Reacting To User Operations In the UI



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Outline



Event

- Input Events
- Event Filters
- Event Handlers
- Action Events

Implement add/update task

Alert Dialog



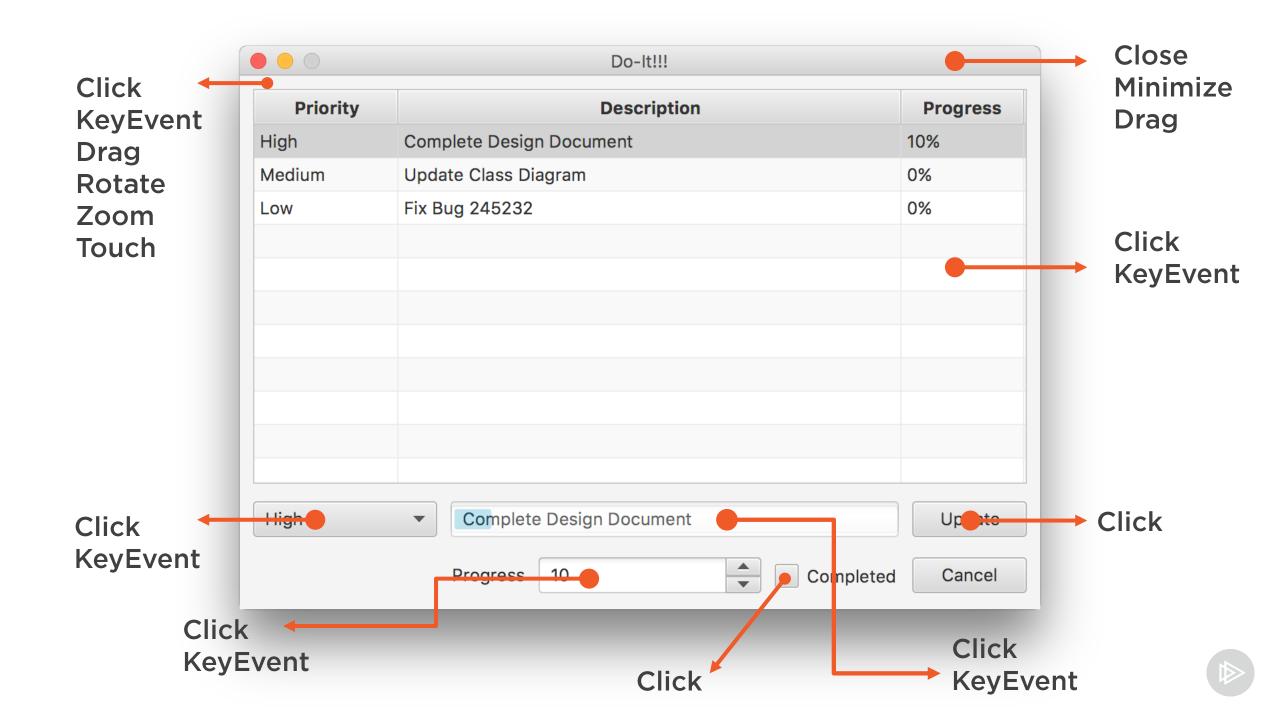
Event

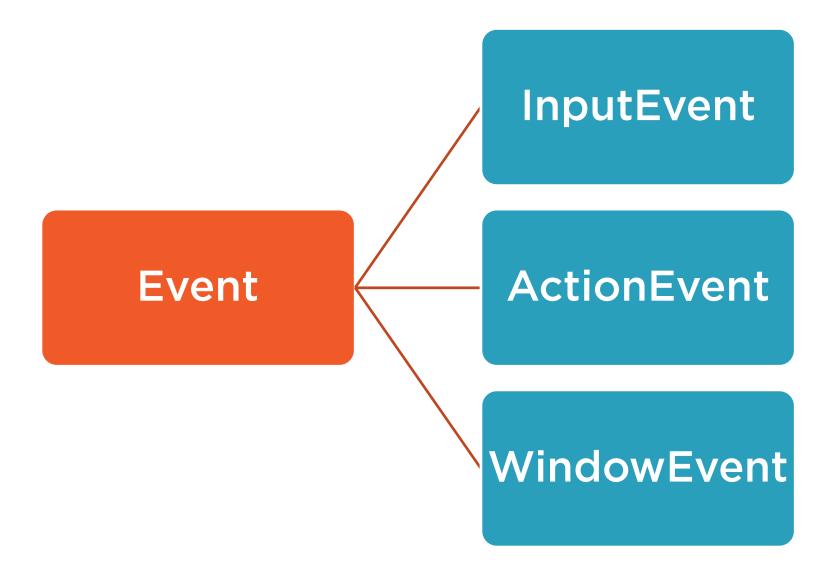


Event

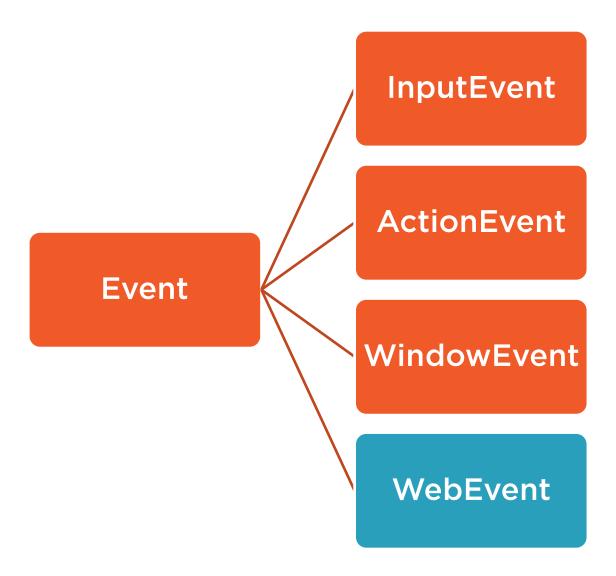
Represents an occurrence of something of interest to the application, such as a mouse being moved or a key being pressed.



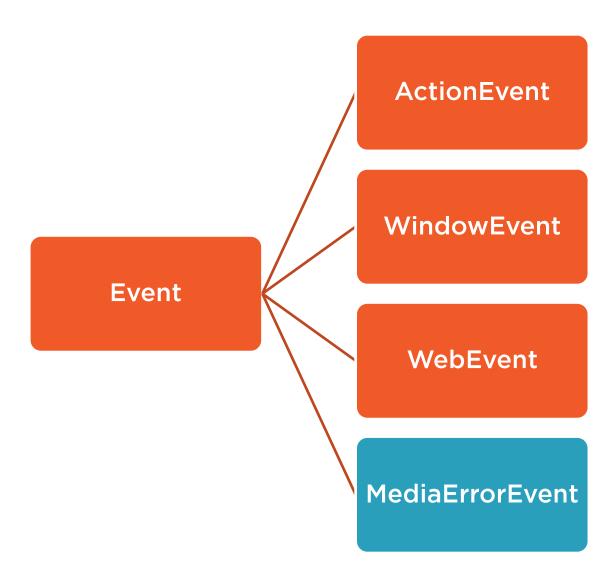




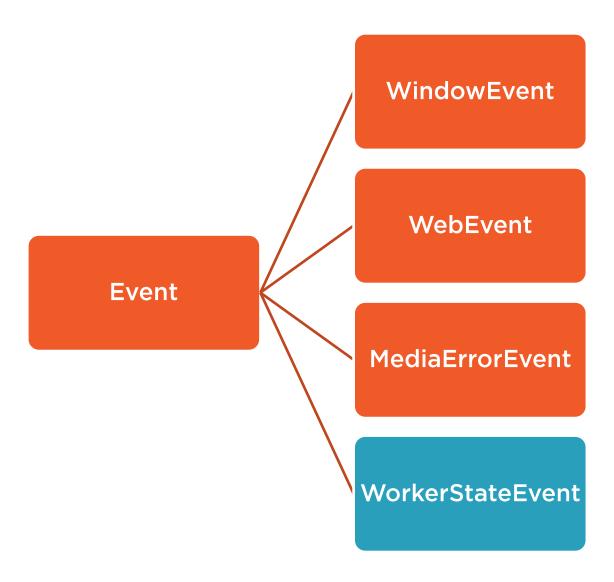




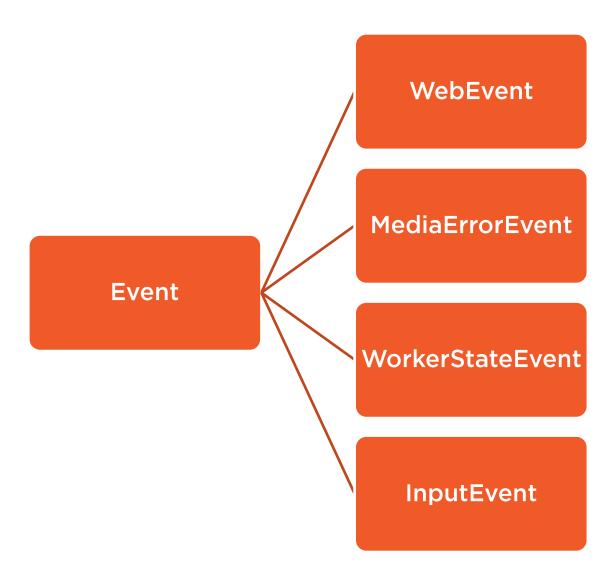




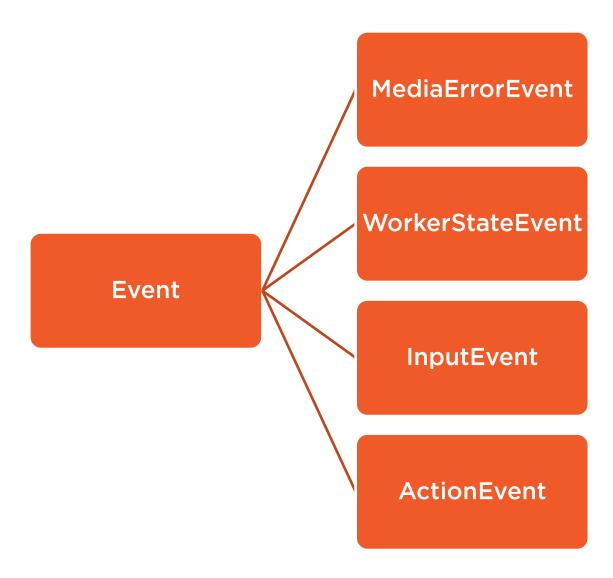




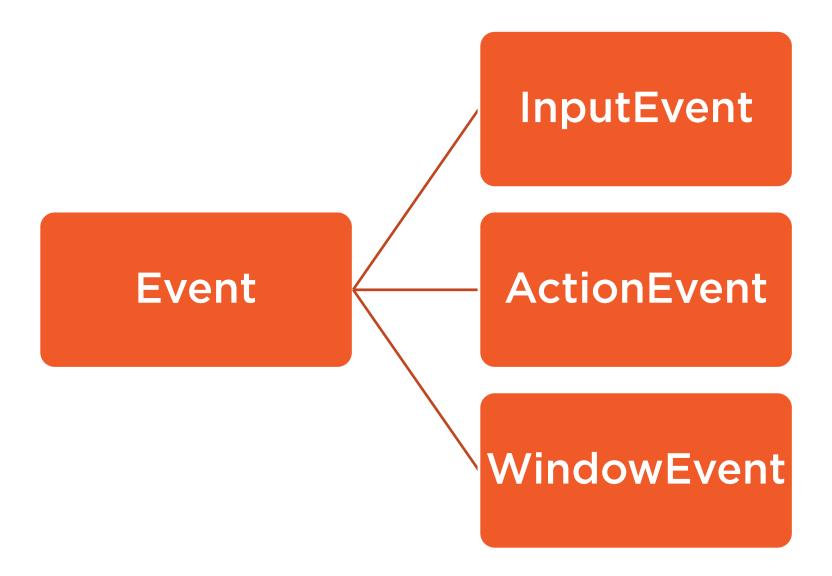


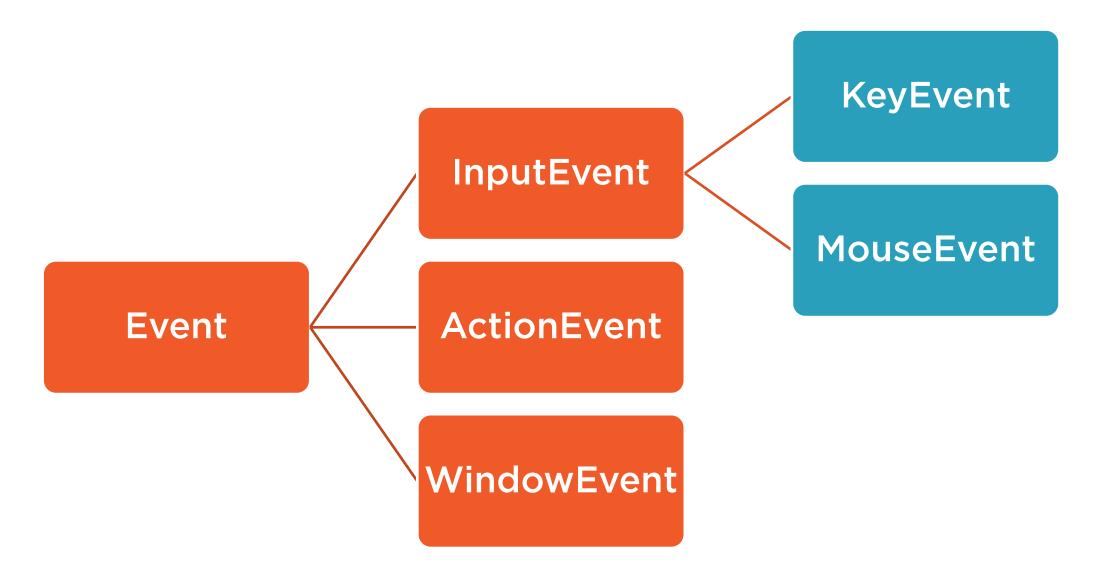




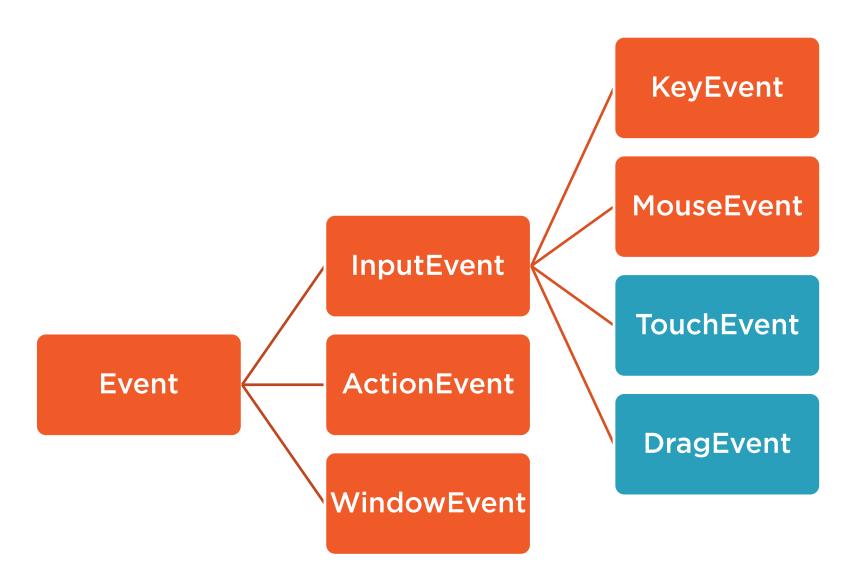




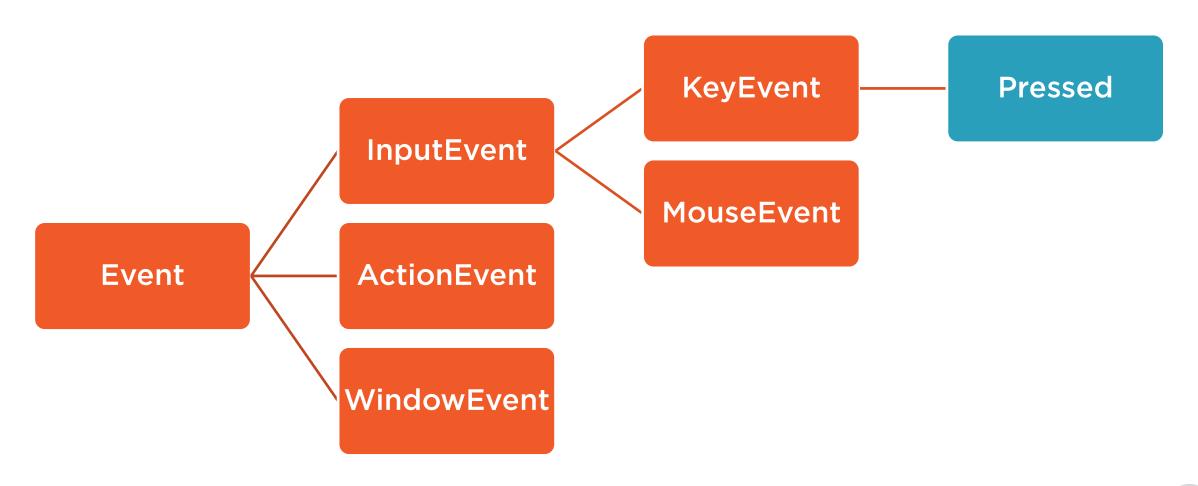




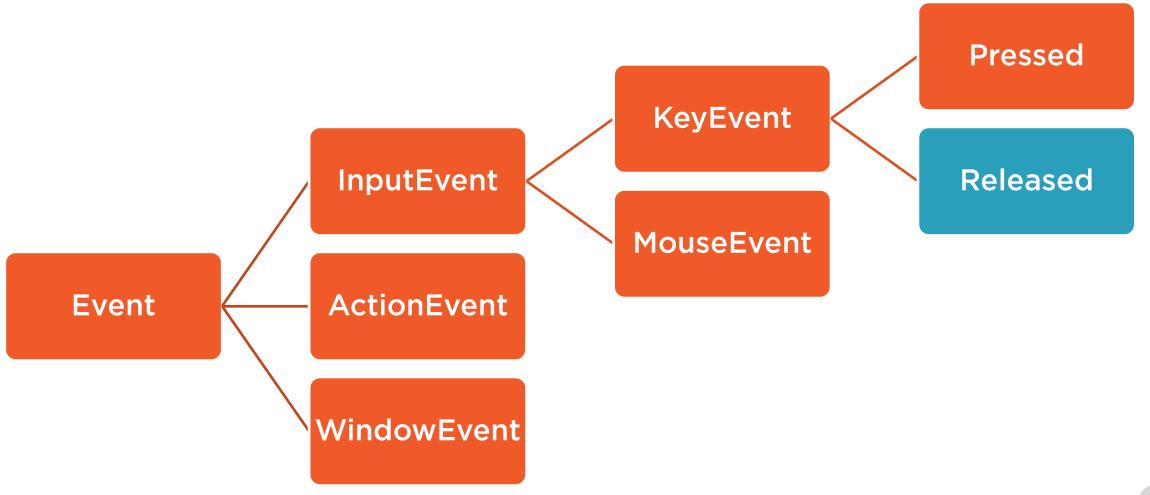




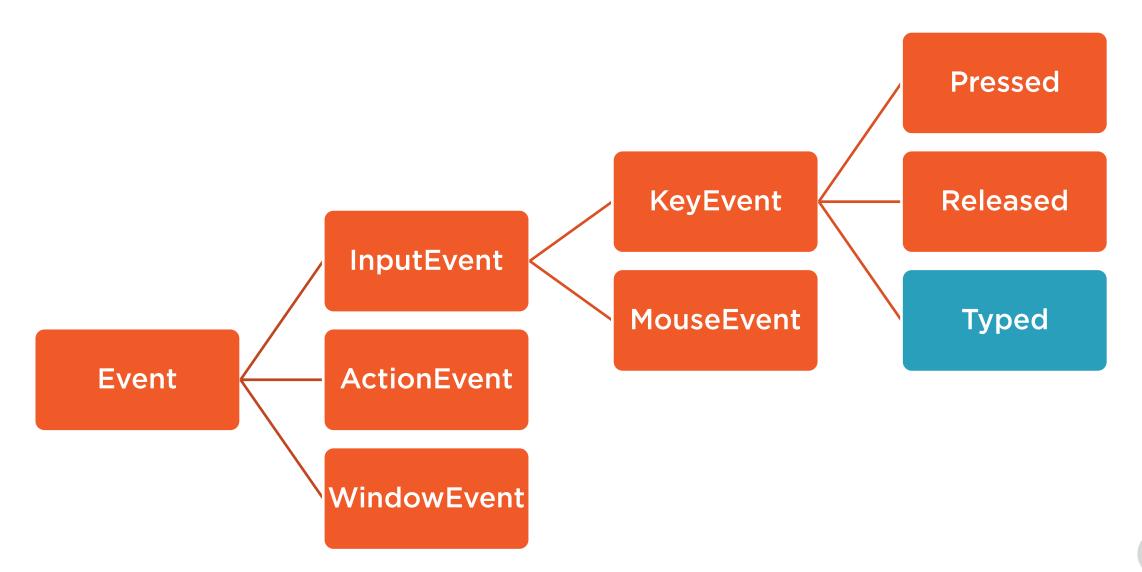




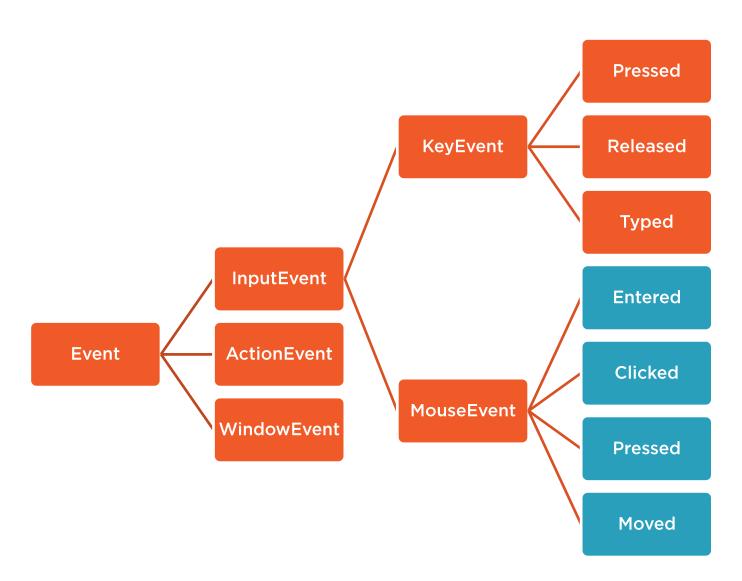




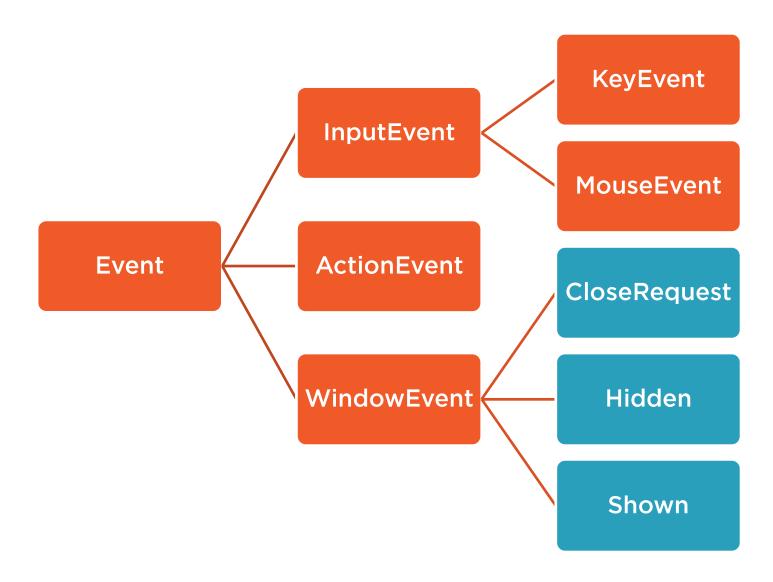








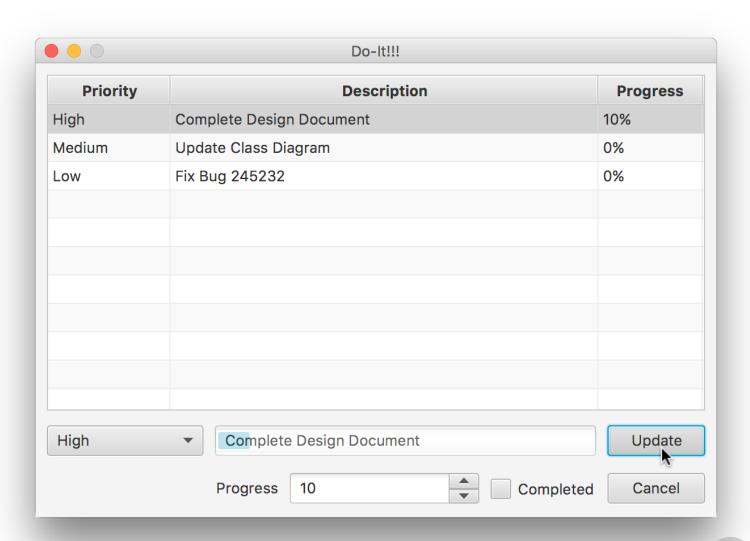




Event Processing

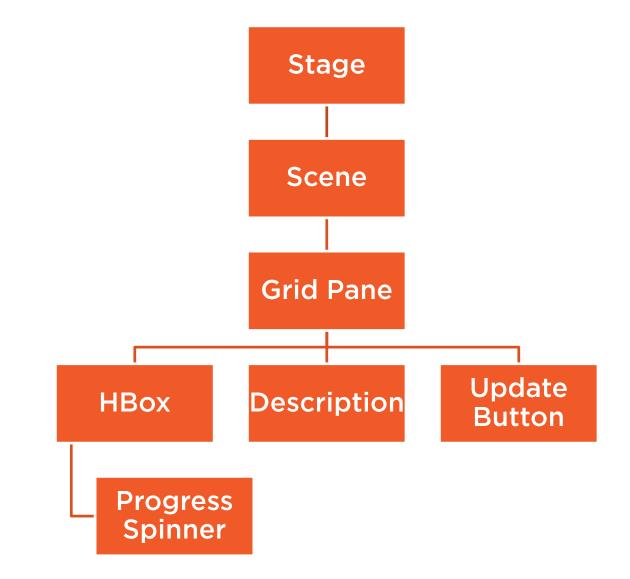






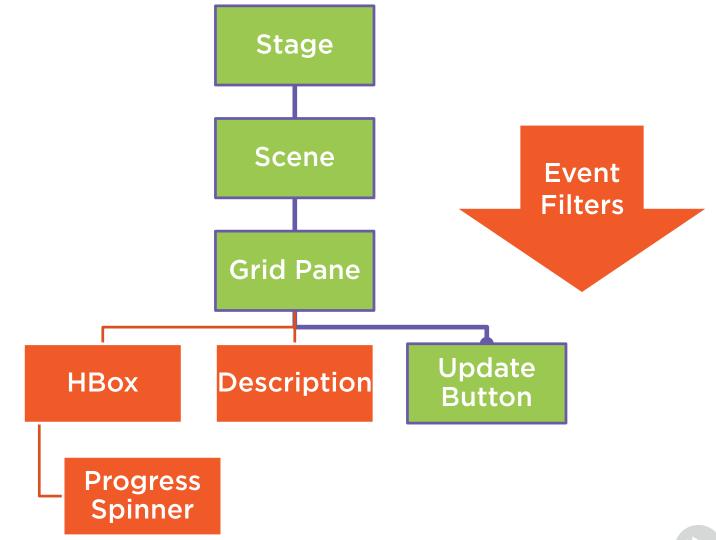






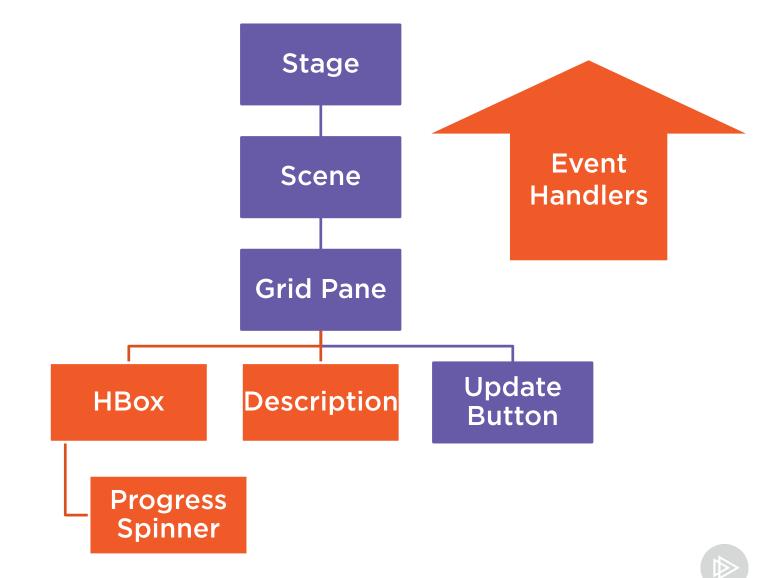












Registering Handlers & Filters



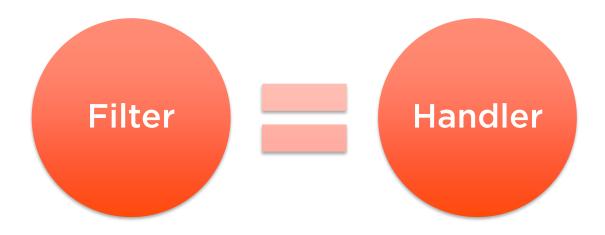
```
add.addEventHandler(MOUSE_RELEASED, new EventHandler<Event>(){
    @Override
    public void handle(Event event) {
        System.out.println("Handler: Released");
    }
});
```

Event Handler



```
add.addEventFilter(MOUSE_RELEASED, new EventHandler<Event>(){
    @Override
    public void handle(Event event) {
        System.out.println("Filter: Released");
        event.consume();
    }
});
```

Event Filter





Demo



Event Handlers

Event Filters

Event Consumption

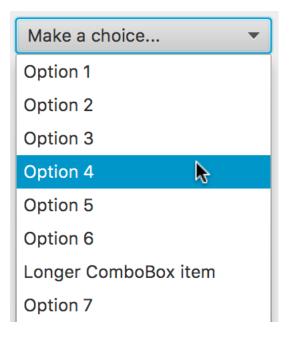


Action Event



Plain Text Button

My Text





Two ways to set Action Event Handlers



Demo



Demonstrate Action Event
Implement Add/Update Operation
Implement Cancel operation



Alerts & Dialogs



```
Alert alert = new Alert(AlertType.INFORMATION);
alert.setTitle("Info Dialog");
alert.setHeaderText("Some Information Dialog");
alert.setContentText("I have some news for you!");
alert.showAndWait();
```

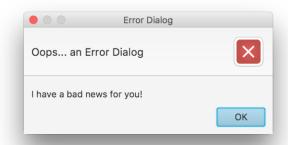
Information Dialog





```
Alert alert = new Alert(AlertType.ERROR);
alert.setTitle("Error Dialog");
alert.setHeaderText("Oops... an Error Dialog");
alert.setContentText("I have a bad news for you!");
alert.showAndWait();
```

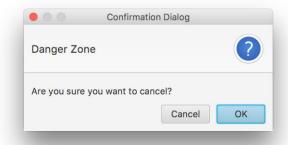
Frror Alert





```
Alert alert = new Alert(AlertType.CONFIRMATION);
alert.setTitle("Confirmation Dialog");
alert.setHeaderText("Danger Zone");
alert.setContentText("Are you sure you want to cancel?");
Optional<ButtonType> confirmation = alert.showAndWait();
if(confirmation.get() == ButtonType.CANCEL)
    System.out.println("Cancelled");
```

Confirmation





Other Dialogs

TextInputDialog

For reading an text input

ChoiceDialog

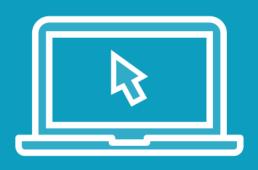
For showing a list of values

Dialog

For creating custom dialogs



Demo



See some examples of Dialogs

Implement a cancel confirmation



Summary



Event Handling Mechanism

Implemented Add/Update Functionality

Implemented Cancel

Learnt about dialogs

Confirm before cancelling

