Web Technology Coursework 2 Report

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Introduction

An introduction to the assignment stating its scope and content, this should include a brief overview of your site and your choice of features and functionality. Reference any background reading you’ve done

Overview of project. Rewrite the overview

The aim of this project is to create a coded messaging platform that uses the ciphers implemented in the previous coursework. This platform will have both server and client elements, with the server supporting CRUD (create, retrieve, update, delete) functions and allowing the persistence of data.

Aims of what I want to implement

My website should allow users to create accounts, log in via those accounts. It should display both a list of messages addressed to the user and the user should be able to select an individual message and have that displayed to them. The user should also be able to add messages which will be sent to another user. Finally, my server should allow the messages to persist along with the users. Ideally inside of a database, my server should also store data like passwords securely to make sure it adheres to basic security standards

Design

You are expected to plan how you will approach your implementation before actually writing any html, css or js. You should describe this plan and the associated requirements, sketches of the layout for important pages or a navigation diagram showing how pages are organized in relation to each other.

Nav diagram/explain what the pages do

Below is the navigation diagram for my website. My plan is to use the sign up page as the ‘homepage’ by having it be the first page the user is taken to. Once on that page the user can either sign up for an account or click a button that takes them to the login page and they can log in from there if they already have an account. Once either the user is logged in or signed up they are taken to the home page, from there they can either go to a read message page or write message page. Both of these pages allow the user to go back to the home page. Design wise, im going to continue on from my aesthetic choices from the last project. My plan is to make the website as simple as possible to make it easy to use, there should be no unnecessary features as these would make the u.i. more confusing.

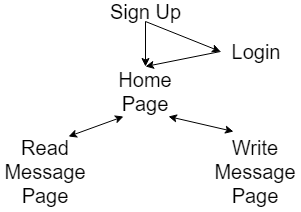


Figure 1: Navigation Diagram

Signup, creates a user/posts to user

My signup page has one job, taking in the data for a new user and adding it to the database. It will do this by using some text boxes to allow the user to input their data then make a post request to my user route, adding the user to the database.

Login, gets from user/matches entered data with database

My login page is similar to my signup page in that it takes in data entered by the user and makes a post request, but unlike my signup page the post request will check that the data entered exists in the database and if true will render the home page.

Homepage, shows all the messages addressed to a user/gets from messages

My home page will display a list of all the messages addressed to the user currently logged in. It will do this by making a get request to messages/<username> this route returns all the messages from the database when the recipient is the user that is logged in. The page will allow the user to click on a message and be taken to the individual messages page and will also have a link to the write message page.

Read message, shows one message/gets from messages/messageID

My read message page will show the full contents of a message, including the sender. It will call the messages/messageID route to return the data from one single message. The page will also allow the user to go back to the home page to check all of their other messages.

Write message, gives you some boxes to enter message into/posts to message

Finally, the write message page will allow the user to create a message. It will text boxes for the user to input all of the relevant fields to the message, it will then post to /messages and add the message to the database for it to be retrieved by the recipient.

Implementation

A short description of your sites implementation including screenshots

Critical Evaluation

A critical evaluation of your implementation, points to consider discussing in this section are a comparison against the requirements set out in this document and possible improvements to your application.

Personal Evaluation

Reflecting on what you learned, the challenges you faced, the methods used to overcome challenges and how you feel you performed.

References