**SEQUENCE DIAGRAM:PLAY MEDIA FLOW**

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| --- |
| **CLIENT (USER)** |

**Run Lab2.main()**

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| --- |
| **Media App** |

**playMedia(mediaName)**

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| --- |
| **Source(Interface)** |

**connect(mediaName)**

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| --- |
| **LocalSource/StreamSource/APISource** |

**(print connection message)**

**After connection,user chooses renderer\***

**play(mediaName)**

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| --- |
| **AdvancedMediaPlayer** |

**renderer.render(mediaName)**

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| --- |
| **Renderer(HardwareRenderer / SoftwareRenderer** |

**(display rendering message)**

**SEQUENCE DIAGRAM:APPLY DECORATOR STACK**

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| --- |
| **CLIENT (USER)** |

**creates BaseMediaPlayer(fileName, renderer)**

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| --- |
| **BaseMediaPlayer** |

**wrapped with SubtitleDecorator**

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| --- |
| **SubtitleDecorator** |

**wrapped with EqualizerDecorator**

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| --- |
| **EqualizerDecorator** |

**wrapped with WatermarkDecorator**

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| --- |
| **WatermarkDecorator** |

**play()**

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| --- |
| **WatermarkDecorator.play()** |

**EqualizerDecorator.play()**

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| --- |
| **EqualizerDecorator.play()** |

**SubtitleDecorator.play()**

|  |
| --- |
| **SubtitleDecorator.play()** |

**BaseMediaPlayer.play()**

|  |
| --- |
| **BaseMediaPlayer** |

**renderer.render(fileName)**

|  |
| --- |
| **Renderer** |

**(renders output)**

**SubtitleDecorator adds subtitles**

**EqualizerDecorator adds equalizer**

**WatermarkDecorator adds watermark**