

Project Title: CowCalfTracker	
Start Date: 01/01/23	End Date: 04/28/23
Team Members: Caleb Welch	
Project Sponsor: N/A	
Customer: N/A	
Users: Ranchers	
Purpose (Problem or opportunity addressed by the project): <ul style="list-style-type: none"> - Make keeping track of cattle faster and easier for ranchers - Other software that tracks cattle is complicated and expensive - Many do not offer a way to take attendance of cattle in the pasture 	
Goals and Objectives: <ul style="list-style-type: none"> a. Create a full stack web application b. Configure front and backend c. Make a web app that people will use 	
Schedule Information (Major milestones and deliverables): <ul style="list-style-type: none"> a. Frontend prototype b. Backend prototype c. Connect backend with database d. Connect frontend and backend e. Testable program 	
Financial Information (Cost estimate and budget information): N/A	
Approach: Mongodb, express, react, and node.js	
Constraints: The application is not native to a platform so it will lack specific features such as those that are available with a native iPhone application or android.	
Assumptions: A web app will be more accessible and easier to access	
Success Criteria: <ul style="list-style-type: none"> • User interface is responsive • Error handling is in place • App carries out user commands quickly and correctly • Data is reliable stored and not lost 	
Scope: <ul style="list-style-type: none"> - User can create herds to represent groups of cattle 	

- Cattle can be added to each herd
- User can use the “roll call” mode to check off if each animal is present at that time
- App will have full CRUD functionality

Risks and obstacles to success: App responsiveness on mobile, quality and ease of use, data needs to be reliably stored

Project Priorities and degrees of freedom: Creating a web application using JavaScript offers a large amount of freedom for features and availability.