Cobber Chat

Course Name	CSC 345 – Fall 2020

Team Name	GSSK

Team Members	**Team Member 1 – Kinsey Younggren** **Team Member 2 – Shristi Chapagain** **Team Member 3 – Gansaikhan Shur** **Team Member 4 – Sachin Karki**

Executive Summary

Purpose

Cobber Chat is going to be a messaging platform where one person can talk to another on a different computer. Cobber Chat is going to allow people to communicate with each other on a low traffic platform, as well as it will be a challenging project for our group which would allow us to learn about computer networks in depth. Anyone could beifit from this project

Synopsis

This project is for someone to talk to someone else that has a computer that does not want to use or sign up for big companies. This is for anyone that would want to use it. Some people might like it better than other messaging platforms because it is simple, and has low traffic of people.

Background

Problem

Many Messaging platforms are high traffic areas and could crash with making this messaging platform it has fewer people using it so it is low traffic. Also, this helps us understand networking better and we could talk back and forth on something we made. With others it would be somewhere where they can talk to their friends for fun.
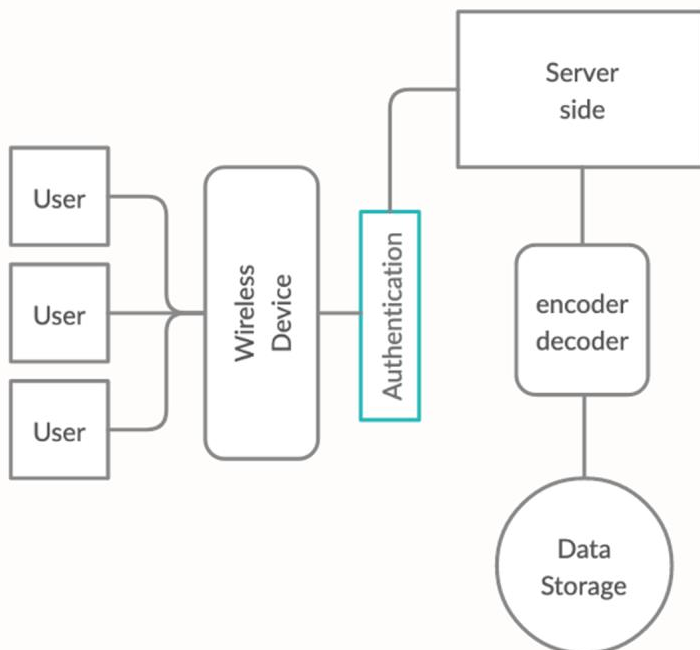
Project Plan

Milestone Summary

- Milestone 1: get group together and make a contract.
    - Completed
- Milestone 2: Figure out what final project is going to be and plan it out.
    - Completed.
- Milestone 3: Make a sketch of what the project is going to look like on the computer and how it is going to work together.
    - Completed
- Milestone 4: Have a good start on the project.
    - Completed
- Milestone 5: Figure out what is left of the project and dived up the work among us and continue working.
    - Deadline: October 29
- Milestone 6: Close to a little more than halfway done.
    - Deadline: November 16
- Milestone 7: Have the final project and presentation done.
    - Deadline: December 9

Milestone 1 and 2 Details

- Milestone 1

  - Team lead: Shristi

  - Worked on making a group contract and see when we are all available for team meetings

  - Meetings on Monday at 2

  - Assigned people for team leads for each milestone

  - Completed: September 10

- Milestone 2

  - Team lead: Kinsey Younggren

  - Figured out final project

  - Made a Network Topology Diagram

    - By: Gansaikhan Shur

Cobber Chat UML Diagram

User	Server side
User — Wireless Device — Authentication	encoder decoder
User	Data Storage

Milestone 3 Details

- Milestone 3

  - Team Lead: Khan

  - Designed and Sketched our website and how the data storage and retrieval part would work.

  - Kinsey

Cobber Chat   SETTINGS

Nibblet	▶
Kinsey	▶
Shristi	▶
Khan	▶
Sachin	▶

⬅ Back   **Nibblet**

Nibblet: Hey how's it going!

Me: Good how about you!

Nibblet: Good! What are you up to right now?

Just doing some homework.   SEND

You would have a list of your friends in your home page and would be able to click on then to send them a text

Milestone 3 Details

- Milestone 3

  - Shristi

Account Settings

| General |
| Security and Login |

General Account Settings

Name: GSSK   EDIT

Username: gssk   EDIT

Email: gssk@cord.edu   EDIT

Phone: XXX.XXX.XXXX   EDIT

Account Settings

| General |
| Security and Login |

Security and Login Settings

Change Password:

Current:

New:

Re-type New:
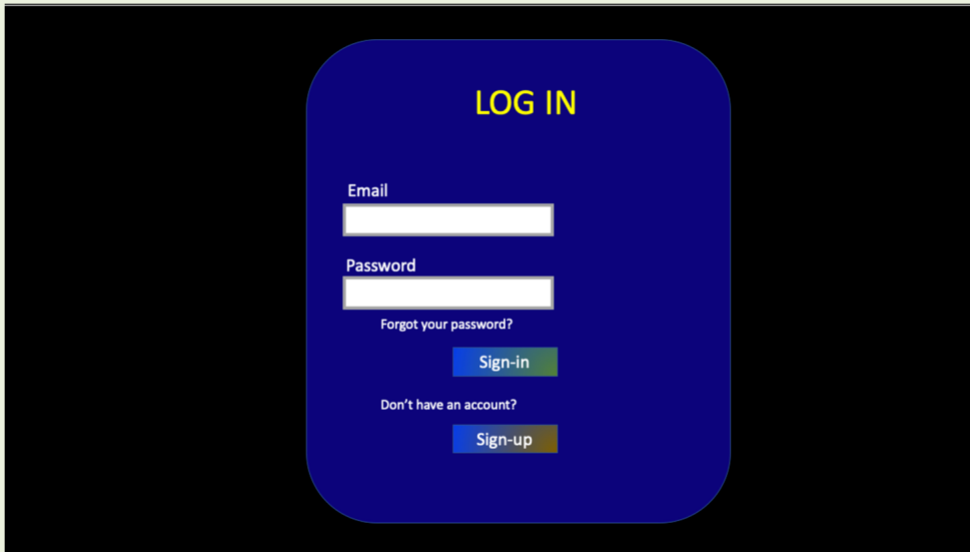
Forget your Password?

Save

A Settings page where you would be able to change your username, passwords, etc

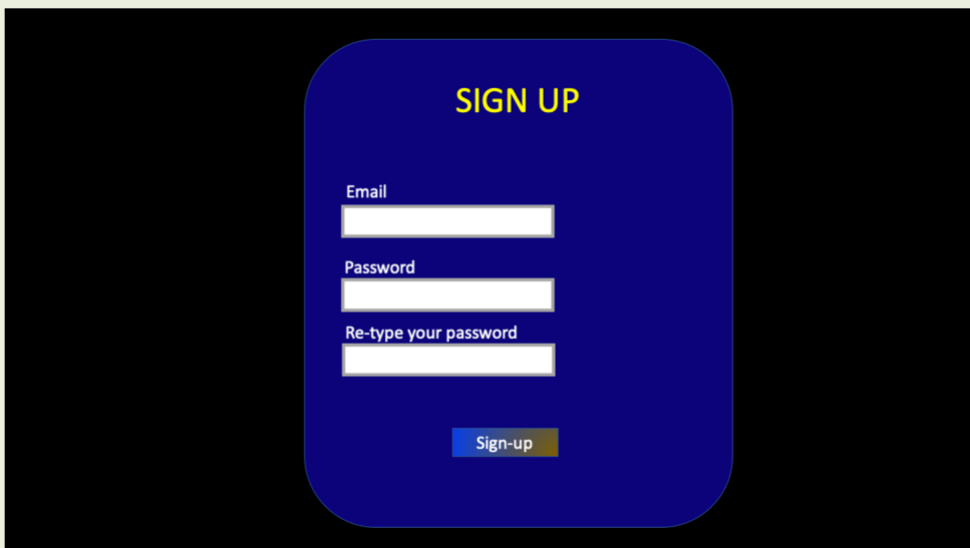# Milestone 3 Details

- Milestone 3

  - Sachin

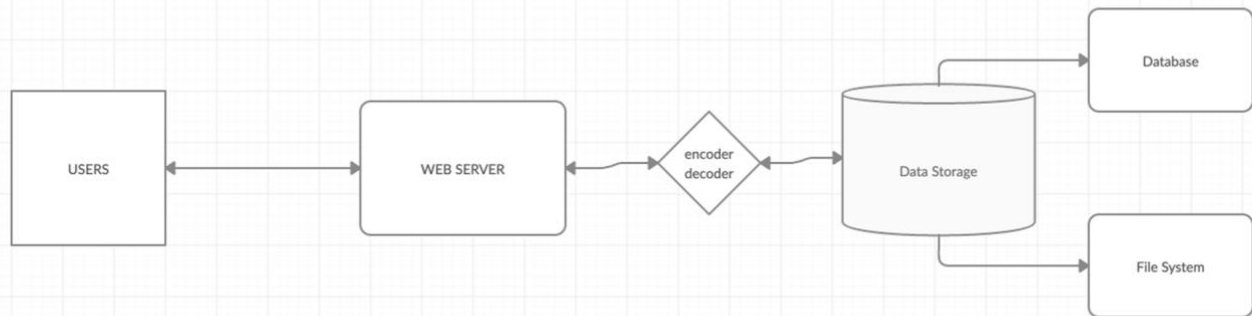A log in page

  - Khan

Milestone 3 Details

- Milestone 3


```
[
  {
    username: "Username",
    password: "superhard_password"
    friends: [
      {
        friend1: {
          {
            name: "Linda",
            conversation: [
              {
                date: "10/10/2020",
                time: "4:21PM",
                text: "We're over.",
                status: "seen"
              ]
            }
          }
        };

        friend2: {
          name: "John",
          conversation: [
            {
              date: "10/10/2020",
              time: "10:21PM",
              text: "k whatever",
              status: "unseen"
            }
          ]
        }
      ]
    }
  }
];
```

A sample Json format

- Milestone 3

USER ID	PASSWORD	File Location	Friends
USER1	YouCantGuessLmao	"./usr/{}/txt/".format(USER ID)	User2, User3, User5
USER2			
USER3			
USER4			
USER5			

A sample database table

Milestone 5:

Work Plan

Milestone 5

Milestones		Description:	Deadline
Network Setup/ Front-end complete		Setup the entire network and link every pages together so that it actually gives a feel of an application	11-Nov
Progress Update		Milestone-6 for the progress update	17-Nov
Back-End Complete		Back-end complete, which has sessions, chats for all the users, and some functionalities to modify the settings	25-Nov
Testing/Debugging		Debugging the entire apllication so that eveything works well.	5-Dec
Final Presentation		Milestone-7 Final Presentation	11-Dec

Categories:	Tasks	Description	Assigned to:	Deadline
Front-End Development				**5-Nov**
	Login Form, Making it similar	Making the login page similar to the other pages	Sachin	5-Nov
	Modify settings page	Adding more functionalities in the settings page.	Shristi	5-Nov
	Chatbox for different users	Making sure that there is just one page to chat with every users	Kinsey, Khan	5-Nov
	Link every pages together	Making sure we can efficiently navigate our whole application	Shristi	5-Nov
Network Setup				**9-Nov**
	Figure out to setup a network within computers	Setting up our custom ports for communication between our computers	Khan, Kinsey	9-Nov
		Connecting our computer on the same network using the ip address of the host	Everyone	9-Nov
		If nothing works out, web host will be for the last option which will definitely help in communication between the computers.	Everyone	9-Nov
Back-End Development				**20-Nov**
	Store login/ signup credentials, sessions	Start sessions and look for ways to store the login and signup credentials in the database.	Sachin	20-Nov
	Updating account settings	Accessing the information of users from sigup/ login and also making sure they can update those.	Shristi	20-Nov
	Storing messages in the database	Store every messages in a file/ database, and also fetching those to see the history of messages for all people.	Khan, Kinsey	20-Nov
Encrytion/ Decryption				**10-Nov**
	Encrypting Passwords	Encryting the passwords to avoid the admin to login as any users	Shristi, Sachin	10-Nov
	Encrypting Messages	Encrypting messages so that not even admin can see what the private messages are between two users on the application	Khan	10-Nov
Debugging/Testing	Debugging the entire network application	Debug our individual pages, and everyone meets virtually to see everything works as expected.	Everyone	1-Dec

Project Resources

Date	Name/URL	Note
9/27/2020	https://docs.oracle.com/cd/E19263-01/817-6440/topology.html	Helped on the topology diagram.