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Week one Capstone Design Update

Capstone

Professor Finkbine

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### **Project and Week Overview**

This week the group met last Thursday 8/29/2024 as a group we spoke through discord chat from 12:30pm to 2:18pm. We discussed our connections we reached out to this was Ally Cat Advocates, and Cave Country Canoes. So far, we had heard back from CCC about a project topic idea we discussed that we believed this to be a feasible project. We wanted to give the other organization time to reach back out. They reached out late in the evening Friday and played phone tag till today at 2:41. We made the decision to go with CCC project idea.

The Project idea for CCC The owner Sherri Nail has asked that we make them an app. It will have a digital map that they have created of the river on it as well as safety

information. Every year they get more phone calls of paddlers being confused and scared and needing directions or in some cases emergency services. The customers will be able to click a button and enter their approximate or precise location that will be sent to CCC or emergency services. It also can just be forwarded to emergency services if needed from CCC. Making getting to them faster, safer, and less time consuming.

### **Questions we may be asked**

#### **What Database are we going to use?**

- These answers are facilitated from what has been mentioned in the group chat between Bailey, Brandon, and I.
- Bailey researched the database and what he thought would be best and discussed it with Brandon and I. Bailey's comment was that he did some basic research for server hosting on the database. Our best bet (in his opinion) is using port forwarding on port 3306 for MySQL; there are other SQL ports but 3306 is the most common. This will allow remote access to the MySQL database.
- We all discussed this and since Bailey is deemed as our main programmer, we decided it should be something we can learn more from him but also something he is comfortable with. So, it was decided to go with MySQL because using MySQL because of its straightforward structure and ease of integration with various high-level languages like Python, C, C++, C#, and Java. This choice allows us to utilize the GUI

libraries available in these languages, such as Python's Tinker and Java's JavaFX, to perform MySQL queries and handle data entry seamlessly.

- Pdf with a rough database table of what would be held in the app. This can be shared or opened if anyone wants to look at it.

### **What Programming Language are we thinking of using**

- Briefly talked about thinking either C++ or Python.

### **Gps intentionally errors gps in the money!!!!**