

Media Player

Course: Object Oriented Analysis and Design (CSCI 5448)

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The Idea

- Create a media player
- Java
- Feature -> Enable plug-in type development



Demo

Adding module:

<http://screencast.com/t/es6ZmEjvq>

Creating a playlist, adding a media file, playing and stopping:

<http://screencast.com/t/DfMNgpYP>

Development

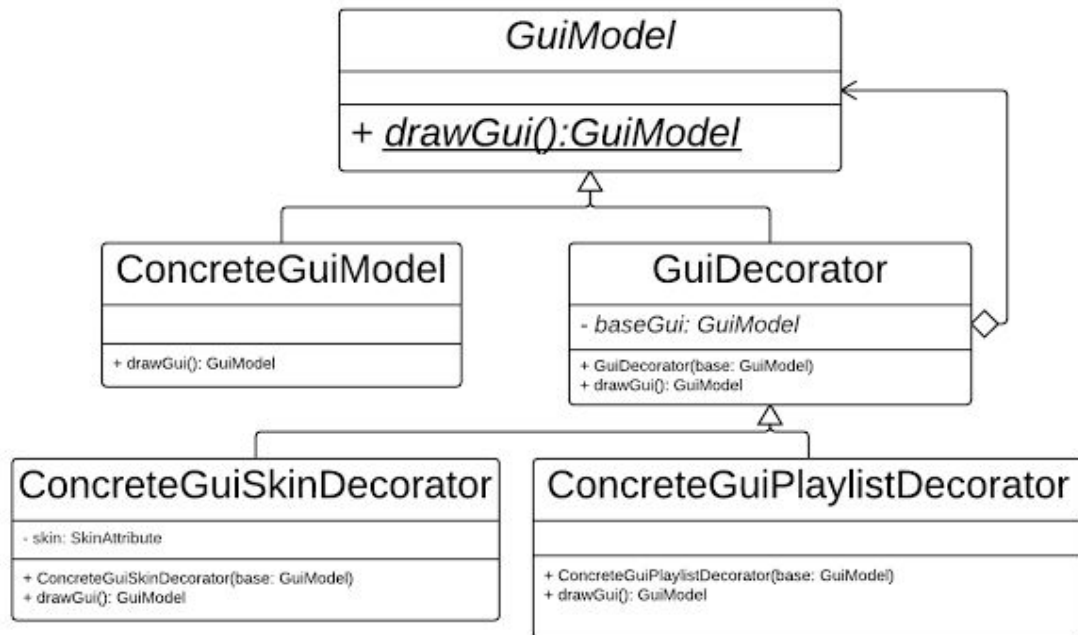
- Windows or Mac
- Java Development Kit 1.8x
- Swing
- VLCJ
- Netbeans

Initial Plan

- MVC
- Decorator for GUI and player logic
- Memento for save state
- Observer for user interaction

Design Patterns - Decorator

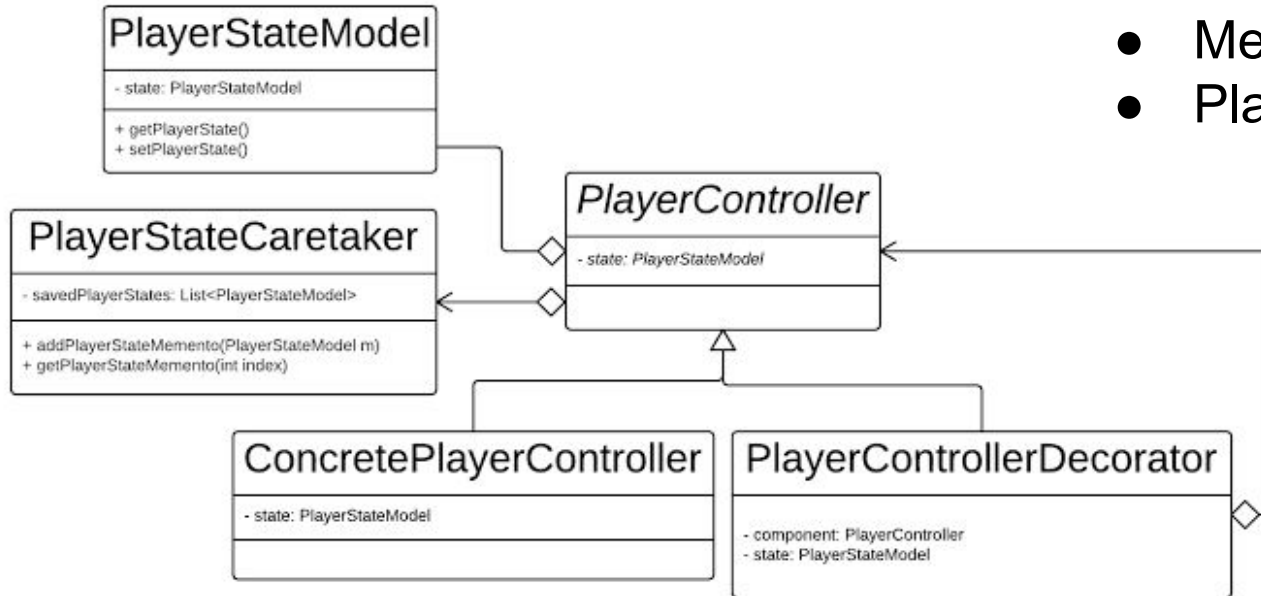
- GUI Model
- Add modules as decorators on the GUI
- Customizability



Design Patterns - Observer

- GuiModel
 - Decorated with JComponents (buttons, menus, panels, etc)
- EventMapper
 - Generalized to add all ActionListeners to Swing JComponents
 - Maps UI components to controllers

Design Pattern Changes



- Memento
- PlayerController Decorator