Computer Science Department

Capstone Project Proposal

**webb**

Name of an individual student or names of team members:

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Course Number and Course Title: CSC 520

Project Advisor

Dr. Bo Hatfield

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Professor Kentros

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**Student Objective**: Create **webb,** a data management web application designed and created with an emphasis on security. A user should be able to create an account or login, setting up a password with one capital letter, one special character, one number, and a minimum number of characters being twelve and maximum being one hundred. Upon setting up an account, the user will be prompted to setup two factor authentication for the email provided when signing up. The new user will also be prompted to setup their security questions for the account, being no less than three and no greater than six questions. Once the user has logged in, they will have the ability to import, export and password protect files and photos. Password protection for both the passwords for users as well as passwords secured on files will be using the encryption algorithm PBKDF2 with a SHA256 hash.