

# Lawn Sprinkler System Run Time Scheduler

## Incremental Development

Based on the idea of developing an initial implementation, getting feedback from users and others, and evolving the software through several versions until the required system has been developed. Specification, development, and validation activities are interleaved rather than separated.

### Why?

I believe this is the best model at the early stage of the app development. I have an idea of what the app needs to include to do its job. It needs to be able to give an accurate run time for a sprinkler system zone. Getting this part working may be the first step, but as I develop it, more features will need to be implemented. These features will be developed incrementally as me and others use the app and decide what other features will work well.

## User requirements definition

The user shall be able to create a sprinkler system schedule showing run times for each sprinkler zone.

### Functional Requirements

1. The user shall be able to input specific plant information for each zone.
2. The user shall be able to input the amount of water usage per zone (gpm).
3. The user shall be able to input the square footage per zone.
4. The system shall generate a watering schedule report based on specific zone information input by the user. This schedule will also include the type of landscape material, amount of water usage, square footage, and running time.
5. The system shall generate a sprinkler zone run time for each zone displaying how long to water.

## Use case diagram

