

# 1 Introduction: Part 1

## 1.1 PROBLEM STATEMENT

What problem is your project trying to solve? Use non-technical jargon as much as possible. You may find the Problem Statement Worksheet helpful.

The Accounting Services office has four permanent resident fish living in their office space that need to be monitored and fed around the clock. Since the employees in the Accounting office are not able to fulfill the needs of the fish on weekends, after work hours, and on vacations, this introduces the problem of how to continue to meet those needs while not currently in the office. This problem is an important issue because the fish are part of the Iowa State family and need to be well taken care of 24/7.

The solution we propose is to have a wired-electronic fish care device attached to the tank of the fish that will be able to be controlled remotely from an iPhone application. This device and application will allow the users to control the automatic fish feeding schedule from their iPhone, while also being able to monitor the pH and temperature level of the tank. This will be an adequate solution to this problem because it will allow for the fish to be monitored and fed around the clock while not having to be physically in the office.

## 1.2 INTENDED USERS AND USES

Who will use the product you create? Who benefits from or will be affected by the results of your project? Who cares that it exists? List as many users or user groups as are relevant to your project. For each user or user group, describe (1) key characteristics (e.g., a persona), (2) need(s) related to the project (e.g., a POV/needs statement), and (3) how they might use or benefit from the product you create. Please include any user research documentation, empathy maps, or other artifacts as appendices.

Our product will be used by The Accounting Services office employees at Iowa State. The fish and employees of the Accounting Services office will benefit from the project. The employees are very passionate about their resident fish living in the office and want to be able to take care of them in the best way possible around the clock, even when not in the office. They will need a way to monitor the fish tanks' pH and temperature remotely to ensure that they are doing fine, as well as be able to control their feeding schedule, in the office and out of the office. They will benefit from this project due to the peace of mind knowing that their fish are being fed and monitored around the clock, allowing them to keep their residents longer and healthier.