Multifaceted Dictionary

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Overview

A dictionary application that allows users to track words that they are interested in.

Implemented Features

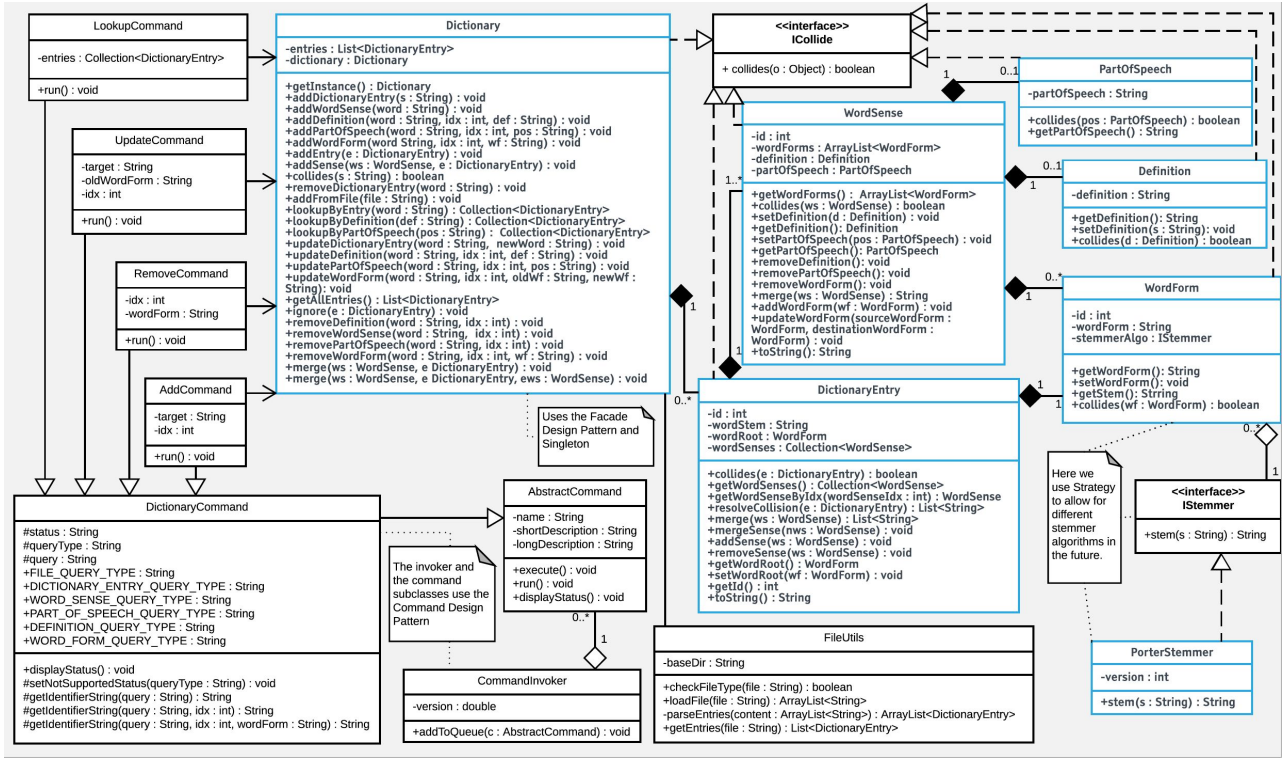
- User can add an Entry.
- User can add a Word Sense to an Entry.
- User can add a Definition to a Word Sense.
- User can add a Word Form to a Word Sense.
- User can add a Part of Speech to a Word Sense.
- User can add entries in batch from a file.
- User can update an Entry word spelling.
- User can update a Word Form spelling.
- User can update a Definition.
- User can update a Part of Speech.
- User can lookup Entries by word.
- User can lookup Entries by Definition.
- User can lookup Entries by Part of Speech.
- User can remove an Entry.
- User can remove a Word Sense.
- User can remove a Part of Speech.
- User can remove a Definition.
- User can remove a Word Form.

Demo

Demo ran from our demo driver:

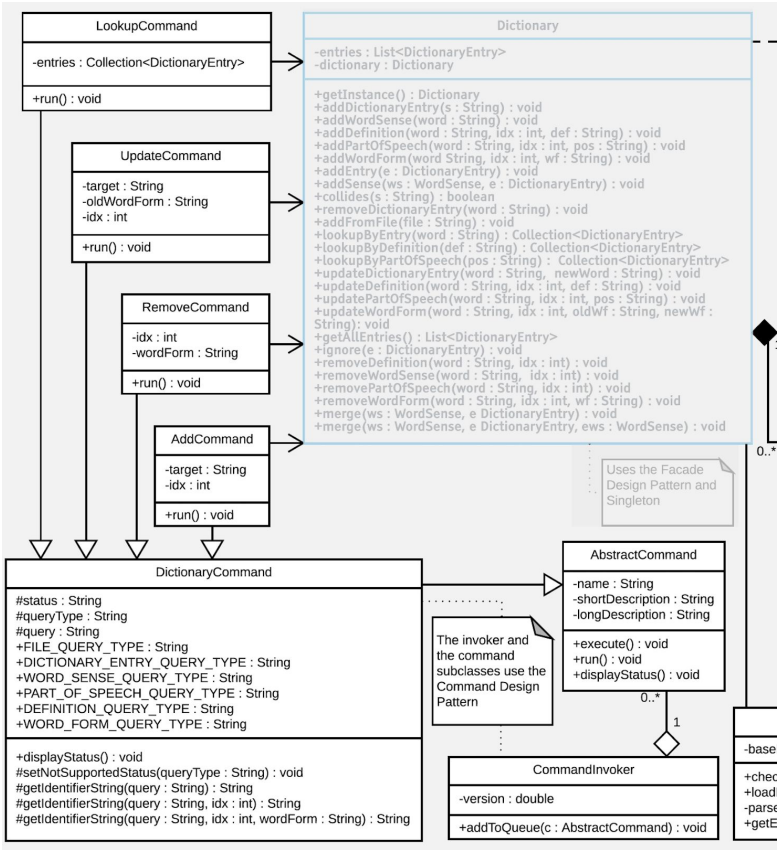
https://github.com/hunter-/dictionary/blob/master/37_MultifacetedDictionary_Video.mov

Overview of Design



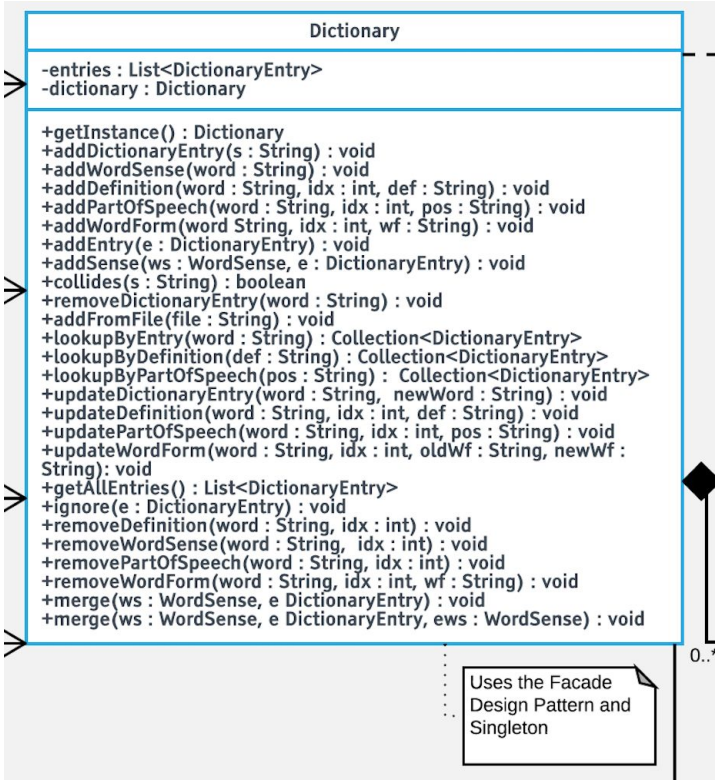
Command Design Pattern

- Separates view and data access



Facade Controller Pattern

- The dictionary class serves as a simplified, unified, interface for the rest of the components of the system.
- This also adds a layer of abstraction over each method of each subclass that is combined in order to use a single feature.



Thank You!