

Watermango: Developer Challenge

Purpose

At TapMango, we run a small but highly effective development team. We are passionate about building highly usable, scalable and bug free software to be used by thousands of merchants across the world. With this challenge, we invite you to showcase your skills as a developer, both front-end and back-end.

Assessment

Your solution will be reviewed by the TapMango development team. We are looking for scalable, clear and well structured code. Any flair to the User Interface is always welcomed and will earn you **extra points**. If invited for an on-site interview, we will examine your code in a team environment and will brainstorm together how to take your solution to the next level. We also may engage you in a pair-programming exercise to extend your solution.

The Challenge

Our office has 5 plants, and no one to water them. We don't want them to die.

Create a .NET solution with a Web front-end that enables a user to water our plants remotely.

User Stories

#	User Stories
R1	As a user, I want to see a list of plants on a web page, as well as their watering status
R2	As a user, I want to start and stop watering of a plant. A plant takes 10 seconds to water.

R3	The system should support watering multiple plants at the same time.
R4	Plants need to rest from watering, so as a User, I should not be able to water the plant again within 30 seconds of the last watering session.
R5	As a user, I should be visually alerted if a plant hasn't been watered for more than 6 hours.

Other Requirements

1. The backend must be written in C#.
2. The frontend can be written in any ui/javascript framework.
3. Provide clear instructions on how to launch the website.
4. State management can be implemented in any way.

Submission

Create a new repository in GitHub and provide us with a link. If you require any clarification feel free to reach out to your HR representative and they will escalate it to our development team.

Best of Luck!