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Section: 16185

EE422C

**Assignment 4: Word Ladder**

**Analysis**

Implement WordLadderSolver class, which finds sequence of distinct English words such that any two consecutive words in the sequence is differ by changing one letter at a time. Solver method should take two inputs and one should be the start of the sequence and other should be the end of the sequence. Both inputs needs to be a 5-letter words that are in given dictionary. Note that it is possible to not find any word ladder from one end to the other.

**Design**

**IPO**

**Use Case**

**UML**

**Functional Block Diagram**

**Pseudo Code**

**A paragraph describing the rationale behind your design. This would include:  
a) How does your OOD reflect the interaction and behavior of the real-world objects that it models  
b) What alternatives did you consider? What were the advantages/disadvantages of each alternative both from a programming perspective and a user perspective?  
c) What are some expansions or possible flexibilities that your design offers for future enhancements?  
d) How does your design adhere to principles of good design: OOD, cohesion, coupling, info hiding,  
etc?**