I trust this message finds you well. As the leader of a final-year group research project scheduled for the upcoming semester, I am reaching out to inquire about the possibility of having you as our supervisor. My name is Gamlath W.A.V.K (IT21211928), and I am accompanied by my group members, Theekshana K.T (IT21280160), Bandara A.M.B.S (IT21229398), and Pathirana K.P.V (IT21244766).

After thorough consideration, we have identified a potential research topic. However, we remain receptive to your recommendations or preferences and are open to exploring alternative topics.

**Topic: Empowering Agriculture: Enhanced Web System for Smart Plantation and Farm Management**

Empowering Agriculture: Our proposed project focuses on developing an advanced web-based system tailored for smart plantation and farm management. This innovative platform is designed to streamline agricultural operations, optimize resource allocation, and boost productivity by enabling real-time data monitoring, analysis, and decision support. Through the integration of advanced technologies including IoT sensors, AI algorithms, and data analytics, our system aims to revolutionize conventional farming methods. Ultimately, it empowers farmers with actionable insights and efficient management tools, facilitating sustainable agricultural growth.

* **The Novelty that we selected,**

1. **Tailored Plant Recommendations:** Enhancing Farm Yield Through Personalized Crop Selection.
2. **Plant Care QR:** By scanning the QR code accompanying each plant, users unlock tailored guidance, Access personalized instructions based on plant’s age, factors influencing to plant health,
3. **Guide to plant:** When customer upload the plant photo, the system recognizes that plant disease and suggests the fertilizer and instructions.
4. **Collaborative Decision Support for Farmer Networks:** Provide services to farmers to collaborate, share data, and exchange insights within a community. This feature encourages collective problem-solving, knowledge sharing, and innovation among peers,