

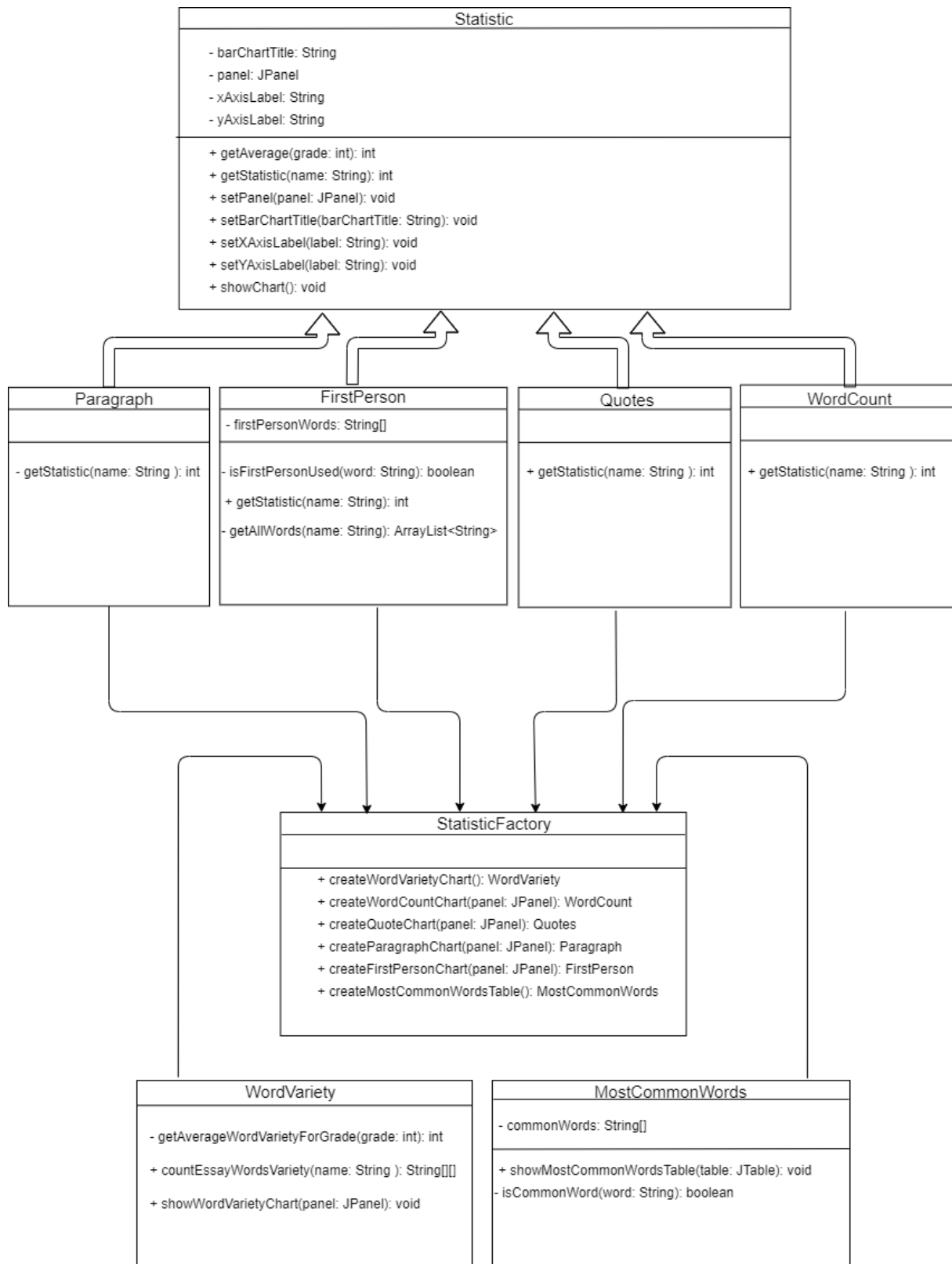
CRITERION B: DESIGN

The program loads in word documents as instances of the essay class;

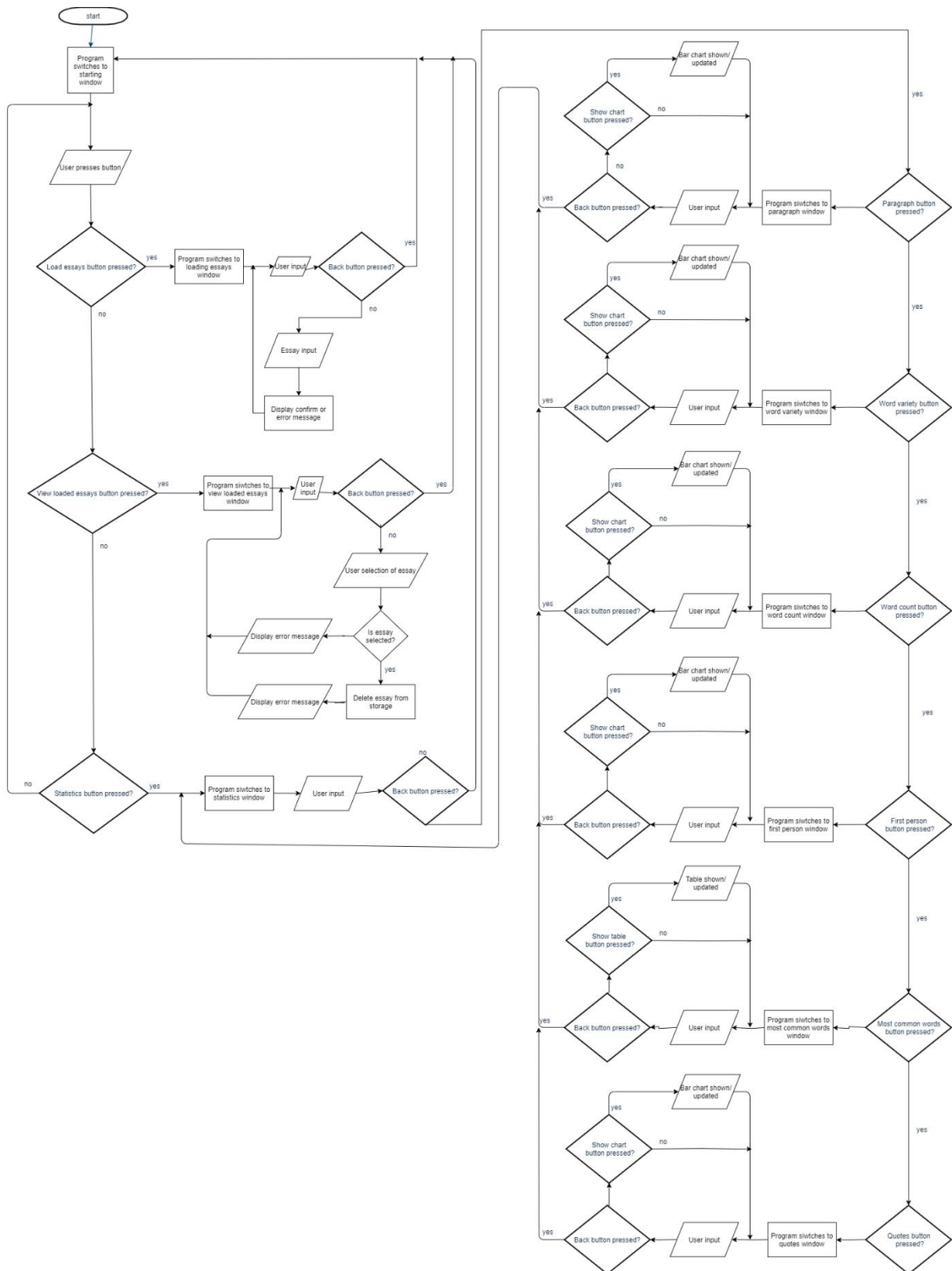
Essay
<div>- name: String</div> <div>- grade: int</div> <div>- numOfParagraphs: int</div>
<div>- StoreEssay(essay: String, essayName: String): void</div> <div>+ StoreEssay(essay: String, essayName: String, essayGrade: String, essaysLoadIF: JInternalFrame, numOfParagraphs: int): void</div> <div>+ setName(): void</div> <div>+ setGrade(): void</div> <div>+ setNumOfParagraphs(): void</div> <div>+ SaveEssayNames(): void</div> <div>+ SaveEssayGrades(): void</div> <div>+ SaveEssayNumOfParagraphs(): void</div> <div>+ getName(): String</div> <div>+ getGrade(): int</div> <div>+ getNumOfParagraphs(): int</div> <div>+ AddStoredToEssays(): void</div> <div>+ RemoveEssay(): void</div> <div>+ getIndexOfEssay(): int</div>

The UML diagram below is for the data model, which is generated from instances of the essay class.

UML



PROCESS DESCRIPTION



UI SKETCHES

The sketch below was first presented to the client. After user feedback a textbox containing a part of the essay to be uploaded was added.

A hand-drawn UI sketch of a form. The form is enclosed in a rounded rectangle. At the top left, there is a button labeled "BACK". In the center, there is a button labeled "SELECT WORD FILE". Below this, there are two input fields. The first input field is preceded by the text "PLEASE ENTER THE ESSAY NAME". The second input field is preceded by the text "THE GRADE OF THE ESSAY".



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BACK

SELECT WORD FILE

PLEASE ENTER THE ESSAY NAME

THE GRADE OF THE ESSAY

TEXT...

PROGRAM NAME

LOAD ESSAYS

VIEW LOADED ESS

STATISTICS

BACK

ESSAY 1

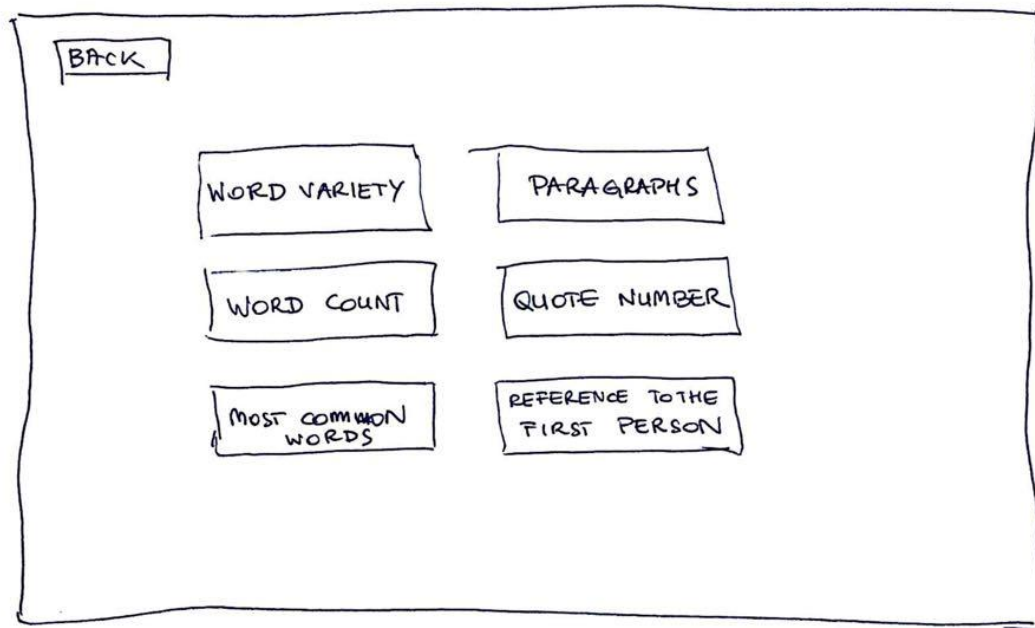
ESSAY 2

ESSAY 3

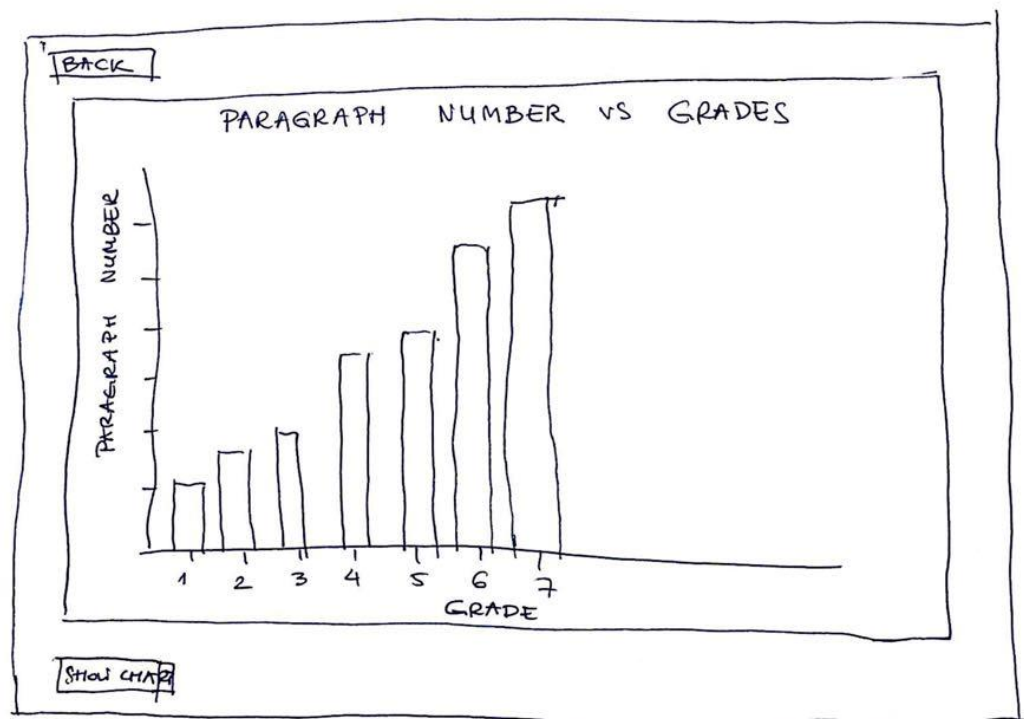
DELETE ESSAY

BACK

SHOW CHART



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BACK

1	2	3	4	5	6	7
MORE	BEST	ALWAYS	DIGIT	UNUSUAL	FASCINATING	SOPHISTICATED

SHOW TABLE

BACK

SELECT WORD FILE

PLEASE ENTER THE ESSAY NAME
 THE GRADE OF THE ESSAY

TEXT...

MESSAGE
 PLEASE FILL ALL REQUIRED FIELDS

TEST PLAN

Action test	Way of testing and results	Expected result
1. The program needs to be able to load essays from .docx files	Load a sample docx file check if it can be viewed in the “view loaded essays” menu	File is visible in the “view loaded essays menu” with its given name
2. Each essay added must be associated with a name and grade.	If only one file is uploaded, statistics should be displayed for that entered grade and the name of the essay should be visible in the view loaded essays window	Essay name is visible in the view loaded essays window and the statistics appear for the entered grade
3. The program must analyze documents and calculate the required statistics.	Each statistic is displayed by program is verified, using 2 sample docx files for which statistics are known	Statistics are correct
4. Correct statistics need to be outputted by the program in the form of a bar chart.	Check if individual statistics are outputted in the form of a bar chart	Bar chart is visible
5. The program needs persistence so that data added is retained when the program is restarted.	After restarting the program, check the “view loaded essays” window	Essay names can still be viewed in “view loaded essays” window
6. The program can be operated quickly and with minimal keyboard use.	Is correct if it was easy for user to navigate while testing other points, not using the keyboard much	it was easy for user to navigate while testing other points, not using the keyboard much
7. It must be possible to view the list of all loaded documents.	Go to view loaded essays and see if the names of the loaded essays are visible	Names of essays are visible

<p>8. It is possible to view the table of most common words omitting simple words such as: I, the, you etc.</p>	<p>Go to most common words in statistics and see if data is displayed omitting simple words, correct and in a table</p>	<p>Data is displayed omitting simple words, correct and in a table</p>