CSCI P445

Fall 2021

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**Feasibility Report**

1. **Product:** The goal of this project is to create a web application to manage the workshops for teaching AI technologies. The app will keep track of the workshops, the personnel attending the workshops, and the equipment being used.
2. **Technical Feasibility:** The application will be developed using Node.js, SQLite, and Angular as the web framework. The backend services will be written in Node.js with SQLite for database storage. The frontend services will be written using the Angular MVC framework.
3. **Social Feasibility:** The web application will be a workshop management program that will be very intuitive to use by anyone managing the workshops. Therefore, it should not require training. The documentation provided should be sufficient to support the user if they have any questions.
4. **Economic Feasibility:** The cost of this project should be very low. There won’t be any development costs. The only thing needed will be server space for the backend services and database. The benefits of this system will be the ease of keeping track of the personnel and equipment used during the workshops. It can also help prevent potential financial loss by keeping track of what personnel has checked out equipment.
5. **Market Research:** The focus target market for this product is the leader of the workshops that will be conducted to train AI technologies at Indiana University Southeast. It is being created for Dr. Hettiarachchi to help him manage the workshops. Once the school teachers have been trained, they could potentially use the software when teaching their students.
6. **Alternative Solution:** Possible alternative solutions to this software are to manually keep records in a notebook, to keep track of the records in a spreadsheet, or to use database software to manually build and update the records. All of those solutions would be more time consuming and be less efficient than this software.
7. **Project Risks:** The main risk of using this software would be server failure and loss of data. If the data wasn’t backed up, then the records could be lost, and the data would have to be recreated.