Sri Lanka Institute of Information Technology

PROJECT CHARTER

The purpose of this form is to allow 2nd year students of the B.Sc. (Hon) degree program to enlist in the 2nd year project group. The description of the project entered on this form will not be considered as the formal project proposal. It should however indicate the scope of the project and provide the main potential outcome.

PROJECT TITLE	Plant Caring System
GROUP NUMBER	PEP_19 (will be assigned by the lecture in charge)

PROJECT GROUP MEMBER DETAILS: (Please start with group leader's details)

	STUDENT NAME
1	Lakshan T.R
2	Devinda M.C.G
3	Rangana W.P.M
4	Rajapaksha K.V

PROJECT DETAILS

1. INTRODUCTION

1.1 Purpose of Project Charter:

The Plant Caring System project charter documents and tracks the necessary information required by the decision maker(s) to approve the project for funding. The project charter should include the needs, scope, justification, and resource commitment as well as the project's sponsor(s) decision to proceed or not to proceed with the project. It is created during the Initiating Phase of the project.

2. BRIEF DESCRIPTION OF YOUR PROJECT

2.1 Project description

Our product enables our urban customers to get their daily garnish herbs from their kitchens without much effort. we are expected to finish this project within 3 months and are estimated budget for the project is Rs 12000.00

2.2 Project objectives

Bringing mental relaxation and fresh plants as food ingredients to people who are living in houses that do not have the proper space and conditions that are needed to care for plants.

3. JUSTIFICATION

3.1 Business Need

According to our analysis, we recognize that it is difficult for people living in urban areas to maintain even the minimum number of plants required for cooking in a limited space, and they do not have time to take care of those plants despite the difficulty of obtaining fresh vegetables. Also, many people try to plant plants in their kitchen for mental relaxation, which takes up unnecessary space in the kitchen. Our product has a solution for that too.

3.2 Business Impact

Our plant caring system project yields several advantages. It enhances operational efficiency by automating maintenance tasks, reducing manual effort, and minimizing errors. Also, our commitment to environmental responsibility is reinforced as we optimize water usage and promote eco-friendly practices. Not only that a thriving indoor plant ecosystem positively influences customer satisfaction

4. SCOPE

4.1 Description of the Solution:

1. Automatically give the required amount of water to the plant when it needs water.
2. Being able to get data about the plant even from a remote station and control.
3. Display of data about the plant in the product itself when the app is not in use.

4.2 Main Expected Outcomes of the Project:

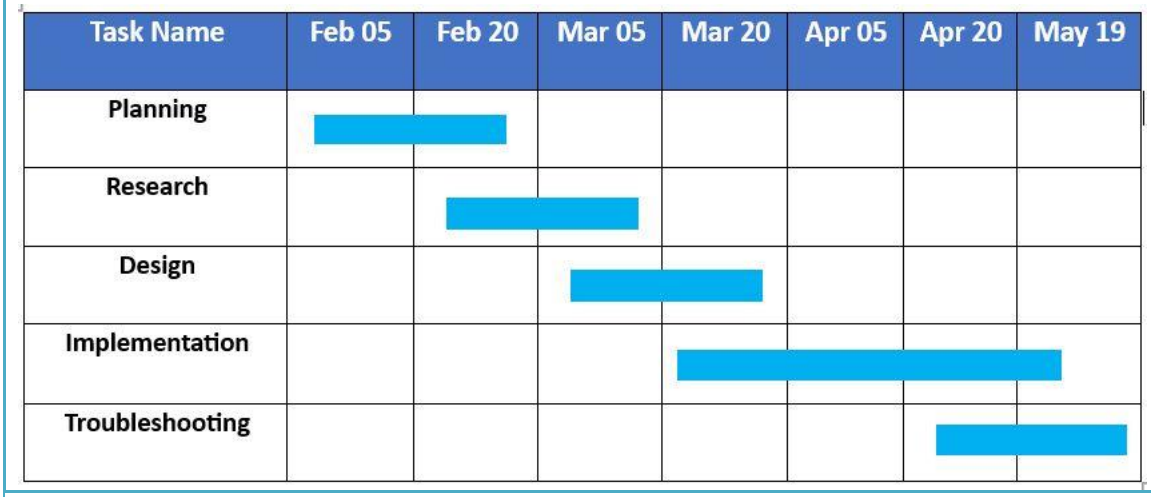
1. This is a hardware project which is capable of care plants automatically.
2. Contribute to Healthier Living Spaces.
3. Getting fresh herbs for daily use.
4. Giving plants less attention and making them grow.

4.3 Boundaries:

1. Take only a small type of indoor plant that is likely to grow in the cage we create.
2. Only the same type of plants are used**.**
3. When the water tank is empty, it does not automatically refill.
4. There is no power backup when facing a power outage.

5. BUDGET & TIME ESTIMATIONS

5.1 Executive Milestones:



5.2 Budget Estimation:

Project item	Total
Hardware • Aduino board • Sensors • Cables • Others	 Rs 2800 Rs 3000 Rs 500 Rs 1000
Outside cover	Rs 3000
Printing materials	Rs 200
Transportation	Rs 1000
Others	Rs 500
Total	**Rs 12 000**

5. ASSUMPTIONS, CONSTRAINTS AND RISKS

1. If the sensor does not work, the system will not work properly.
2. There is little chance of insect damage.
3. Power outages
4. We are planning to finish this project within 3 months.

7. WORKLOAD ALLOCATION (Please provide a brief description about the workload allocation)

MEMBER 1	Lakshan T. R
Soil Moisture Checking	
MEMBER 2	Devinda M.C.G
Wifi Module App	
MEMBER 3	Rangana W.P.M
Display Systems & Light Systems	
MEMBER 4	Rajapaksha K. V
Water Pumping System	

DECLARATION

"We declare that the project would involve material prepared by the Group members and that it would not fully or partially incorporate any material prepared by other persons for a fee or free of charge or that it would include material previously submitted by a candidate for a Degree or Diploma in any other University or Institute of Higher Learning and that, to the best of our knowledge and belief, it would not incorporate any material previously published or written by another person in relation to another project except with prior written approval from the lecturer of the module and that such unauthorized reproductions will construe offences punishable under the SLIIT Regulations.

We are aware, that if we are found guilty for the above-mentioned offences or any project-related plagiarism, the SLIIT has right to suspend the project at any time and or to suspend us from the examination and or from the Institution for minimum period of one year".

	STUDENT NAME
1	(GROUP LEADER) LAKSHAN T.R
2	DEVINDA M.C.G
3	RANGANA W.P.M
4	RAJAPAKSHA K.V