**Project Title: TBA**

CMPS 4910 Senior Project I

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**1 EXECUTIVE SUMMARY**

ProjectName is a web-embedded user interface for a university registrar to more clearly display a student’s progress toward completing their degree. This is similar to existing software like DegreeWorks, but it is not currently in use by CSUB, making it very difficult for a student to determine what courses are necessary to complete their goals in a timely fashion. Unlike DegreeWorks, which is closed source and sold as a service to universities, we plan for this to be Free and Open Source Software for any campus to use.

The team consists of Shadi Abdul Razzak, Haylee Allen, Justin Ulloa, and Tristan Bock, all students with senior standing at the California State University, Bakersfield. *\* Individual Descriptions here \** Tristan has several years of prior experience using DegreeWorks and is excited to help his fellows develop a solid competitor. He has prior experience working on a senior project at the University of California, Irvine, and plans to leverage that experience working with an even larger group here. Haylee has been working on front-end organization/design as of late and hopes to utilize her expanding knowledge to contribute to making the application’s envisioned design come to life. She is also currently enrolled in CMPS 3420 (Database Systems) and hopes to use what is learned via that class to assist in the database portion of the project.

**2 INTRODUCTION**

**2.1 Target Market**

There are thousands upon thousands of students admitted to universities annually across the country, and not every school uses or can afford to use DegreeWorks or equivalent closed-source packages for their registrars. (citation) Due to this, students are offered with either an ineffective program or sometimes no program at all to efficiently help them track their degree progress. This is an issue because often times students do not have an efficient way to check their progression through their degree. Common issues are distinguishing between overlapping courses, such as ones that are required for a major but can also be considered as an elective for a major. Some programs offered to students are so outdated that they will show required courses as satisfying elective requirements, software as such only confuses the student.

**2.2 Competitors**

There are a few preliminary things to note when it comes to competitors. The first thing to note is that open-source programs with a similar concept vary from university to university. Quite a few universities use their own programs which can be tricky for comparison if not enrolled in that particular university. The main edge our project plans to have over other similar programs is cost. We intend for our program to be free and accessible to everyone. With other programs they more than likely not are being paid for via the attending university. The thing is though, these programs are usually made inaccessible upon leaving the university or you have to wait till enrollment before you can access the features the program has to offer. This is not helpful for incoming students who want to get a gist of what is required of their selected degree program. With our goal to have a free program that is accessible to all, students would be able to see what coursework is required for their specific degree at universities before enrolling. They’d also be able to use this throughout the duration of their studies to keep track of what classes they’ve completed and how many courses and or units they need left to complete their degree. (Potentially will add citations/more information here).

**3 FUNCTIONAL REQUIREMENTS AND DESIGN**

There will be two primary components to this application: the database querying back-end that pulls a student’s records and the school’s catalog, and the presentation front-end that displays the information in a clear, concise way...