**AH Computing Science Project Log - Week # 17**

| **Date /**  **Time Spent(min)** | **Work Completed** | **Issues Arising**  ***(including changes to plans)*** | **Commentary on Work** |
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| 105 | did php for login page  made database and tables and in sql  made rough drafts of php, data dictionary and er diagrams whilst working on the above | spent a lot of time debating what would be the best method of storing passwords, whether it be commenting them out or some other method, have decided to leave it to a future me  a comma at the end of some sql also stopped me from making a table for 20 min  in addition to this, varbinary max for phpMyAdmin is 65535 which leads to bytes needed to be taken off to reach the max for a table when I was making a field for images  syntax errors in general were the main cause of concern here | i believe commenting usernames and passwords before storage will be the safest method for the database.  I am very thankful to stackoverflow and the people there who get stuck and ask questions. |
| 60 | did php for registration page however i have yet to have a chance to test it  this is due to chrome blocking access:  <https://stackoverflow.com/questions/39007243/cannot-open-local-file-chrome-not-allowed-to-load-local-resource> | No issues arose as i have yet to test it  a change to plan is i will have to redraft my php algorithms to take into account the changes i’ve made along with my er diagrams due to changes in plan | the php documentation on the offical website was extremely helpful when figuring out what to use when writing my code  in addition to this the stackoverflow forums have helped immensely as well. A page of note is the following:  <https://stackoverflow.com/questions/5613898/storing-images-in-sql-server>  which was extremely useful for when i couldn’t figure out how to store an image in sql.  Leading me to store my images on a seperate table from my actual user data |
| 60 | redrafted data dictionary and er diagrams in word and edited some sql | changed field length of varbinary from 65476 to 65540 as i discovered that a timestamp is not 32 bytes long but is actually 4 bytes long  i also forgot how to copy and paste tables so i had to get a friend to help re learn how to do it | this took more time than expected due to me having lunch in the middle |
| 40 | worked on php more  researched input sanitization for the password as i know that the username is only alphanumeric whilst i would like the password to include its characters but not to the point where sql injection is possible, hence the use of htmlentities() function | changed some php  to  as it was incorrect and wouldn’t change the html tags to plaintext  in addition i changed it again to this    so it santises both single and double quotes  added this    so backslashes null characters etc are escaped | the php documentation is extremely useful  this page in particular was of great help <http://php.net/manual/en/function.htmlentities.php>  i also now believe for at least the registration page, that sql injections are impossible |
| 90 | fixed a bug which makes it so that the css for my webpages don’t load in phpMyAdmin | some info from the following url:  <https://stackoverflow.com/questions/14052473/go-to-local-url-with-javascript>  “This is because JavaScript does not have access to **local** files (due to it being sandboxed), and you're setting the new url with JavaScript.  "SandBoxed" means a technology has restricted (or no) access outside a certain set of bounds. In the case of browsers, this means that the code that runs on the page can not access files on your system (Otherwise, it would be easy to "steal" data, by just having a look at the user's file system).”  This seems to be the case with my signup button for my website. A screenshot of the bug:    I went about fixing this by changing the javascript is it indicated that the URL shown here is wrong, as the domain should be 127.0.0.1  which lead to a 404    even if i had the right address:    Which after some digging, lead me to find that having a “/” at the very end indicates opening of a folder, therefore after taking away the “/” at the end of /Register.html/ it worked. | Figuring out what the bug was and then figuring out how to fix it here was probably one of the hardest things in the project so far. As logic errors are quite difficult to solve in my experience. Especially with a language I don’t have much time with (javascript).  After a short break, I will be going back to working on my php as the links seem to be functional now. |
| 60 | some debugging | a simple syntax error    and some more    changed mime\_content\_type($\_POST[“UserImage”]) as i kept getting the following error    leading me to try using finfo instead to get if the file was an image  however finfo was not activated within the php.ini file, so i went into it and activated it  i found the ini file by executing the following line at the beginning or Register.html  <?php echo php\_ini\_loaded\_file(); ?>  unactivated finfo extension:    I then had to restart the server afterwards  after this occured the changes i made to the ini file did not occur for some reason. upon restart of the server, the line would again be commented.  i then read the following line  ;------------------------ IMPORTANT ! ----------------------  ; This file is GENERATED by EasyPHP when needed so edit the  ; file K:/EasyPHP-DevServer-14.1VC11 - Project\binaries\conf\_files\php.ini if you want to do  ; modifications in this file  ;-----------------------------------------------------------  so i went and did that and the finfo is now functional  which subsequently allows mime\_content\_type() to now also be functional, so i will go back to using that.  the elseif for checking if a file is an image now works | the finfo fix was found with help from the following pages:  <https://stackoverflow.com/questions/3579072/php-fileinfo-is-undefined-function>  <https://stackoverflow.com/questions/8684609/where-is-my-php-ini-file-located-on-the-server> |
| 40 | some testing on register.php and debugging  trying to make it so that if you have userimage empty, your userimage will be the default image | forgot strlen() when validating if a password is long enough or too long    now present  some evidence of ongoing testing    variable name is incorrect here: |  |
| 60 | continuing to work on “if image from post is empty, set image to default avatar”  so far have managed to set the user image to the default if they haven’t chosen one | learned via testing that when the image was sent by post, it only sent the string for the file name  currently trying to fix this | this webpage seems like it may have the solution:  <http://php.net/manual/en/features.file-upload.post-method.php>  however, i currently am considering making it so that the user chooses their file on their own whilst already logged in. This is to simply speed up the implementation as quite a bit of time has already been spent working on the registration file.  in addition to this, a redraft of my gantt chart is again needed as i believe i won’t have my implementation done by until the february break, along with time lost to prelims in january as well and a simple lack of work done whilst on holiday during the christmas break.  i also will need to redraft my wireframe models of my user interface as there has been multiple changes to it since the creation of my css and html.  finally, i have yet to work on writing up pseudocode for any of my javascript as i had not expected to use much if any javascript. whilst now i have used enough for it to be necessary. redrafts of my php and sql will also be necessary as i had only created quite general pseudocode as a guideline for when i was making my website. not having included any refinements due to the above statement. I will have to go back add changes to my plans as well. |
| 80 | redrafted my html and php for registration  i was also able to make it so that it will echo the error msgs into the html  added validation to see if the user name is too long or too short | i have decided to remove choosing an image from my php and html for the registration and move it to later on in user settings when the user is logged in  this is simply to speed up implementation as i currently am unable to manipulate the image from POST | a screenshot of the echoed error msg:    screenshot of username length validation: |
| 40 | made it so that if you entered a username on the sign up page and you enter something wrong, the username stays    created sql query to insert a user into the database | sql query worked however it did not upload the user to the database but $user and $pword.  this is a syntax error and will be fixed quickly    issues in testing to see if the user exists in the table already |  |
| 30 | fixed syntax error and added an if statement to only add the user if they are not in the table. this is done by doing a count of users who have the same username as the inputted username and if the inputted username is in the database then it tells them that ‘that username already exists’ | some slight debugging on some syntax errors, had missed a semicolon here and there | the very first user |
| 60 | researching how to keep a user logged in between pages | I decided to create a welcome page for new users to the website. | After having managed to get a user profile to be created, i am now seeing how I can keep a user logged in between web pages. This seems to be done via the use of cookies. I’m also currently learning about http headers which these cookies are stored in. These two pages by MDN are what I’m currently using to learn about them:  <https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers>  <https://developer.mozilla.org/en-US/docs/Web/HTTP/Cookies>  and here are the pages on them from the php documentation:  <http://php.net/manual/en/function.header.php>  <https://secure.php.net/manual/en/function.setcookie.php> |
| 60 | rearranged register.php so that no outputs occur before headers are sent  on welcome page tried to echo user from a cookie | made each error msg set to a variable called $error so that no outputs are occuring  bug when trying to access cookie: | i will be asking for help from a friend as i can’t see the error |
| 30 | with a bit of help debugging with a friend i was able to get the cookie to work | i will be getting rid of the welcome page and simply redirect the user back to the login page as it is taking time and effort to get an animation to work and i believe i’ve spent enough time on it now  the error was that in my setcookie function my time and path were the wrong way round | i spent about 20min reading the documentation and decided that it was not worth the time or effort to understand how to get the animation to work  i will be next be working on the php for the login page |

| **Next Steps:** | redraft gantt chart, sql, php pseudocode, wireframes, detailed project plan, outline plan probably, write up javascript pseudocode, get round to user profiles, redraft test plan |
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| ***Teacher's Comments*** |  |
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| ***Teacher's Signature*** |  |