



<b>Project Title:</b>	Mobile Crops Disease Diagnosis System
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<b>Department:</b>	Computer Science

### **Project Description:**

Food is the most important element in human life. For some countries, they grow their own crops to support the demand of food supply. But for others, it is not only for the food supply, it is also for economic growth. Paddy is one of the most important crops worldwide and grown mainly in Asia. In humid and temperate climates, paddy disease can easily spread. This has caused the most serious problem for crop yield. Paddy disease usually attacks the leaves and panicles of the plant. As the result of the disease, the number of panicles and spikelet were reducing and decreasing the number grain-filling, grain-weight and starch content in the grains. For example, *Tungro* virus is one of the paddy diseases that had been transmitted by the green leafhopper and can cause and epidemic outbreak. As a result of the outbreak, there is a maximum production loss of up to 53 percent in a district and 23 percent in a state. Early detection of such diseases can help the farmer in preventing the disease from spreading.

The main goal in developing this system is to diagnose the paddy disease according to the symptoms that appear in the paddy plant. By preventing the disease in its early stage, this would control the spreading of it and production loss would be minimized.

Besides it being web-based, the system can also be accessed using the text message application through a mobile phone. The web and mobile applications will be evaluated in assessing the effectiveness of the system and technologies.