

# Abstract

Farmly is a mobile application designed to mainly solve the problem of the lack of experience in farming and inability to utilize available house gardening spaces, and the increasing prices of organic goods by encouraging people to plant their veggies, fruits, and herbs instead of buying them from the market. It supports and encourages home farming, and with its interactive interface and features, it offers a comprehensive database of information to assist users at every stage of their planting and gardening journey. The platform offers information about crops with planting guidelines, care instructions, and growth stages for various species including flowers, and herbs, all of that mapped to the user's specific conditions like soil, weather, and location. Users can utilize their gardening space to successfully grow plants for personal use or to start a business, by selling plants and related products. In addition to the informative plant database, users can securely access the app for an overview of their garden's status. Real-time weather integration will be included to help users plan gardening activities effectively, plus the pest's identification feature to ensure plant health.

Community engagement is enabled through a forum where users can share knowledge and experiences. Farmly will also have a tool website for administrators to control everything on the platform, like user accounts, database information and community involvement. This tool will be crucial for keeping Farmly running smoothly and helping it grow.

Through Farmly, we aim to promote sustainable agriculture, spread environmental consciousness, and build a vibrant community of home gardeners dedicated to nurturing green spaces and enhancing food and goods resources at the grassroots level.