**WKU Advising Website**

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We are going to create a website that takes WKU students’ unofficial transcript, how many hours the student is comfortable taking, and pulls from a database with information on available majors and minors with the classes that are needed to graduate to let them know what classes they should take next semester based on what is available and what their majors/minors are. We will also have to consider students who may have more than one major or minor as part of their degree. In order to read a student’s unofficial transcript, we will need a form parser to parse the document for the student’s majors/minors and what courses they have taken. It will then need to visit the WKU website and parse the colonnade requirements and the requirements to obtain a bachelor's degree in their majors/minors and then find the classes that they are eligible for and are offered the upcoming semester. The information about these classes and majors/minors will be added to a SQL/MySQL database to establish an easy way for the website to pull necessary data to give the student a reasonable schedule recommendation. The website will display the schedule for the student to view, as well as offer an option for the student to download a pdf version of the schedule. One last major feature of our website will be a simple messaging system through a network. Advisors and students will be able to communicate about the proposed schedule and make notes as needed. This will all be built in python and put into a website using Django and Apache, with the visual formatting of the website using HTML, CSS, and JavaScript. We will also use Bootstrap to help expedite the process of creating the necessary HTML, CSS, and JavaScript as well as add features like a navigation bar. We will also be using the [Llama Parse](https://docs.llamaindex.ai/en/stable/llama_cloud/llama_parse/) website to help us parse the unofficial transcript and WKU’s website with requirements and prerequisites. The website will have the same color scheme as WKU, primarily red with accents of white and black.

Possible additional features, if time allows, to implement may be upcoming deadline alerts and save features. Changes to how the website obtains data about certain majors may change depending on the capabilities of parsers and their ability to read data from the WKU website. May use a database that we will manually insert data into that the website will pull from to give a schedule for the upcoming semester to the student. We also may add features to add plans for master’s degrees and doctorates, depending on how difficult it would be to add said features.