## Class Diagrams

[PlantUML link](//www.plantuml.com/plantuml/png/RPB1JiCm44Jl_OezfYByG4ujL08kFHH43mXLRhA0XMD7kqu08VuTRumJMU4MpNZVZYVUi5Va-zQiLhLHp71qrC3t2k0IJX_X-y7jo7LG0NlIzZKQcczrqw2juEoS2Th5E5VC0-by2VdPzNWuA5YiAnYSRaRXW0CgaqbtVtCYJbjkq1zb1txweATCFody0L-GqDOORo1pxoUhMipYrs-gyqWLQEj7OK1Yv0gCPlyKn6VPDSEA1QRC6EKIi4vf9qWUETbNWRmFuALp7HVi-_QC97R09kzHraM7nPhMpatSrwGxtrDgWbAEh0aVGcM2_C1q3oawDZ71YWMcp1Zb4X2Rs6dkZFfAeFpdoskGivofSa_D-cmmJVtNuPPmQymudJyNgMA3jf6d_Gi0)

A screenshot of a computer program

Description automatically generated

## Review Program Specifications

Objective: Show the scripture and slowly remove pieces to help the user memorize the verse.

Input: Exit or enter

Output: Reference to scripture and updated scripture with words removed

Program ends: User types exit or all words are gone

## Determine the Classes

* Scripture
  + Keeps track of the text of the scripture and the reference, and hides the words chosen by the word class.
* Reference
  + Stores the Book, Chapter, and Verse.
* Word
  + Tracks a word from the scripture and whether it should be hidden.

## Define Class Behaviors

* Scripture
  + - reference: string
  + - text: string
  + - words: list[Word]
* Reference
  + - book\_name: string
  + - chapter: int
  + - verses: list[int]
* Word
  + - \_wordToDrop : string
  + - \_isHidden: bool

## Define Class Attributes

* Scripture
  + - reference: string
  + - text: string
  + - words: list[Word]
* Reference
  + + GetReferenceText(): string
  + + GetBookName(): string
  + + GetChapterNumber(): int
  + + GetVerseNumbers(): int
* Word
  + \_wordToDrop : string
  + - \_isHidden: bool

### Constructors

* Scripture:
  + Public Scripture(reference: string, text: string, words: list[Word])
* Reference:
  + Public Reference(book\_name: string, chapter: int, verses: list[int])
* Word:
  + Public Word(wordToDrop: string, isHidden: bool)

## Notes from the meeting

\* Scripture

\* Parameters: Reference

\* List(words in the scripture)

 \* String(variable)

\* Updated Scripture

\* Constructor: call words to get random word before constructing scripture

\* Reference

\* At least 2 parameters

\* Constructors: Public reference

\* Parameter 1: Book

\* Type: String

\*Parameter 2: Chapter

\* Type: Int

\* Parameter 3: Verse Start

\* Type: Int

\* Parameter 4: Verse End - Int

\* Word

\* Constructors: drop\_word

\* Parameter: Scripture

\* Type: List of each word

\* Parameter: drop\_word

\* Type: String

\* In order for a drop\_word to not be called again, write the program to pull from the updated\_scripture.