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# Bonus features for the app

## Key functionality

To extend the Smart Hydro system’s capabilities, the app will support the integration of a dynamic planting system. This system will allow users to select the type of plant they wish to grow, and upon selection, a HTTP request will be triggered to:

* Automatically adjust timers based on the selected plant's growth cycle,
* Modify the nutrient solution quantity delivered,
* Update lighting schedules,
* Regulate humidity levels,
* Set optimal electrical conductivity (EC) values.

This dynamic configuration ensures that each plant receives optimal growing conditions tailored to its specific needs, all managed directly through the app.

## User Enhancement

To enhance user experience and support informed decision-making, the app will integrate a weather API. This feature will:

* Check current local weather conditions,
* Provide real-time recommendations on whether conditions are suitable for planting,
* Offer insights into upcoming weather patterns that may affect hydroponic system performance (e.g., temperature, humidity, light exposure for greenhouse environments).

By incorporating environmental data, users can plan planting schedules more effectively and align them with optimal growth conditions.