

## CPS 301: STRUCTURED/OBJECT-ORIENTED PROGRAMMING

### TOPIC: WORDS COUNTER APPLICATION SOFTWARE

Group name: The Alphas.

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Features of the Application:

- Word count - Counts total words in a document
- Character count - Counts total characters
- Page count - For PDFs and multi-page docs
- Line count
- Paragraph count
- Average words per sentence
- Average sentence length
- Word frequency analysis - Finds most used words
- Reading time estimate based on word count
- Handling multiple document formats (PDF, DOC, DOCX, TXT, RTF) using Apache POI library
- User-friendly GUI using Java Swing
- File browser for opening documents
- Copy/paste text input
- Save results to text file
- Print results
- Implemented in Java using String processing, I/O streams, GUI components