**CRC Card Design for Final Project - Team 17**

Team Members: Brie Daley, Shiao X. Wu, Kai Kleinbard

**Class: Thesaurus**

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| Responsibilities:  Reads in text file.  Formats text.  Stores key words in ArrayList.  Stores synonyms in ArrayList.  Stores antonyms in ArrayList.  Has getters for three ArrayLists.  Creates Hashmap of key words and synonyms.  Creates Hashmap of key words and antonyms. | Collaborators:  N/A |

**Class: ThemeSelector**

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| Responsibilities:  Initializes scanner console for user input.  Prompts user for theme key word or phrase.  Checks synonymList HashMap in thesaurus for presence of keyword.  Gets synonym values for keyword. | Collaborators:  Thesaurus |

**Class: API**

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| Responsibilities:  Store information for each API. | Collaborators:  N/A |

**Class: APIReader**

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| Responsibilities:  Connect to APIs.  Read lyrics API databases.  Find lyrics of a song.  Read books API databases. | Collaborators:  API |

**Class: APIRunner**

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| Responsibilities:  Based on user input, looks for key word and synonym instances in API databases.  Print song titles, artists, song urls, and artists urls from lyrics API.  Print actual lyrics from API.  Print book titles, authors, books urls, and author urls from books API. | Collaborators:  Thesaurus  API  APIReader |

**Class: PassafeFinderInterface AKA “GUI”**

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| Responsibilities:  Provides graphic user interface experience.  Selector for database, or user input text to analyze  Allows user to input their theme of choice | Collaborators:  ThemeSelector  API  TextAnalyzer  ThemeMatcher |

**Class: FileReader**

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| Responsibilities:  Allows user to select a file from their computer opening the file manager. Reads in the file into a readable textFile if its not already a textFile | Collaborators:  Thesaurus  GUI |

**Class: Website Scraper**

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| Responsibilities:  Gathers passages from websites [such as geniuslyrics] and then reads it into a textFile | Collaborators:  Thesaurus  GUI |

**Class: ThemeRunner**

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| Responsibilities:  Runs flow of program. | Collaborators:  Thesaurus  API  TextAnalyzer  GUI  ThemeMatcher |