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CENG 355

Proposal

1. The name of our project will be the FourOneSix Sound.
2. The summary of the project that we will be putting together is to implement the use of our firebase database to be operating on our hardware. Our hardware is an audio amplifier that will be operating from the raspberry pi 3. The courses that are related to out project are Software project (CENG 319), hardware production tech (CENG 317) and Embedded Systems (CENG 252).
3. Our plan to implement the project is to ensure that the mobile application is working as it should then to ensure that the hardware (audio amplifier) is also operating as it should. The next step will be to figure out how to use the raspberry pi to read from the firebase database automatically. The project will me managed in a systematically way as the critical path will be used as a guide to implement all the steps in putting the project together.

1. In regards to the timeframe of completing the project, it seems very likely as out application needs to undergo a few alterations and the hardware aspect is basically finished. If there are any problems that arises we will be dedicated more time and effort to fix the problem and implement measures to reduce problems in the future.
2. There are few similar products in the market right now such as Spotify and Sound cloud but the difference with our app is that is tailored for the specified hardware.
3. For test cases so far, we can test that App streams the media from the database and use a hard connection from a mobile device to the amplifier to test that the amplifier is still working as it should.
4. In conclusion this project will be a 14-week long project that we will try to incorporate our previous software with the hardware to make a fully functional system that satisfies the need of real world problems.