Overview
One of CIMP-3D’s goals is to advance additive manufacturing technology. As 3D printing becomes more mainstream, more people are interested in it but may not know the costs associated with 3D printing an object. People may print something, only to find it takes much longer or costs more than it would take to buy it premade.

Objectives
This project aims to develop a prototype iOS app that will allow users to gain an estimate for build time and cost of 3D printing an object. Users should be able to load an STL file, see its preview, and obtain estimates for the cost and time required to print the object.

Approach
- Reference the existing Android prototype for design and features.
- Create user interface design mockups and prototypes, taking into account the Android design and iOS design paradigms.
- Research iPhone market share to determine which devices to optimize the app for.
- Test the app and get user feedback from two different user bases: experienced hobbyists in the 3D Printing Club and inexperienced freshmen in a EDSGN 100 class.
- Update the app design based on user feedback from the user testing.

Outcomes
- The app allows users to estimate build time and cost in seconds from anywhere as long as they have an iOS device and an internet connection.
- The user can preview STL files without needing a standard desktop or laptop computer.
- The app works on iOS 10 or newer and was tested on all iPhone sizes.
- STL files can be on the device or in a cloud storage solution, such as Dropbox, OneDrive, or iCloud Drive.