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**SMART GREENHOUSE WITH TEMPERATURE CONTROL SYSTEM,  
INTEGRATED HYDROPONICS AND AUTOMATIC IRRIGATION**

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**Project Description:**

This study endeavors to enhance the efficiency of smart greenhouses by integrating a temperature control system, hydroponics, and automated irrigation. Traditional greenhouse systems often suffer from inefficiencies such as manual intervention, inconsistent temperature regulation, and inefficient irrigation methods, leading to suboptimal plant growth and resource utilization. By investigating the impact of these integrated technologies on greenhouse efficiency, this research aims to provide valuable insights into maximizing plant growth, improving resource efficiency, and enhancing overall system performance in controlled environments. The study will focus on designing, implementing, and evaluating a smart greenhouse system, ultimately offering practical recommendations for enhancing plant cultivation practices.

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