## Stage 1 – Library Management

This stage will mainly include getting the basic GUI layout ready and creating the library section so that the user can see what music they have stored on the computer

## Design

| Algorithms            |             |  |  |  |
|-----------------------|-------------|--|--|--|
| Algorithm             | Explanation |  |  |  |
| Play/Pause button:    |             |  |  |  |
| Button = "Paused"     |             |  |  |  |
| Checked = False       |             |  |  |  |
| If button is clicked: |             |  |  |  |
| If checked = True     |             |  |  |  |
| Button = "Playing"    |             |  |  |  |
| Else                  |             |  |  |  |
| Button = "Paused"     |             |  |  |  |
|                       |             |  |  |  |
| Checked = False       |             |  |  |  |
|                       |             |  |  |  |
|                       |             |  |  |  |
|                       |             |  |  |  |
|                       |             |  |  |  |

| Data Dictionary |      |             |  |  |  |
|-----------------|------|-------------|--|--|--|
| Variable        | Type | Explanation |  |  |  |
|                 |      |             |  |  |  |
|                 |      |             |  |  |  |
|                 |      |             |  |  |  |
| Class Diagrams  |      |             |  |  |  |
|                 |      |             |  |  |  |

| Develop    |                           |  |
|------------|---------------------------|--|
| Screenshot | Explanation/Justification |  |

```
Prom Pysides (triagets import (Application, Charletton, Challetton, Challetton
```

MainWindow class will have other widgets included in it.

Decided to use OOP classes for each of the main widgets as this allows me to separate out the variables they use (encapsulation) and makes it easy to add new widgets in the future, by just creating a new class.

```
class MainWindow(QMainWindow):
    def __init__(self):
        super().__init__()
        self.setWindowTitle("Music Player")

    main_layout = QHBoxLayout() # main layout w
    left_pane = LeftPane()
        right_pane = NowPlaying()

    main_layout.addWidget(left_pane)
    main_layout.addWidget(right_pane)

widget = QWidget()
    widget.setLayout(main_layout)
    self.setCentralWidget(widget)
```

Using a horizontal layout (QHBoxLayout) allows for the two panes, where each individual pane will contain nested widgets.

| Test             |  |          |  |  |  |  |
|------------------|--|----------|--|--|--|--|
| Test Description |  | Evidence |  |  |  |  |
|                  |  |          |  |  |  |  |
|                  |  |          |  |  |  |  |
|                  |  |          |  |  |  |  |

|  | Review |  |  |
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