**Introduction**

1. **Background**

Plants are a diverse group of living organisms that are characterized by their ability to photosynthesize and produce their own food using energy from sunlight. They are the primary source of food and oxygen for most life on Earth, and they play a vital role in the ecosystem by providing habitat and resources for other organisms.

Plants play a vital role in the ecosystem and have a wide range of uses for humans, including food, medicine, and ornamental purposes. However, despite their importance, there is still much that we do not know about the biology, ecology, and evolution of plants.

The topic of my research is the category of home plants. While there has been some research in this area, the knowledge base is still limited and there is a need for more comprehensive and in-depth studies.

The significance of this research lies in its potential to improve our understanding of the diversity and function of plants, their proper usage and excellent utilization and to inform the development of sustainable and effective plant-based solutions for a range of challenges facing society.

1. **Aim**

To design and develop a web application which bridges the gap between a common user and the vast pool of information that is available over the internet about the home plants by providing a platform with everything at one place.

To improve the user experience of the website by updating the design and layout, simplifying the navigation, and incorporating responsive design for mobile devices within the next three months.

To increase online sales by 10% over the next year through the implementation of an effective e-commerce platform and the development of a comprehensive online marketing strategy.

1. **Motivation**

The topic of my research is to provide the genuine information about the plant as they could be useful in the use of plant-based medicine for the treatment of multiple health conditions. Plant-based medicine has a long history of use in traditional and alternative healthcare systems, and many people turn to these treatments as a natural and potentially safer alternative to conventional medicine. There is a need for more comprehensive and rigorous research to better understand the potential benefits and risks of these treatments.

1. Review the existing literature on the project and other relevant information.
2. Investigate the mechanisms through which the project could help improve gardening practices.
3. Investigate the mechanisms through which plant-based treatments may impact different health conditions.
4. **Proposed Work**

The study will use existing data available over the internet to collect data on different home plants. The data will be analyzed using Statistical techniques to investigate the relationship between variables of interest.

Data collection will involve data collection methods such as web scraping. Data analysis will be done on it using python and other data analysis tools.

Potential challenges that may arise during the study, which will be addressed by different strategies to address challenges. Ethical considerations will be addressed by obtaining Ethical approval and obtaining informed consent from all participants.