

NFR

- Uploader must run on MacOS and Windows.
- Uploader and Server must be Java based.
- Server must interface with SIUE Authentication server.
- The entire application must follow FERPA requirements
- Server must use a secure MariaDB installation
- Server must be viewable and usable on a phone.
- Uploader must process documents in parallel
- Uploader must not run out of memory (limit the amount of pdfs in memory)
- The uploader must prevent TA users from creating tests.

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- Uploader must be able to read a qr code from the top of a scanned sheet.
- Uploader must generate a sheet of qr codes based off of a list of tests and a list of students.
- Server must present tests as a pdf document to students.
- Uploader must generate the sheet of qr codes when a student is inputted into a class.
- Server must archive old tests when a semester ends, so when the Professor hits file export in the uploader it gives them the archive.
- When the student logs into the server, the server must present them a list of all the files that have been handed back for their class.
- The uploader must allow the professor to create new assignments at any time.
- The server must allow students to log in to view their tests.
- The uploader must allow professors to email their class when the pdf files are uploaded.
- The uploader must allow professors to create new classes at any time.
- The uploader must interface with the server to allow professors to log in.
- The uploader must order pages of a test if they are not put in the correct order.
- The uploader must orientate tests that are not oriented correctly (i.e. if the test is horizontal when it must be vertical).
- If the uploader cannot read a qr code it must display a useful error message on the image that errored out without halting the rest of the qr codes.
- The uploader must have an option to store the processed pdf documents locally
- The uploader must allow for a “dummy” QR code for temporary usage by students who forget their QR code so that their assignments can be turned in.