

Project Proposal

Develop Software to Manage Restaurant Costs and Update Menu Prices on a Digital Menu

Client

David Aungst, Restaurant Tech Startup

Background:

As part of a new Restaurant Tech Startup, David Aungst is developing a new kind of digital menu for use in restaurants. In addition to the menu itself, the key aspect of this startup is software. The goal is to offer software which allows any restaurant to choose their ingredients from a database, input their costs for each ingredient, and then have the software calculate the prices for each item on the menu. At this point these prices will be pushed to a physical menu with a digital interface (similar to a tablet).

Project:

The goal of this project is to develop a basic version of the application that allows restaurants to more effectively manage their cost's and menu prices. This is preferred as a web application that will ultimately be able to sync with data on a "tablet" like menu, either via Bluetooth, WiFi, or USB. Other application formats can be entertained. If there is time a secondary goal of this project would be to develop the software that runs on the menu itself. Currently a prototype of the menu is being assembled with a Raspberry Pi. The primary elements of this project will include:

- Create a database of common ingredients used in a restaurant (the actual list of ingredients for the database can be provided)
- Develop a user interface to input costs, desired margins or pricing, and menu items and details. This is preferred as a web interface.
- Program back-end calculations for translating cost of ingredients to menu prices (we can help with this). This may include the ability to upload spreadsheets of a current costs.
- **IF TIME:** Develop basic software for use on the menu itself using a Raspberry Pie.

Overall we want to stress that much of this project is open ended in its execution. As long as the basic goal of the software is met, the methods/software used to develop the solution can be somewhat at the discretion of the students. That being said more structure can be provided if needed.

Student Requirements:

Team: 3-5 Students

Location: Anywhere

Skills (preferred but not required): Web development, experience with raspberry pi, database, spreadsheets

Student Benefits:

Students will get to work on a new and upcoming piece of technology. They will experience working on a real world project with real world impact and application. If the project goes well there may be an opportunity for an internship or more work with the startup company.

Non-Discloser Agreement:

The Students will be required to sign an Agreement that includes confidentiality provision.

Intellectual Property:

The Students will be required to sign an Agreement assigns all Intellectual Property rights in the project to David Aungst.