Liberty University DCP Tracker

# **Description**

As a student at Liberty University I find that planning is a huge part of success. Not just spiritually but academically. My goal in this research project is that every student at Liberty University has a clear plan of their degree throughout their whole college career. Even seemingly well thought out plans can crumble under the pressure of life. Whether that be a class that you just can’t seem to grasp, a job that you want to maintain while being a student or even being called to missionary work for a semester or longer; every student should be able to see an obstacle in front of them and react to it with a plan.

This guide is intended to serve as a cornerstone for a new system for student academic planning. I will go over the three major mil­­­­estones in this project and their specific uses and capabilities.

# **3 Major Milestones**

DCP Information Retrieval

DCP Tracker Mobile App & Website

DCP Administrator Center

# **DCP Information Retrieval**

Implementation

This milestone consists of retrieving all Degree Completion Plan (DCP) information. This milestone will take a few months depending on the current organization of information. If the current information is stored in a database, then this process will shorten considerably. However, if the information is not stored in a well-organized database then this could take a few months, requiring the manual input of each DCP for each year along with all its information.

# **DCP Tracker Mobile App & Website**

Implementation & Capabilities

After information retrieval, the construction of the mobile app & website will begin. This will be the platform in which the student will use. The student will be able to log in to the app or website using their Liberty University login and navigate their way through their degree with insight. This enables students to see all possibilities and gateways for their own degree by keeping track of the classes taken. The app & website are planned to go through 4 to 5 months of development. As far as programming specifics, React and React Native frameworks will be used for all the logic and inner workings of the application & website. Using this, the following capabilities will be implemented:

**Degree Specific Information**

* Auto-Fill My Degree
* Class Fulfillment when changing majors (Provided with a request form)
* Class Fulfillment when changing minors (Provided with a request form)
* Transferrable Credits through Liberty
* Semester Boundedness status (what semesters it is offered)

**Class Specific Information**

* Minimum Grade Requirement
* Completed Classes
* Class name and Number; Credits
* List of prerequisites and co-requisites
* Semester Boundedness status along with Term Boundedness (what terms it is offered)
* Class Offerings (Residential/Online)

# **DCP Administrator Center**

Implementation & Capabilities

Following the student side of the project, the administrator side will give admins the ability to manipulate old DCPs or create the DCP for the following year. This will give a more organized and structured editing process. DCP Tracker Editing Center will be released three months after the initial app & website are published. The following are capabilities that are going to be implemented:

**Degree Specific Information**

* Add/Remove Courses
* Add/Remove Prerequisites
* Add/Remove Co-requisites
* Add/Remove list of accepted electives

**Class Specific Information**

* Add/Remove Prerequisites
* Add/Remove Corequisites
* Edit Course
  + Description
  + Credit
  + Number
  + Semester Boundedness
  + Minimum Grade Requirement
* Semester Boundedness status along with Term Boundedness

# **Conclusion**

What will it take to complete this project?

This project will require a lot of cooperation between the Liberty and myself, seeing as though the completion time rests on the ability to easily navigate through the collection of DCPs. To complete this project, I will need the following:

* Access to Liberty’s collection of DCPs
* Permission to use Liberty University Login as a gateway for students
* Permission to use a non-production test copy of Liberty’s database structure regarding courses
* Hourly wage appropriate for an incoming intern

With these elements, the project will be given the tools to run as smoothly as possible. This project has the potential to allow students to feel stress free even when unexpected changes occur. Giving the student the tools to success is the main goal of this project.

If there are any questions or concerns, feel free to contact me by phone at (704)-747-2203 or my email cbrysonedwards@liberty.edu. Thank you for your time and consideration.