ROOFTOP FARMING (IDT - B2)

Problem Statement

Support city stakeholders by expanding practical rooftop-farming knowledge, emphasizing low-cost heat mitigation, proper site assessment, modular setups, and efficient irrigation and shading techniques. By equipping households, small businesses, and local institutions with detailed, step-by-step guidance, communities can shift from ineffective, high-cost practices to scalable, climate-resilient food production. This approach reduces water use, limits chemical inputs, withstands pollution, and supports reliable yields. It also helps residents use idle roofs for food, boosting resilience citywide..

Project Team

CREATING 3.0

Team Members

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Solution

An interactive rooftop-farming application can be created to spread practical knowledge and encourage urban cultivation. The app can ask users about their location, weather patterns, available rooftop space, and sunlight levels to recommend suitable crops, fruits, vegetables, herbs, and ornamental plants to grow successfully. It can also provide educational videos, step-by-step guides, and articles translated into various Indian languages to teach proper techniques. Cost, yield, and environmental-impact modelling tools can help users estimate savings, benefits, and expected results. Additionally, smart irrigation reminders and schedules based on real-time climate data and seasonal trends can support water conservation and improve farming efficiency.