

## CS 3750 Team 1 Charter

Name: CodeCraft

Motto: Crafting Code with Wizardry and Precision

Logo:






Vision:

Deliver a product that streamlines the reservation process for the HillAFB FamCamp RV park allowing customers to book slots online and employees to view accurate reservation information 24/7.

Team Expectations:

Each team member will take responsibility for their assigned tasks completing them promptly to be ready for deadlines/demonstrations. All code changes will go through PRs to be approved by at least one team member. Each member will dedicate a minimum of 4 hours per week to completing the project.

Team Photo:

		
Maria Bennett: Computer and data science student passionate about solving problems at the intersection of healthcare, data, and AI.	Ben Cash: Computer science major, interested in developing interactive websites and solving big data questions.	Luke Davis: Computer science and statistics student passionate about using data to solve technical problems.

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### Contact Info:

Name	Email	Phone	Role/Skills/Experience	Preferred Availability
Ben	benjamincash@mail.weber.edu	801-866-2683	Lead Programmer 2yr full stack development w/ React & Express	M-T after 7pm W after 6pm F anytime
Luke	lukedavis@mail.weber.edu	801-395-4722	Database Architect Python, Java, JS, SQL, React, Express, Git/GitHub, Playwright, TestNG 7 months software testing	M, W After 6:30 pm Tue after 5:30 pm Thu, Fri after 2:00 pm Anytime Sat
Maria	mariabennett@mail.weber.edu	801-719-4984	Front End, Project Management, AI/Machine Learning(Python), mySQL, C#, GitHub, basic unit testing	M-F after 4:30 pm Saturday after 12:00 pm Not available Sunday

### Meeting Info:

Meetings will be held through Discord on Wednesday and Friday evenings at 6:00 pm. Other meetings may be scheduled as needed.

### Conflict Resolution Strategy:

Appropriate use of GitHub. Communication and discussion. Majority vote.

### Software Stack:

Node, React, Express, MySql

## Project Information

*Background Information - As your team currently perceive it for your project. Why does the client need a software system?*

(a) The client needs a software system to manage reservations for an RV park at Hill Air Force Base. The system should allow eligible customers to book and pay for RV slots online, and should allow employees and administrators to view and manage reservations. Currently, the client is using a manual system on whiteboards that doesn't meet the needs of customers or employees.

*The Problem Statement for the project your team has selected - As you currently perceive it. Be as detailed as you can in 2-4 sentences.*

*(b) Address the problem, the domain, and targeted users.*

The client is managing the scheduling of spots manually which becomes a challenge with multiple reservations and being able to take requests and payments over the phone. The users

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are customers who are trying to reserve spaces on site, employees who will be viewing and managing the reservations and admins to perform administrative duties.

*(c) Mention whether there are any applications or systems that are similar to your planned work.*  
Hotel and campground reservation systems are very common and are similar to the application we will be building.

*(d) Discuss the limitations of other solutions and how you address each limitation.*

The current system where employees track reservations on whiteboards is problematic in that data can easily be recorded or deleted erroneously. An online system tied to a database can better retain data and it will be more difficult to delete or change reservation information by accident.

Phone reservations also present a problem in that reservations can only be made when employees are physically in the office. An online reservation system would allow customers to book at any time and would automatically check for open slots, preventing possible duplications in reservations.

*(e) Make a proposed solution statement (again, as succinct as possible in 2-4 sentences).*

We will build a web application to allow DoD customers to create accounts and book reservations for open slots at the RV park. Employees will be able to create reservations for customers and access a report to view available slots for any given date. This will create a simpler and more streamlined process to reserve spaces, relieving much of the tedious, clerical work for the system to manage.

GitHub Repository:

[https://github.com/bcash8/CS3750\\_RVPark](https://github.com/bcash8/CS3750_RVPark)

Trello Board:

<https://trello.com/invite/b/67146e43e0974c4cf692db76/ATTI58631e057af0553273fbbffc018cd3232286A3FE/cs-3750-team-rv-project>