Java Programming

Arthur Hoskey, Ph.D. Farmingdale State College Computer Systems Department

JavaFX

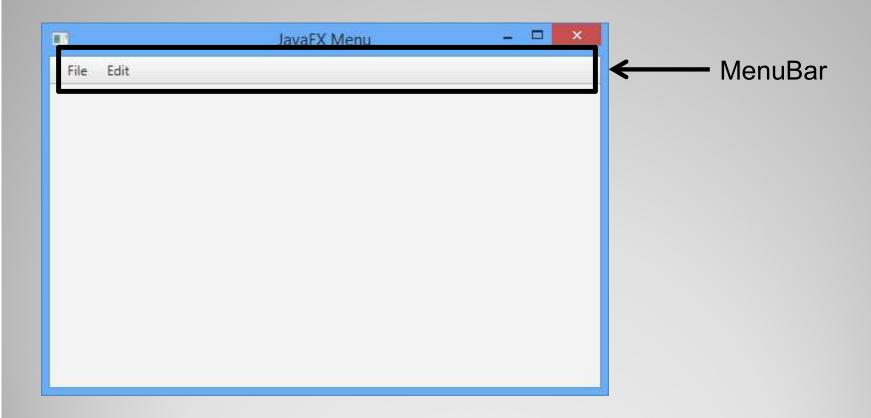
- Various control descriptions
 - MenuBar
 - Menu
 - MenuItem
 - SeparatorMenuItem
- Menu Item Event Handling

Today's Lecture

- You can create menus using JavaFX FXML
- MenuBar Goes across the top.
- Menu One set of choices (contains menu items)
- MenuItem The user chooses these. Actions happen when the user selects a menu item.
- SeparatorMenuItem Used to group menu items.

Menus

- Contains multiple Menu instances
- Should be placed at the top of the window



MenuBar

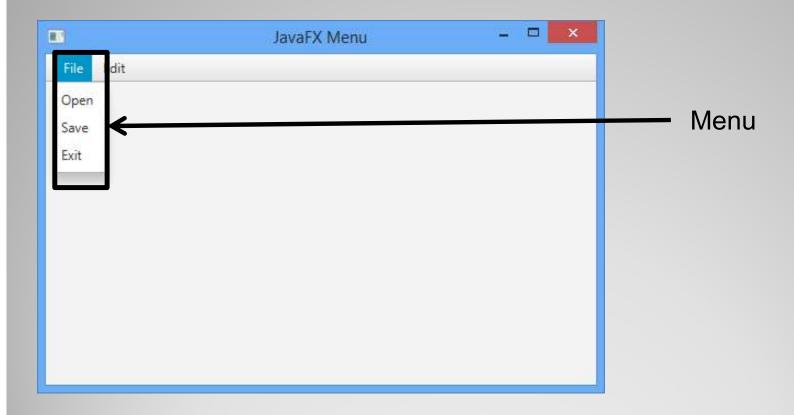
MenuBar

- FXML Import needed:
- <?import javafx.scene.control.MenuBar?>
- Control that contains menus.
- Java Declaration: MenuBar menuBar;
- FXML:

```
<MenuBar>
<menus>
menus go here...
</menus>
</MenuBar>
```

MenuBar

- Menu One set of menu items.
- A part of the menu bar.



Menu

Menu

- FXML Import needed:
- <?import javafx.scene.control.Menu?>
- Control that contains menu items.
- Java Declaration: Menu menu;
- FXML:

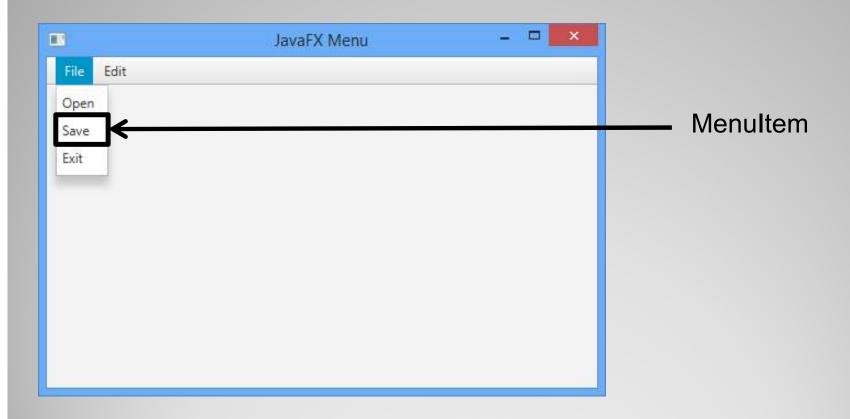
```
<Menu text="File">
<items>
```

menu items go here...

Menu name (text attribute)

</items>
</Menu>

- The user selects menu items.
- Actions happen when menu items are selected.



MenuItem

MenuItem

- FXML Import needed:
- <?import javafx.scene.control.MenuItem?>
- Control for one menu item.
- Java Declaration: MenuItem menuItem;
- FXML:

<MenuItem text="Exit"/>



MenuItem

FXML code:

```
<MenuItem fx:id="testMenuItem" text="Test" 
onAction="#handleTestMenuItemAction">
  other code goes here...
</MenuItem>
```

Put name of event handler method in onAction (must have # prefix)

MenuItem Event Handling

SeparatorMenuItem

- FXML Import needed:
- <?import javafx.scene.control.SeparatorMenuItem?>
- You can add separators (lines) to menus to divide menu items into groups.
- Java Declaration: SeparatorMenuItem sepMenuItem;
- <SeparatorMenuItem />

SeparatorMenuItem

 This sample FXML code shows the hierarchy of the menu bar, menu, and menu item.

```
<menus>
<menus >
<menus >
<menu text="File" >
<items >
<items >
<menuItem fx:id="exitMenuItem" text="Exit" onAction="#handleExitAction"/>
</items >
</menu>
</menus >
</menus >
</menus >
```

Menu Example

End of Slides Written by Arthur Hoskey, Ph.D.