SLIDExCELL

Data Collection Made Quicker and Easier in Any Weather

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SWIM DRINK FISH
Connecting people with water

Background

Swim Drink Fish (SDF) is an organization that monitors recreational water quality across Canada

SDF collects environmental observations data (e.g., water rangers data, water quality, wildlife count, etc.) as part of their water sampling process

SDF staff record these data on paper and manually enter them into Excel to store in their database, which is time-consuming and inconvenient

Opportunity

Develop a time-efficient and reliable data collection system for SDF to record and upload environmental observations

Key Design Objectives

Compatibility
The design can modify any field in SDF's spreadsheet database

Time Efficiency
The design reduces the time required to record and upload data

Reliability
The design is functional in cold and rainy weather conditions

Key App Features

Home Screen
Create a new data entry and access instructions

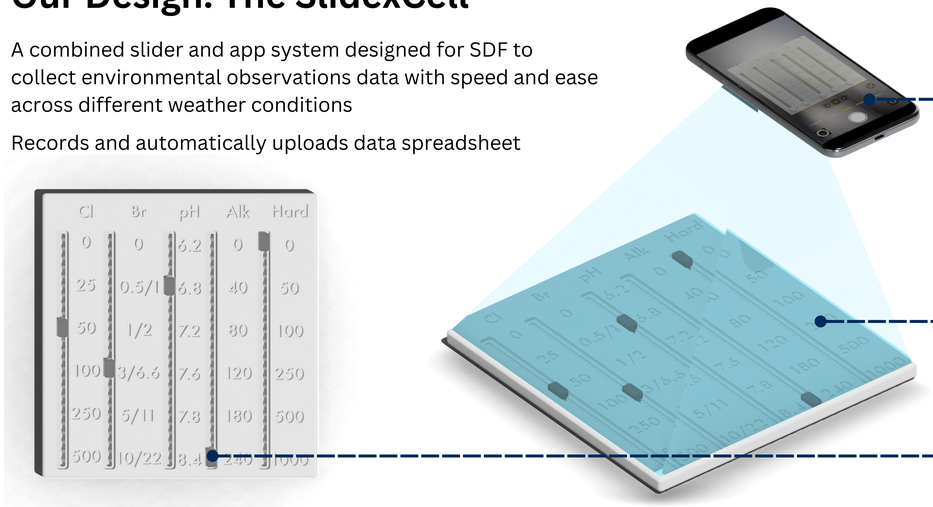
Scanning Button
Click it to scan the slider

Data Fields
Collects all fields in SDF's environmental observations charts

Our Design: The SlidexCell

A combined slider and app system designed for SDF to collect environmental observations data with speed and ease across different weather conditions

Records and automatically uploads data spreadsheet



Key Slider Features

Scanning
Click the app's scanning button and hold the phone above the slider

Data Fields
Collects all Water Rangers data

Sliding and Locking Button
Ensures reliable and comfortable sliding

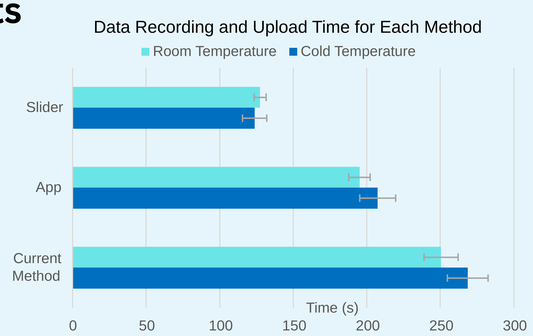
Spring Mechanism
Allows the button to slide while being pressed

Wedge Base and Groove
Wedge allows for easy assembly
Groove locks the button in place

Curved Edges
Allows for smooth sliding and increases user comfort

Test Results

1. The app and slider collect data faster than the current method
2. The slider shows the least change in time from room to cold temperatures



The slider and app were combined, as the slider best collects data that require direct contact with water (i.e., water rangers data)