Team Firewall

2-Step Authentication Login

Use Case Report

Revision History

Authors	Description of Change	Sections	Rev	Date
Team Firewall	Initial Release		0	2/6/18

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1   Team Description

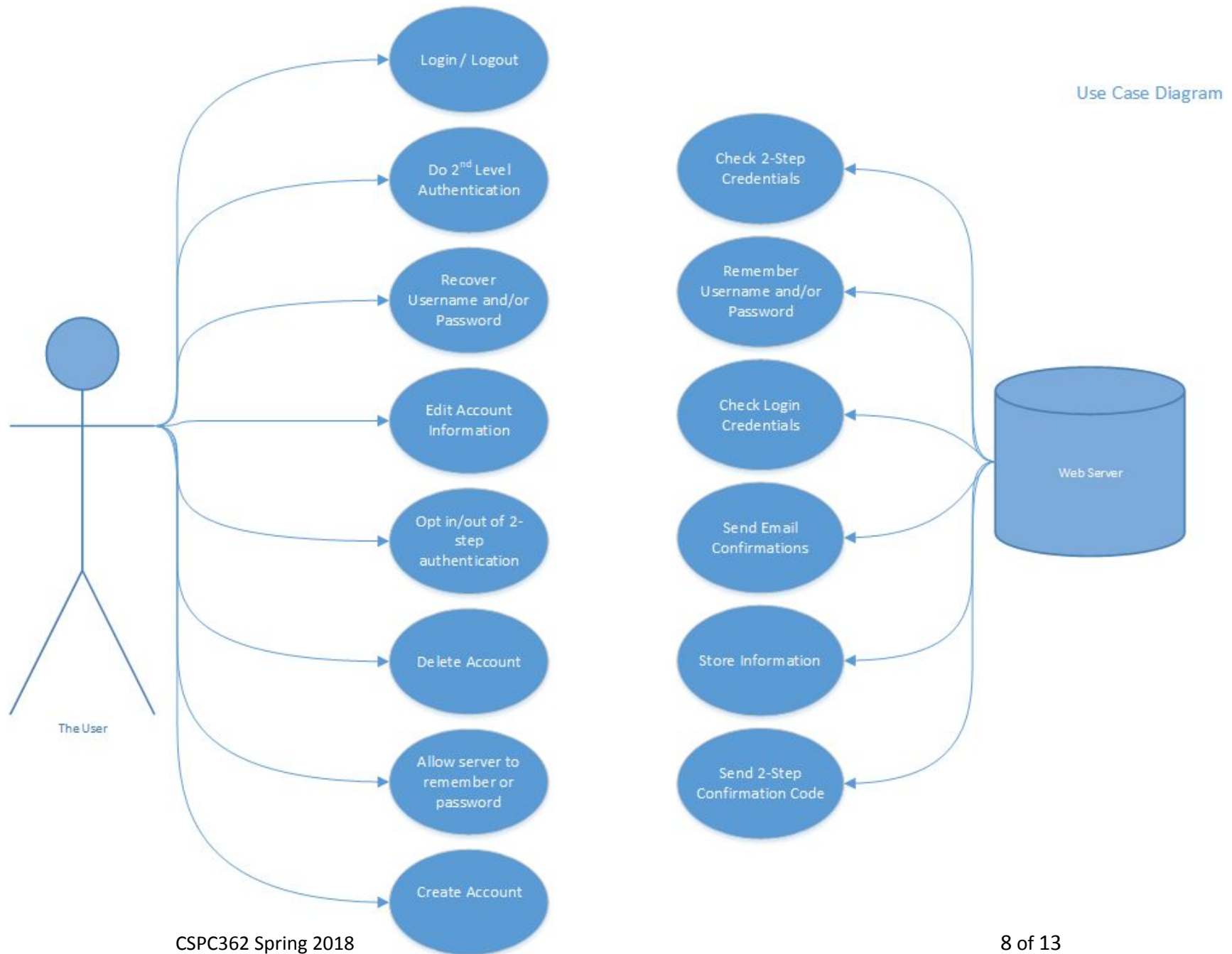| Team Member Name	Email Address
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2   Project Description

Statement of Purpose: Create a more secure login.

Detailed Description:

We will create a website and allow users to create accounts. From there they can login/logout, manage their account, and most importantly, opt in/out of 2-Step authentication for future logins.

2.1   Use Case Diagram

Use Case Diagram

Login / Logout

Do 2nd Level Authentication

Recover Username and/or Password

Edit Account Information

Opt in/out of 2-step authentication

Delete Account

Allow server to remember or password

Create Account

The User

Check 2-Step Credentials

Remember Username and/or Password

Check Login Credentials

Send Email Confirmations

Store Information

Send 2-Step Confirmation Code

Web Server

2.2   Use Case List

Use Case		
Sequence Number	**Actor**	**Goal**
1	User	Create Account
2	User	Login
3	User	Edit Account Info
4	User	Delete Account
5	User	Opt in/out of 2-step authentication
6	User	Do 2nd level authentication
7	User	Recover username or password
8	User	Allow server to remember username and password
9	Server	Check 2-step credentials
10	Server	Remember username and password
11	Server	Check login credentials
12	Server	Send email confirmations
13	Server	Store Information
14	Server	Send 2-step confirmation code

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2.2.1   Create Account

Primary Actor: User

Secondary Actors(s): Web Server

Goal in Context: Create an account.

Preconditions: Have internet access, have access to an email address, use appropriate username and password.

2.2.2   Login

Primary Actor: User

Secondary Actors(s): Web Server

Goal in Context: Login.

Preconditions: Have internet access, have access to an email address (for first time login or if 2-step verification is turned on).

2.2.3   Edit Account Info

Primary Actor: User

Secondary Actors(s): Web Server

Goal in Context: Allow the user to edit account info.

Preconditions: Have internet access, have access to an email address.

Change Username
Allow the user to change their username.

Change Password
Allow the user to change their password.

Change Email
Allow the user to change their email.

2.2.4   Delete Account

Primary Actor: User

Secondary Actors(s): Web Server

Goal in Context: Delete account.

Preconditions: Have internet access.

2.2.5   Opt in/out of 2-step authentication

Primary Actor: User

Secondary Actors(s): Web Server

Goal in Context: Give user an option of having a 2-step authentication.

Preconditions: Have internet access, have access to an email address.

2.2.6   Do 2nd Level Authentication

Primary Actor: User

Secondary Actors(s): Web Server

Goal in Context: Allow the user to enter the code sent to them via email to authenticate.

Preconditions: Have internet access, have access to an email address.

2.2.7   Recover username or password

Primary Actor: User

Secondary Actors(s): Web Server

Goal in Context: Allow the user to be able to recover their username or password.

Preconditions: Have internet access, have access to an email address.

2.2.8   Allow server to remember username and password

Primary Actor: User

Secondary Actors(s): Web Server

Goal in Context: Allow the server to remember username and password.

Preconditions: Have internet access.

2.2.9   Check 2-step credentials

Primary Actor: Web Server

Secondary Actors(s): User

Goal in Context: The server will check if the code entered by the user matches the code sent to their email.

Preconditions: Server must be online.

2.2.10 Remember username and password

Primary Actor: Web Server

Secondary Actors(s): User

Goal in Context: The server save the username and password for the user so that they don't have to enter it when they login.

Preconditions: Server must be online.

2.2.11 Check Login credentials

Primary Actor: Web Server

Secondary Actors(s): User

Goal in Context: The server will check if the username and password entered by the user match an account.

Preconditions: Server must be online.

2.2.12 Send Email Confirmation

Primary Actor: Web Server

Secondary Actors(s): User

Goal in Context: The server will send a confirmation email to the email account associated with the logged in account.

Preconditions: Server must be online, user must have internet access and access to an email address.

2.2.13 Store Information

Primary Actor: Web Server

Secondary Actors(s): User

Goal in Context: The server will store the account information of the user.

Preconditions: Server must be online.

2.2.14 Send 2-step confirmation code

Primary Actor: Web Server

Secondary Actors(s): User

Goal in Context: The server will send an a code to the email associated with the logged in account.

Preconditions: Server must be online.