



Cover page

Project title: ...Smart Plant Pot... Academic Year: ...2024/2025 Second Semester

Group Members:Aya Nassar...And Anwar Rawajbeh.....

Department Name: ...Computer Engineering.....

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Project Type : Hardware

Supervisor Name: ...Dr Luai Malhes.....

Format:

- Single space, Times New Roman.
- 12 pt,
- Maximum 1 page.

Abstract Body:

Items must be provided in the Abstract:

- Why do you think this project is important? Please explain the significance of this Project in brief.
- In your point of view what are the important aspects that should be covered in the project?
- Objective(s): In your view, please explain the main objectives of the project.
- Methodology: Give a brief outline of the application development process.
- Had this project been done before? Are there any similar applications available today?
- **Note:** Please deliver this abstract early to ensure that your Project has been approved by the department's projects committee. **Registration will not be done without this approval.**



Project's Abstract:

In an era where technology intertwines with nature, our project presents a paradigm shift in plant care through the creation of a Smart Plant Pot with Mobility and Advanced Monitoring Capabilities. This innovative design amalgamates the realms of engineering and horticulture, offering a holistic solution for urban gardening enthusiasts and novices alike.

Our Smart Plant Pot integrates an array of cutting-edge features to ensure optimal plant health and convenience. Equipped with autonomous mobility, the pot dynamically adjusts its position to harness sunlight or seek shade, enhancing photosynthesis and growth. Real-time environmental monitoring, encompassing soil moisture, pH levels, temperature, and humidity, empowers users with actionable insights into their plant's well-being. Furthermore, our system leverages mobile app integration, enabling users to remotely monitor, control, and customize their plant's environment with ease. Through intuitive controls and insightful analytics, individuals can foster an ideal habitat for their green companions while fostering a deeper understanding of botany and sustainability. The pot's design transcends functionality, boasting customizable aesthetics and a user-centric interface. Interchangeable panels and LED lighting options personalize the pot's appearance, elevating it from a mere utility to a statement piece within any living space. Additionally, a built-in self-defense mechanism safeguards plants against potential threats, ensuring their uninterrupted growth journey. Integration with popular smart home ecosystems further enhances accessibility, enabling seamless interaction through voice commands and automation. In essence, our Smart Plant Pot transcends traditional gardening paradigms, embodying a harmonious blend of nature and technology. It not only nurtures plants but cultivates a deeper connection between individuals and their botanical companions, fostering a greener, more sustainable future.

