

restrict access  
using htaccess

multiple documents (batch file submission)  
- ZIP  
- or ~~java~~ command line

### 3.6 Uploading Document

This application will have a feature to upload documents and to check whether the document is in a readable format or not i.e. .doc, .txt, or pdf. This feature is marked as a high level priority.

It can limit the types to

#### 3.6.1 Functional Requirements

.java & .cpp  
or any text file

The user will be able to choose which file they'd like to import and upload to the web application. If the document format is not applicable then it will return a error message saying that the format type is not supported with this application.

### 3.7 Feedback

This application will be able to send feedback to the student after uploading and submitting their code to be checked. This feature is marked as a medium level priority.

user (will only be accessible by faculty)

#### 3.7.1 Functional Requirements

The feedback of the submitted code will be a percentage of how much of the submitted program was detected as being plagiarised. If the given percent surpasses the minimum requirement, then the student's code is valid.

for batch processing, extract student name from code comments

### 3.8 Archive

This application will contain an archive of all submitted assignments within the recent years. This feature is marked as a ~~low~~ level priority.

high

#### 3.8.1 Functional Requirements

The archive will have organized files from years past that are easily accessible. The submitted programs will be checked against the archive database to ensure no plagiarism is occurring with previous students code.

## 4. OTHER NONFUNCTIONAL REQUIREMENTS

### 4.1 Performance Requirements

### 4.2 Safety Requirements

### 4.3 Security Requirements

### 3.2 Comparing Code

*consider open source ~~the~~ tools to help with this - e.g. NOSS or JPLAG careful with licensing!*

The similarities of submitted assignments will be detected by comparing parts of the code with other submitted codes within the database. The feature is marked as a high level priority.

#### 3.2.1 Functional Requirements

The similar codes should be highlighted to acknowledge which parts were too similar or identical. If the compared codes don't have any similarities, then it has successfully passed the checker.

### 3.3 Programming Languages

This application can validate various types of programming languages and not only applicable to Java and C++. This feature is marked as a low level priority.

#### 3.3.1 Functional Requirements

TBD

### 3.4 Syntax

The application will check if the code only contains common syntaxes or similarities in small simple code and if so, the user will be notified. This feature is marked as a low level priority.

#### 3.4.1 Functional Requirements

TBD

### 3.5 Memory

This application will contain a back-end design to free up available memory space for later use in the future. This feature is a medium level priority.

#### 3.5.1 Functional Requirements

TBD