**Design Document**

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**Introduction**

Do you have a hard time keeping track of your slice files for your 3D printer? Slice Tracker can help you:

* Organize your slices
* Keep track of the time each one will take to print
* Keep track of how much material will be used by each print
* Keep track of how much material you have left
* Send prints to your printer via octoprint (?)

**Functional Requirement #1**

**As a** : User

**I want** : To add or edit files to print

**Given** : A list of existing to edit or option to create new file to print

**When** : I create new files to slice

**Then** : I can save the file’s information for tracking

**Functional Requirement #2**

**As a** : User

**I want** : To add or edit Printers

**Given** : The ability to create a new or edit an existing printer to a list

**When** : I add new printers to the list

**Then** : I can save the printer’s information

**Functional Requirement #3**

**As a** : User

**I want** : To add or edit resins/filaments

**Given** : A list of resins/filaments to edit or being able to add new

**When** : I create new resins/filaments to add

**Then** : I can save the resin/filaments’s information

**Functional Requirement #4**

**As a** : User

**I want** : To view a summary of the files that I have saved with a break down of the amount of time to print, how much material it will take, and how much it will cost overall.

**Given** :

**When** : I click the button to view

**Then** : I see a summary of all files that have been input so far

**Functional Requirement #5**

**As a** : User

**I want** : The ability to search for files and printers based on the terms entered for each. (Artist, brand, printer type, printer)

**Given** :

**When** : I click the button to view

**Then** : I see the files based on the search terms