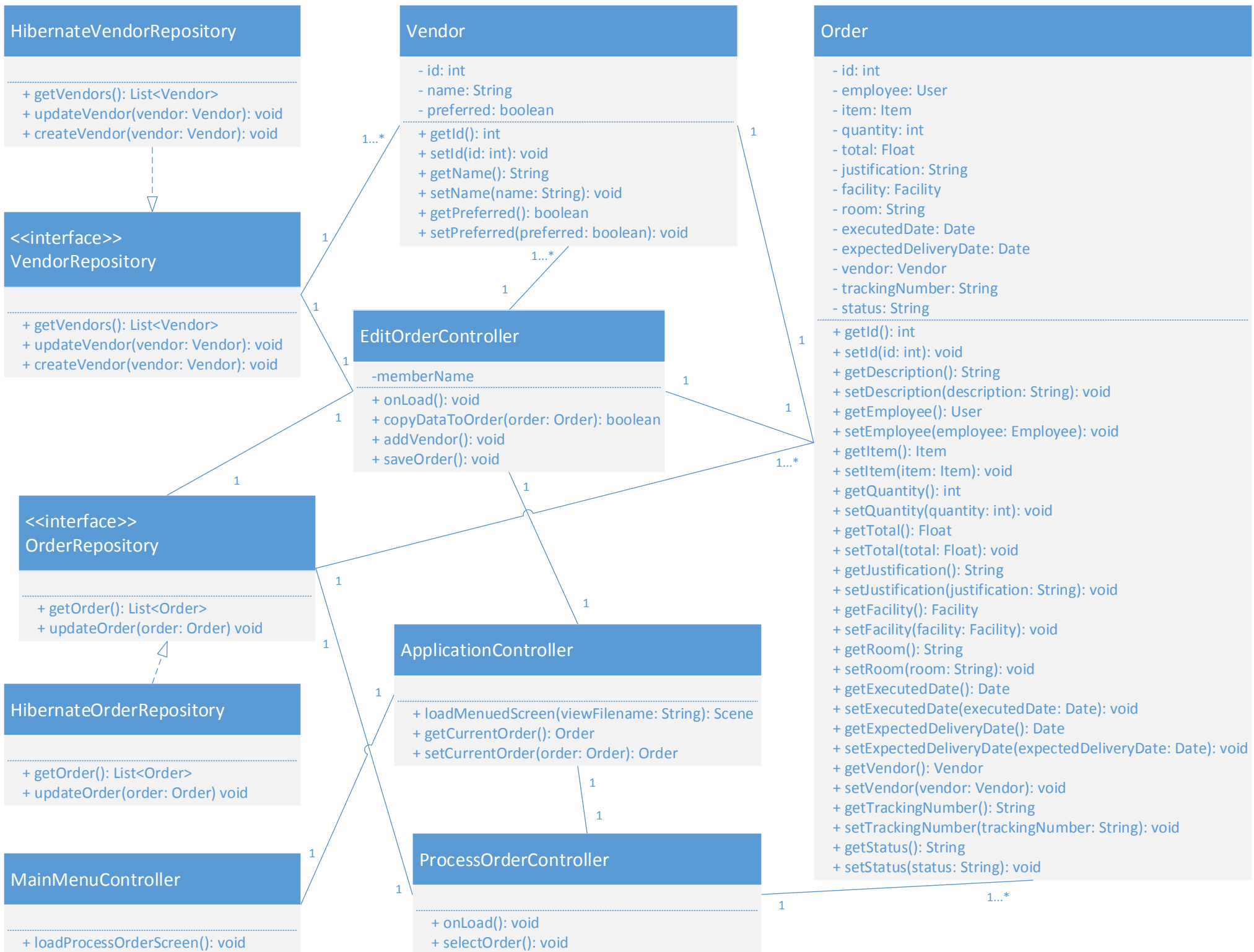
Group 34: Doug Falconieri, Walid  
Sharif, Yi Chen Kuo



# Sequence Diagram



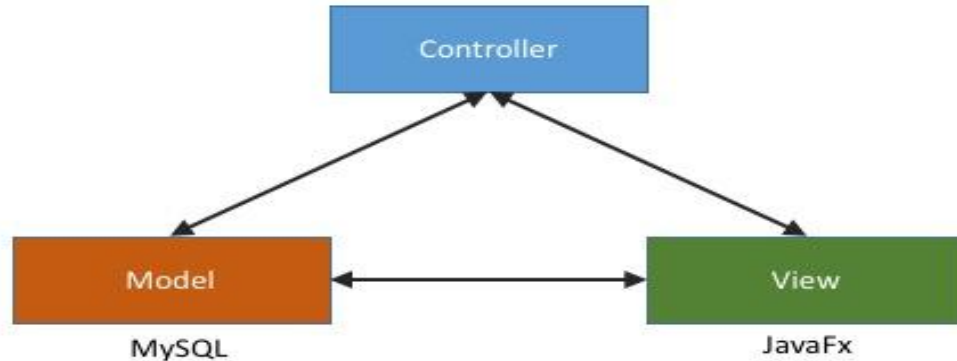
# Simplified Class Diagram



# MVC Pattern

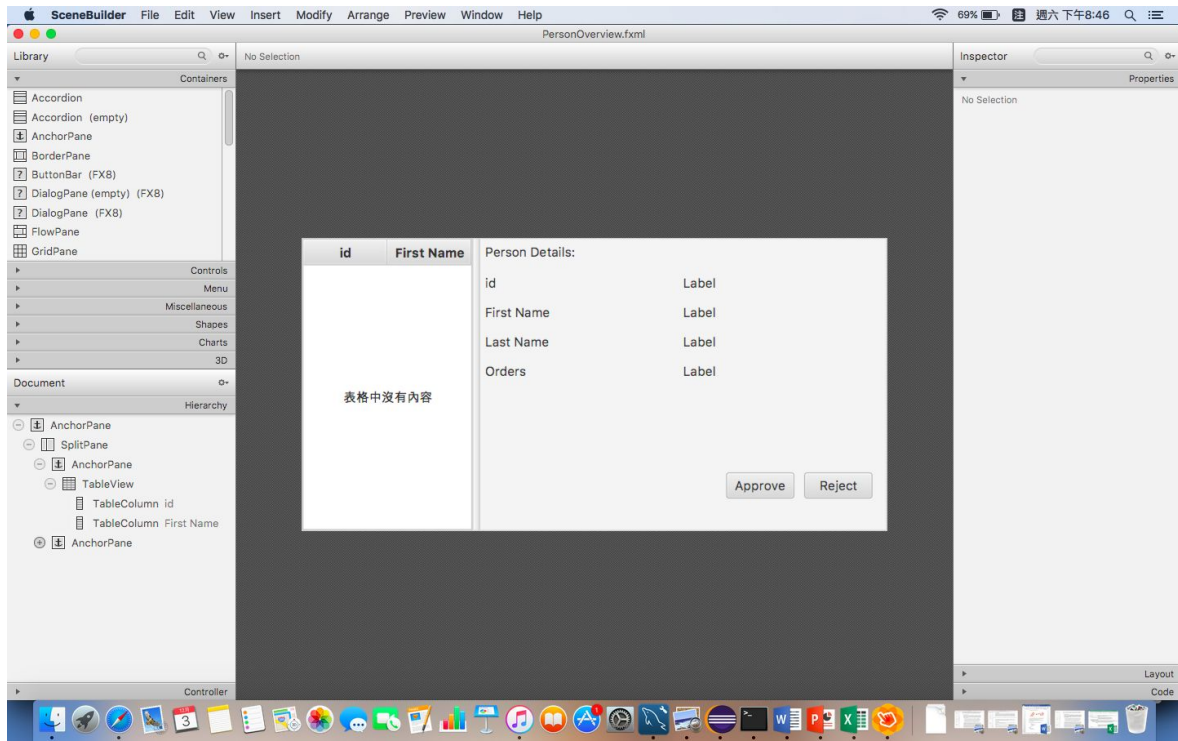
# MVC Pattern

- View : Using JavaFx to establish GUI
- Model: Set up relation between MySQL and classes in Java
- Controller: Connect the input from user and run the specific function



# MVC Pattern

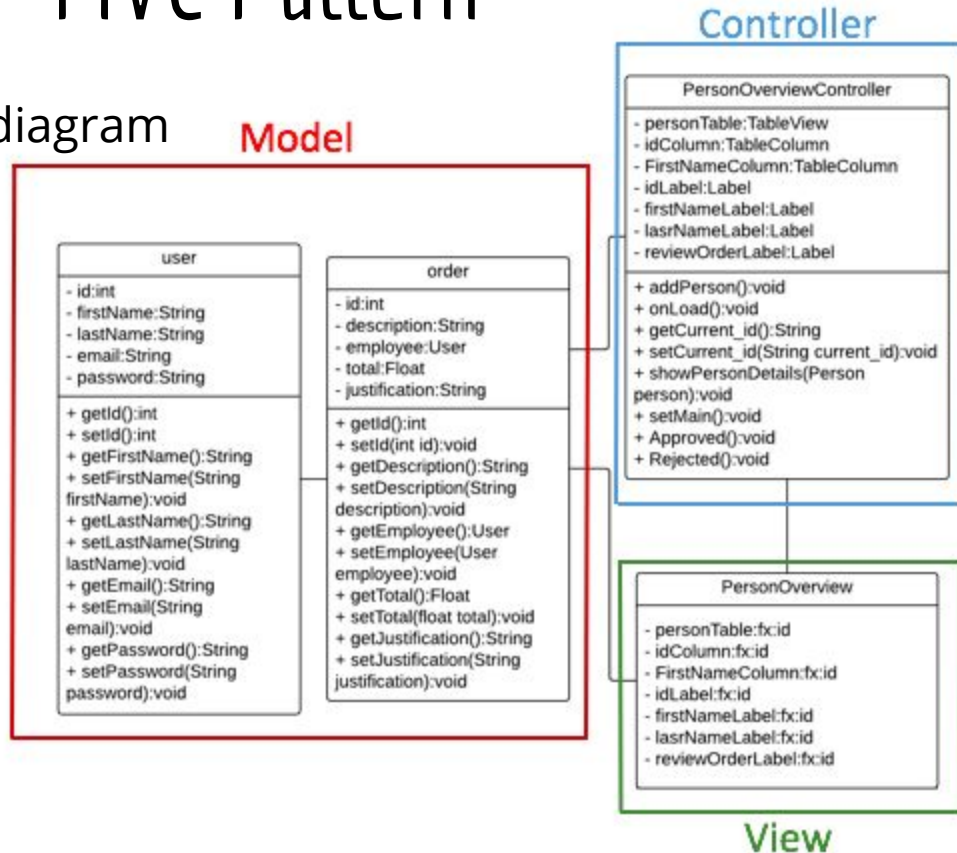
- JavaFx: Using Scene Builder to generate FXML





# MVC Pattern

- Simplification of Class diagram





# State Pattern

Doug Falconieri



# Before

```
boolean isEditable;

if (order.getStatus().equals(OrderStatus.IN_WORK) {

    if (getCurrentUser().getId() == order.getEmployee().getId()) {

        isEditable = true;

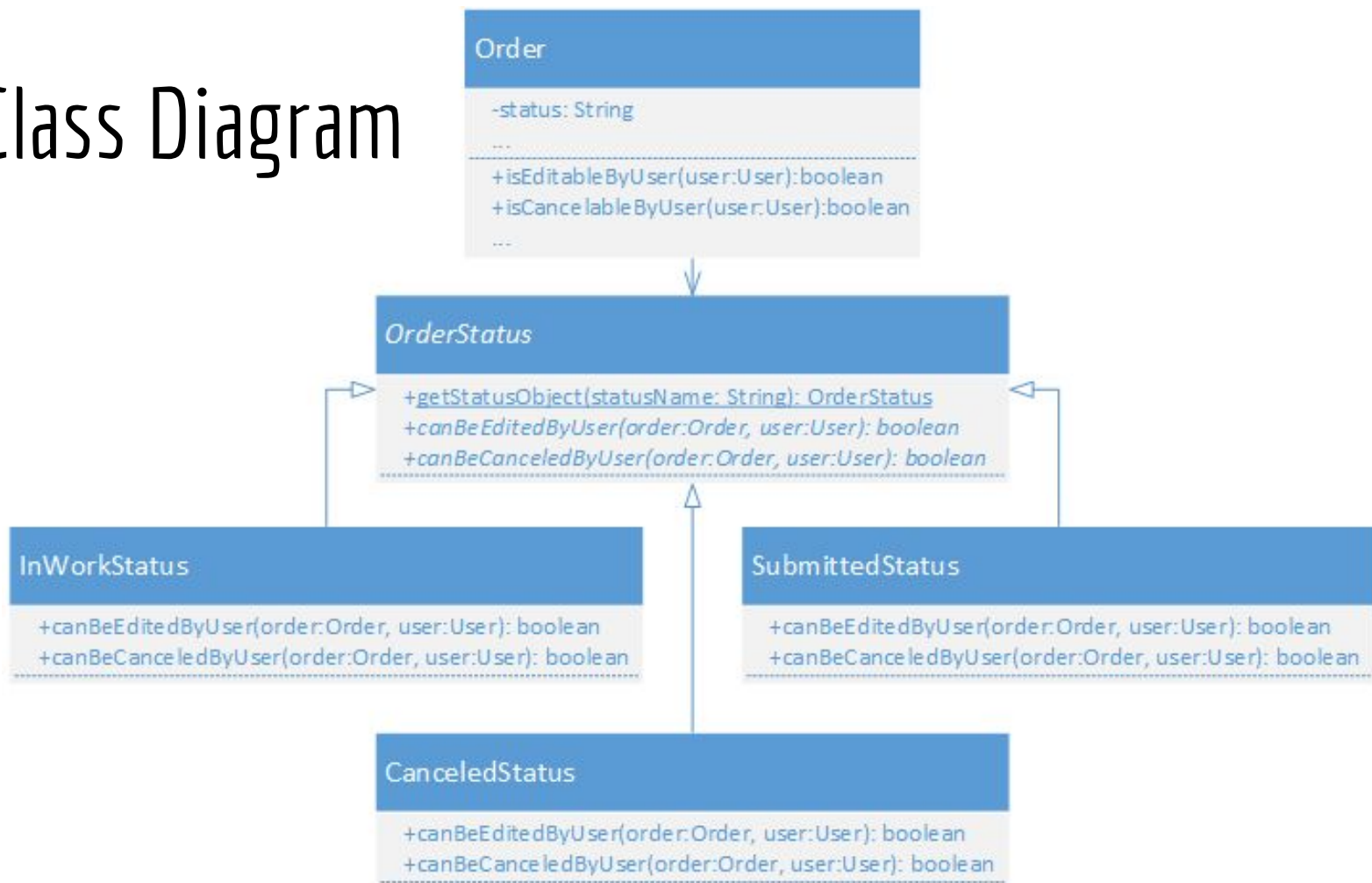
    } else {

        isEditable = false;

    } else if (order.getStatus().equals(OrderStatus.SUBMITTED) {

//Plus additional logic for several other states!
```

# Class Diagram



# After

Order.java:

```
OrderStatus statusObject = OrderStatus.getStatusObject(status);  
  
return statusObject.canBeEditedByUser(this, user);
```

InWorkStatus.java:

```
@Override  
  
public boolean canBeEditedByUser(Order order, User user) {  
  
    return user.getId() == order.getEmployee().getId();  
  
}
```

You can find our group presentation video on Google Drive at  
<https://drive.google.com/open?id=0B9f9Ae1v2OJaQ09ZZ19oWkhpckk>.