JavaFx Framework

Frontend building platform for Desktop & Mobile



Vaibhav Zodge

- 7020616260
- info.dnyanyog@gmail.com
- https://www.dnyanyog.org
- https://github.com/zodgevaibhav



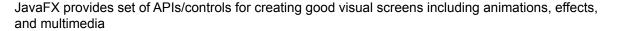
JavaFx



"Open source client application platform for desktop, mobile and embedded systems built on Java"

JavaFX developed by Sun Microsystems in December 2008 as a modern alternative to Swing

Became popular because of it uses Java programming language





Cross platform support Windows, Linux, MAC & Mobile devices

Supports CSS stylesheet for generic and reusable UI attributes

Work seamlessly Java echo system like Spring, Spring Boot, hibernate etc...

Java Fx Setup



Getting started

https://openifx.io/openifx-docs/

Download JavaFx library

https://openjfx.io/

Download JavaFx Scene builder

https://gluonhq.com/products/scene-builder/

Scene Builder & JavaFx SDK



Scene builder helps to create screens using drag and drop kind of tool

Screen built then stored as xml file with special format called "jfxml"

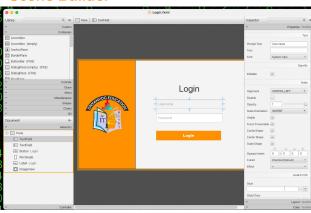
We can load the screen (jfxml) file using JavaFx library (class and methods)

Define buttons and the functions to call on click of those buttons or controllers

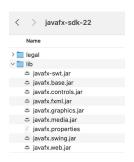
JavaFx library have all the required features to run the application

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Scene Builder

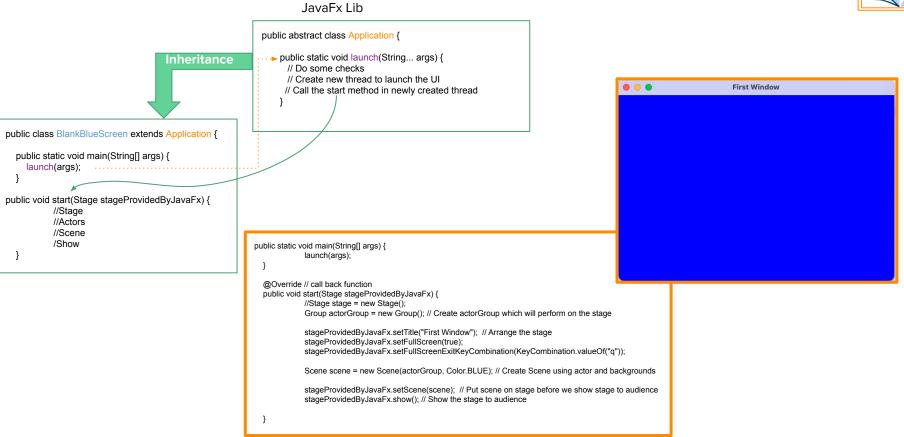


JavaFx SDK



Java Fx





Run Configuration

ATT O 1

To show window java needs to communicate with Windowing system

Dynamic Libraries are required to communicate with Windowing system

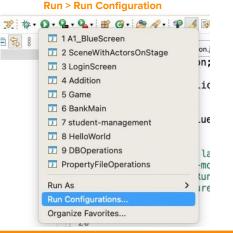
JavaFx provides Dynamic Link Libraries (dyLib-> Mac, DLL-> Windows, SO-> Linux

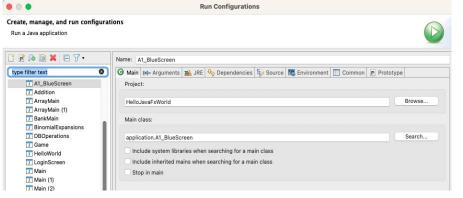
These DLL path needs to set while running the program along with jar's

VM Argument, give your lib path should be c:\java_development\javafx-sdk-19\lib

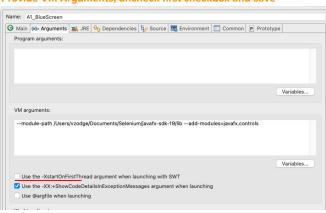
--module-path /Users/vzodge/Documents/Selenium/javafx-sdk-19/lib --add-modules=javafx.controls

Give Name, Select Project and Main Class





Provide VM Arguments, uncheck first checkbox and save



Click on Run to run the program



Always use this configuration to run program



FXML



Design the UI using scene builder

Export UI to fxml file

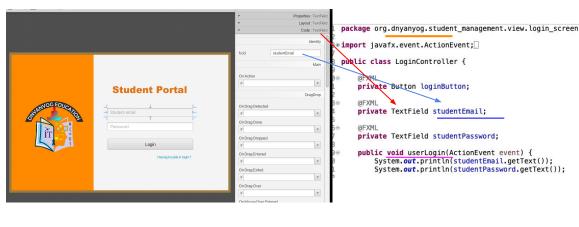
Load the fxml using JavaFx lib in to project

Declare FXML element objects in controller class

Define functions to perform on the event of those elements in controller class

Bind functions from controller class with UI element in fxml file

Launch the main/initial scene from main class



Add Product Assignment

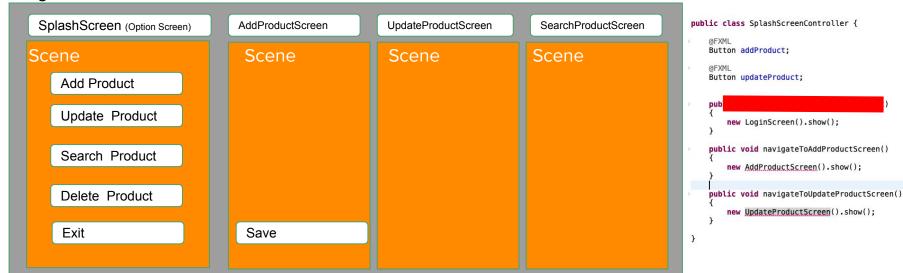




Add Product Assignment

```
Station Divinity
```

Stage





END