Introduction:

The purpose of this document is to summarize the system requirements for the functions of the CCM Student Aid app. In this document, you will find a detailed summary of various function requirements in the Description Model section, along with diagrams outlining the utilities in the Class Diagram, Use Case, Use Case Scenarios, and Systems Sequence Charts sections. The Class Diagram will show all of the different objects to our app, their attributes, and known methods. The Use Case Diagram will review all of the uses of the system. The Use Case Scenarios will outline the possible activity events and any exception conditions. The Systems Sequence Charts will provide the sequence of the Use Case Scenarios.

Description Model:

1. Parking Lot Tracker
   1. The parking lot tracker is going to be used so students and staff will find a parking spot easier. Instead of driving in and out of the parking lots looking for any parking spot at all, the app would notify you what lot has vacancies within it. It would work with devices that would increment and decrement based on cars leaving the lot and manipulating the total number of spots available accordingly. This ties with the notifications part of the app because you can toggle times of day and certain days you would like to receive said notifications about parking.
2. Calendar
   1. The calendar is going to be used to display important information for the students and staff on a clear display. Encapsulating the student’s schedule, due dates for classes, and general information such as opening for registration or club meetings, etc. The calendar draws from Blackboard, Tian’s Direct, and the CCM website. Again tying into the notifications, you can toggle what you would want to be displayed within the calendar temporarily for ease of view and permanently as a consistent point to return to when the app is closed and reopened.
3. Map
   1. The map is going to be used for ease of finding things on campus. Removing the unknown of where certain buildings are, what is contained within said buildings, where parking lots are, or even the location of the professor’s offices. The map will draw from general information, displaying a professor’s office hours, contact info, as well as where their office is located.
4. General Information
   1. General Information will take information from CCM’s website and display it in an easy-to-view platform. A quick search at the top will find any information needed that would take a long time to dig for on the CCM website. General Information shares information with different functions of the app to display anything that could be perceived as useful information to a student or staff member.
5. Notifications
   1. The notifications function will be a very user-friendly interface used to streamline the way the app runs for each individual using it. The user can toggle the app experience and choose what they can view and toggle off what they don't want to view. Club meetings and sporting events can be toggled on and off, and parking lot tracker notifications can be completely shut off, always on or you can choose a time frame or frames on certain days by which you want to receive notifications about it.