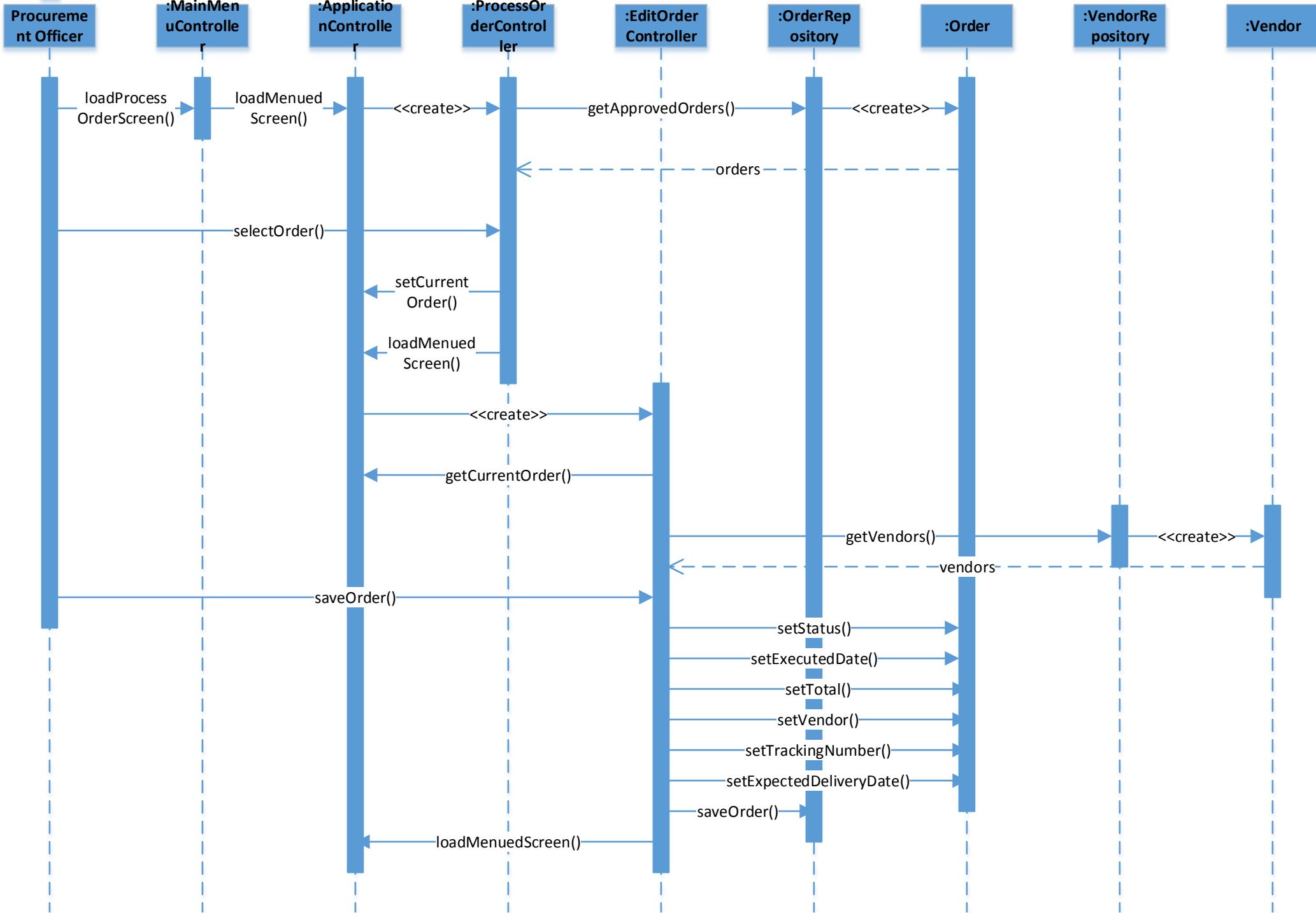


Procurement System

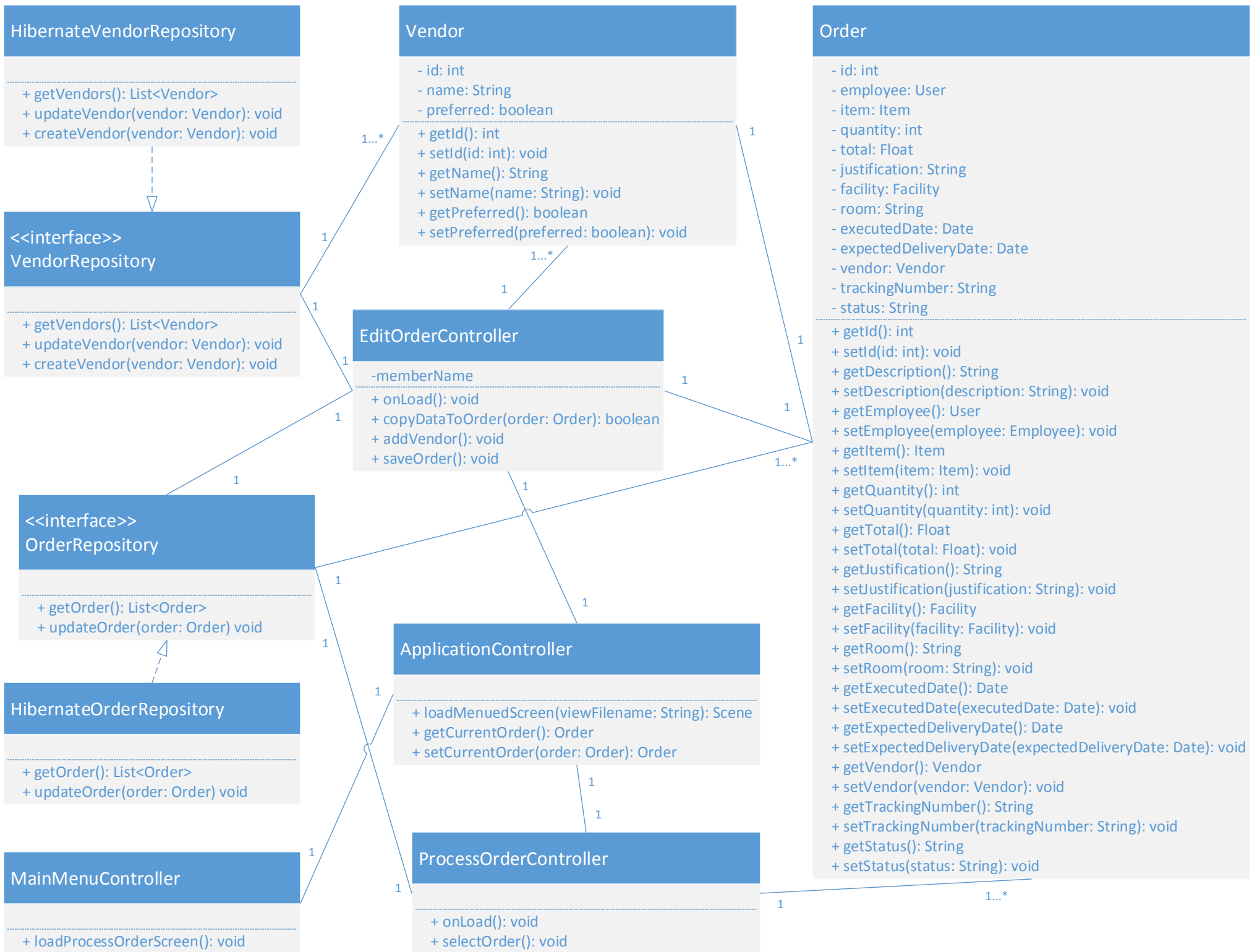
Group 34: Doug Falconieri, Walid
Sharif, Yi Chen Kuo



Sequence Diagram



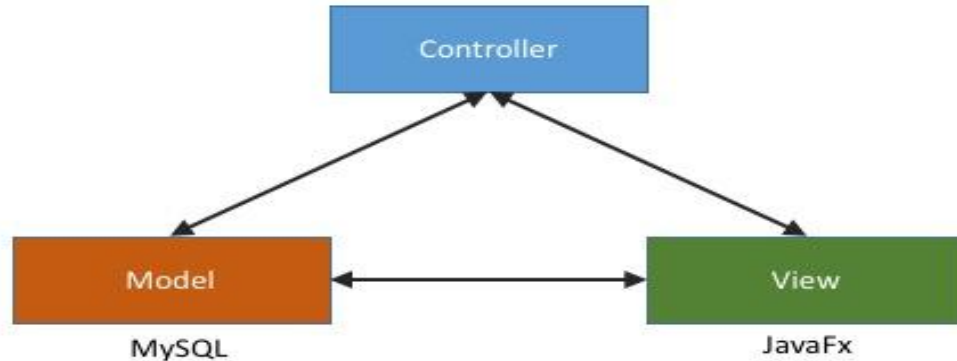
Simplified Class Diagram



MVC Pattern

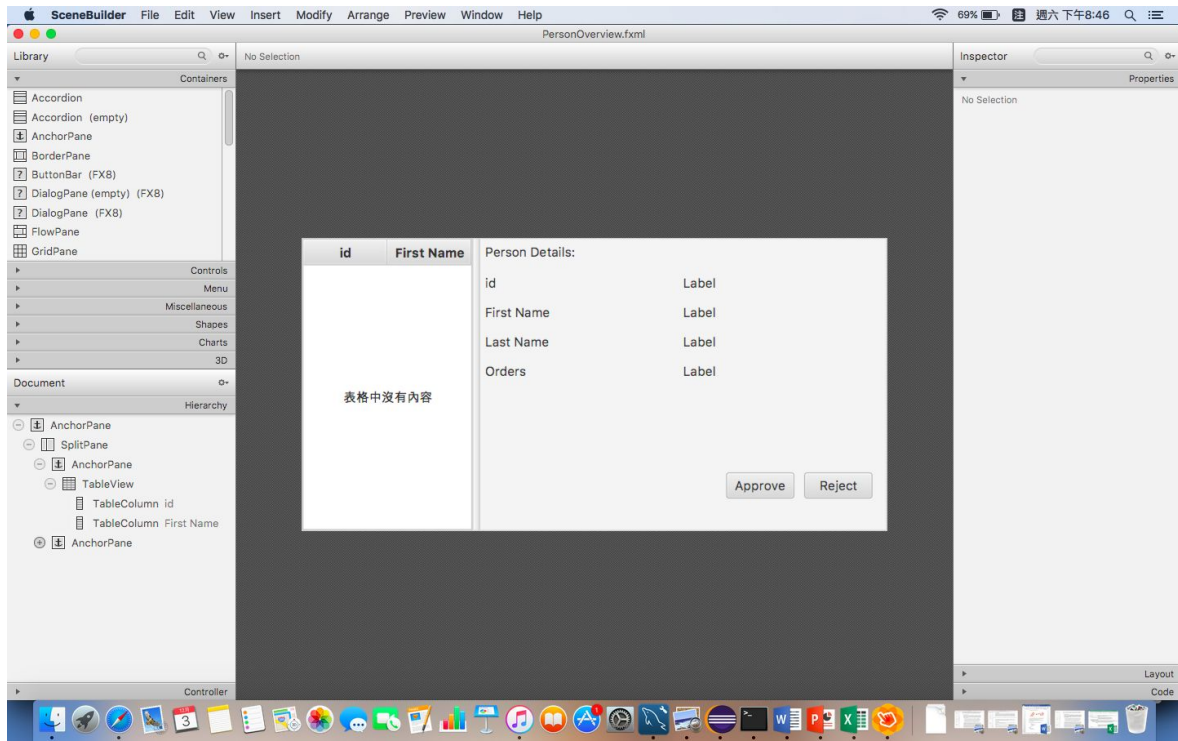
MVC Pattern

- 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



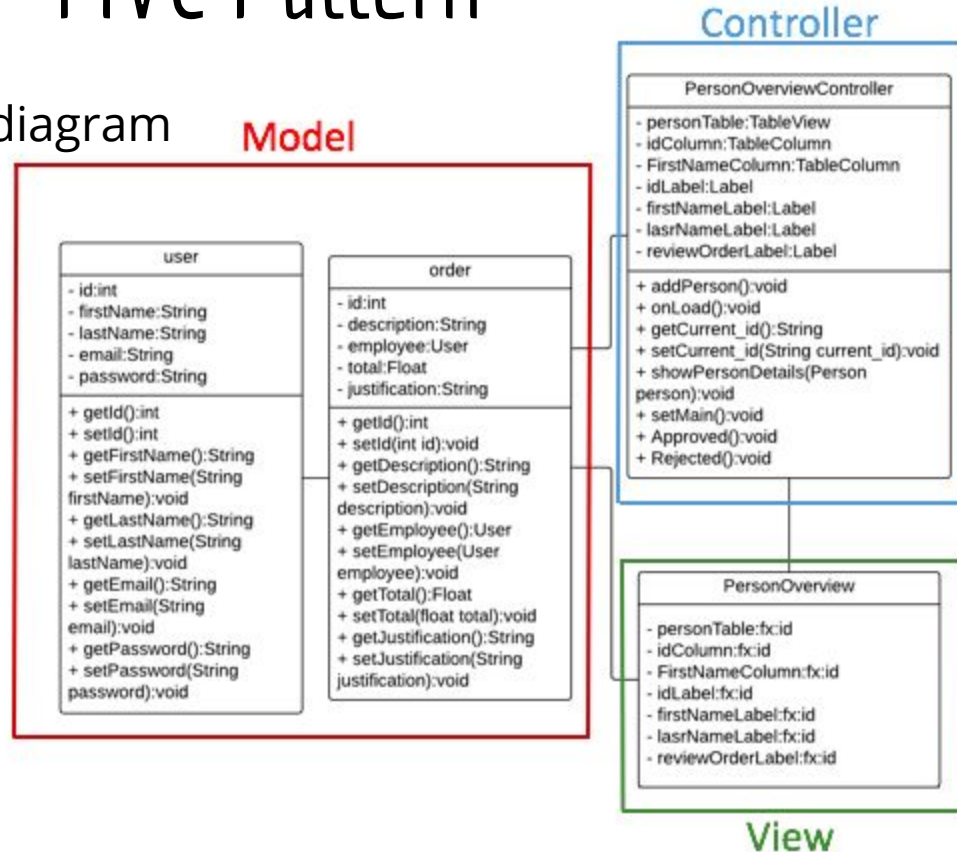
MVC Pattern

- 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;

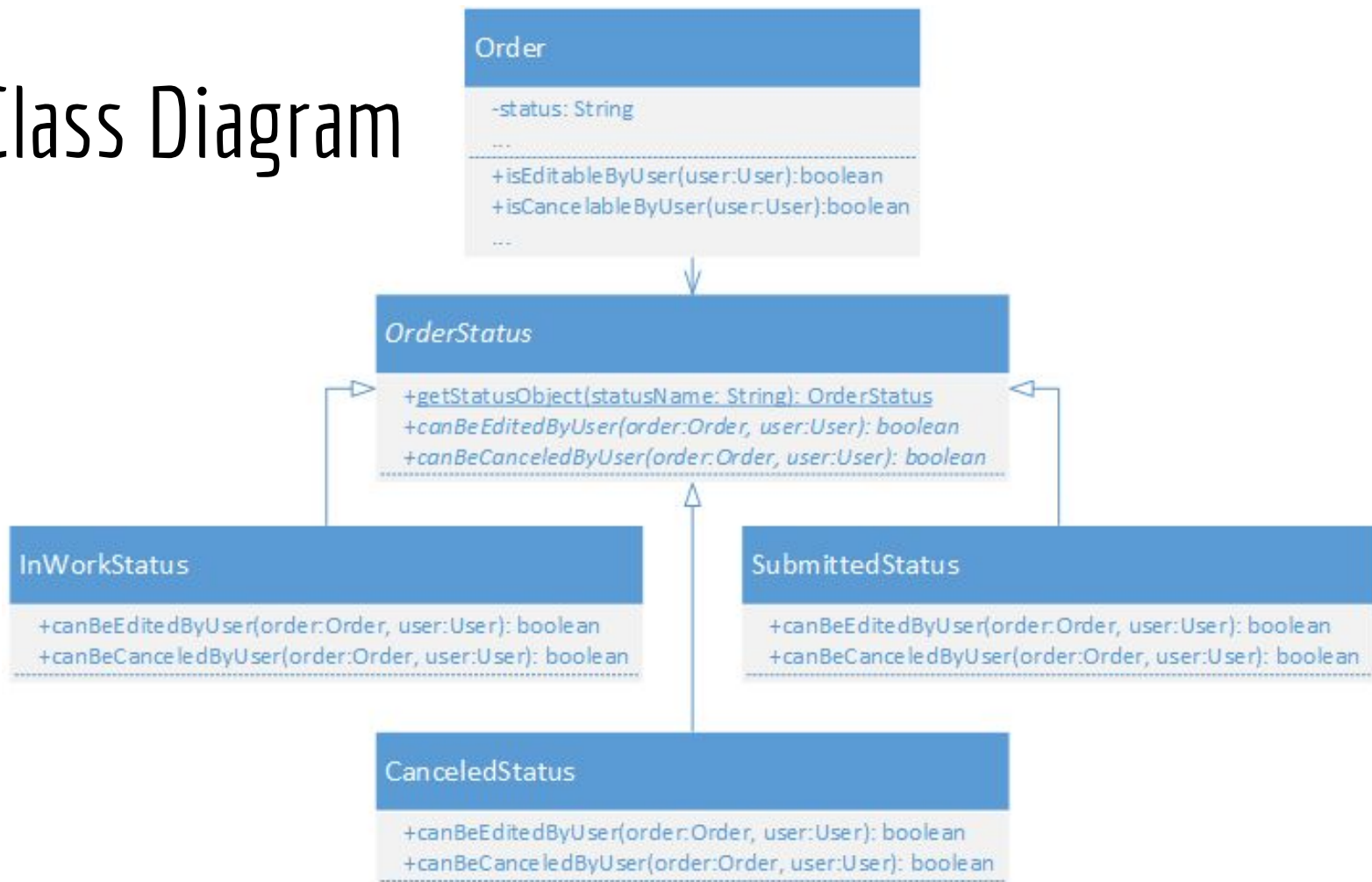
    } else {

        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();  
  
}
```