**CS2400 SRC Project Proposal**

**‘Centralized Management System’**

**Executive Summary**

This proposal outlines the development of a robust, centralized management system for the Lopez Urban Farm. The proposed system aims to streamline various tedious processes such as crop lifecycle tracking, task scheduling, reporting, and analytics. The implementation of this system will contribute to the farm's efficiency, productivity, and overall success.

**Project Background**

The Lopez Urban Farm exhibits all sorts of events and classes that emphasize educating the community on sustainable agriculture, distributing fresh produce district-wide, fostering community in green spaces, and more. It was also noted that staff organize many tasks on paper, risking subtle errors and disorganization. To enhance operations, there is a need for a centralized system that can efficiently manage the daily tasks of the farm, improving the quality of life for staff members.

**Solution Outline and Goals**

* ***Crop Lifecycle Management***
  + Track stock and expiration of different crops and produce to minimize food waste.
  + Track the predicted lifecycle of crops with their respective maintenance activities.
* ***Task Scheduling***
  + Scheduling system to efficiently plan and manage daily tasks like planting, harvesting, and maintenance, assigned to different staff.
* ***Reporting and Analytics***
  + Develop a system that can record inventory turnover rates, crop yields, resource availability, and other key performance indicators.
  + Offers a place for users to make data-driven decisions and strategically plan.
* ***User-Friendly Interface***
  + Design an intuitive and user-friendly interface accessible to all farm personnel.
  + Ensure ease of use for efficient data input and retrieval of information.

**Project Budget**

To garner additional credit and secure an A+ for the culmination of the semester.

**Conclusion**

The proposed management system will significantly contribute to the success of Lopez Urban Farm by optimizing tasks around the farm such as managing crop processes, tracking daily tasks, and reporting farm analytics. This implementation of this system will enhance overall efficiency and sustainability, aligning with the farm's commitment to education and sustainable farming practices.