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| **CSY1028: Web Programming** | | | | | | | |
| Due for Issue (week commencing): | **Tuesday, 19th December, 2017** | | **Late Date for Submission:** | | | **Sunday 14th**  **JANUARY 2018**  **23:59:59** | |
| Agreed Date for late submission: | **Friday 14th**  **JANUARY 2018**  **23:59:59** | | Module Tutor: | | | **Thomas Butler** | |
| Student ID: | **17421492** | | | | | | |
| Aspect (& weighting) | Excellent  A | Good  B | | Satisfactory  C | Needs some more work  D | | Needs much  more work  F |
| Functionality (35%) |  |  | |  |  | |  |
| Testing and Error Handling  (15%) |  |  | |  |  | |  |
| Technical Documentation  (20%) |  |  | |  |  | |  |
| Evaluation (15%) |  |  | |  |  | |  |
| Code Quality and Efficiency (10%) |  |  | |  |  | |  |
| Video Demonstration  (5%) |  |  | |  |  | |  |

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| Specific aspects of the assignment that the marker likes: | | Specific aspects of the assignment that need more work: | | | |
| Tutor’s Signature: |  | Date: |  | Grade: |  |

Contents

[Introduction: 3](#_Toc503688469)

[Evidence of Testing: 3](#_Toc503688470)

[Problems/Bugs: 5](#_Toc503688471)

[Solution: 5](#_Toc503688472)

[Design and Technical Documentation: 5](#_Toc503688473)

[ Add a new page to the website: 5](#_Toc503688474)

[ Add a new field (e.g. location) to the news article page: 6](#_Toc503688475)

[ Add a new field (e.g. rating) to the comment form: 6](#_Toc503688476)

[ Extend the website to allow editing comments: 6](#_Toc503688477)

[ Any other features which you have implemented e.g. password hashing or security 6](#_Toc503688478)

[Evaluation: 6](#_Toc503688479)

[Reference: 7](#_Toc503688480)

Login Credentials:

For admin

Username: admin

Password: sunil

For normal user

Username: sunil43thapa

Password: sunil

# Introduction:

Newsletter for Northampton has been provided to us in which we are ought to present given website with backend functionality for administrator of the website using PHP and MySQL. This site contains two type of user: Normal and Admin. There are limitations to normal user whereas admin can perform all sort of task. Admin can add, edit and delete category, news, comment and user. Normal user can comment on the news article and reply to the comment(nested comment feature).

# Evidence of Testing:

Here are the result of the test that were performed.

|  |  |  |  |
| --- | --- | --- | --- |
| **S.N.** | **Name Of Test** | **Expected Output** | **Outcome** |
|  | Adding news article | News must be added only by admin and shall display news on the front end browser. | Only admin can add news article and meanwhile after adding article, article gets displayed on the relevant category. |
|  | Adding category | Admin shall add category and it should get displayed on the site. | Admin can add category and the added category is displayed dynamically on the site on drop down menu. |
|  | Assign articles to category | News/Article must be displayed on relevant category. | When news is created admin shall select category which allows news to be assigned to the particular category. |
|  | Edit article | Admin shall edit contents of article and it should also change content on the site. | Editing article author name, article title, article content as well as add image on the article via admin and the change take place on the site. |
|  | Delete article | Admin ought to delete articles and relevant comment associated with the article must also be deleted. | While deleting article/news, all the contents of the particular article with comment associated with it gets deleted and the action can only be performed via admin. |
|  | Edit and delete category | Admin must have privilege to edit or delete category. | The privilege to edit and delete category is only for admin and while deleting the category all the articles and its comment gets deleted. |
|  | Latest article feature | Recently added news/article must be displayed on the home page. | With the help of Date and Time function, recently added news/article is displayed on the top. |
|  | Add comment | There must be facility of adding comment and it should only be visible on those particular news. | There is a text area on the article which allows user to add comment to the relevant article and the comment is only displayed on commented article. |
|  | Moderation of comment | After user add comment to the article, it should wait for admin to respond whether to publish the comment on the site. | Comment added by user waits respond from admin whether to publish the comment or not and user is notified via email. |
|  | Upload image | Image should be uploaded by admin and be shown on the relevant news. | Admin can upload image on the relevant article and is shown on the article with the title and the article content. |
|  | Social media button | Facebook share button shall have article sharing feature. | Via developers.facebook.com, Facebook share button code has been embedded on the page that allows sharing feature of article. |
|  | Search news either by article name or article author | Relevant searched keyword data must display. | Entered keyword is searched for relevant data on news database and when found, it displays the result. |
|  | Admin manage account | Admin must be able to create, edit, delete user and also can create, edit and delete other admin. | Admin can manage other user's as well as other admin account. |
|  | Securely store password | Password of created user's account must be securely stored. | On the database password of user's and admin is securely stored and the technique to store the password is hashing technique. |
|  | Comment only by logged in user | User must be a member to the system and shall log in to the system in order to comment on article. | If visitor tries to comment on article then page redirects visitor to login page so that only logged in user can comment on the article. If he/she is not on the system, he/she can create account. |
|  | Create account | Visitor shall create account and should be notified by email. | Visitor can create account to use other facilities of the site and user created notification is sent via email. |
|  | Nested comment | User must be able to reply to the comment. | If user clicks on reply button, user will be redirected to the comment page where user will get text area from which user can reply to the comment. |
|  | Click user and see his/her all comments | While admin clicks on user, it should display all the comments the user has made. | Instead of clicking to the username, admin have to search username and the keyword will then match into the database and will display the result which includes all his/her comment. |
|  | Prevent normal user to login to admin panel | Normal user must not get access to the admin panel. | Using SESSION, if normal user tries to navigate to admin panel, system will redirect to index page. |

There were few bugs that occurred while completing this assignment.

### Problems/Bugs:

* Adding image to the article. While adding news and uploading image on the same phase, an error occurs on linking of image to the news table as news id is foreign key for image table. Since, news is also being created side by side, while uploading image on same phase, that particular image won't be getting required news id field.
* Prevent normal user to access admin panel.

### Solution:

* In order to add image to the article, admin has to upload edit the article. Doing this, news id will have already been set and this will provide news id to image table in order to link the image to respective news.
* A field called account\_type is created on the user database(normal user, admin user). While visitor logs in, he/she should select account type from radio button. If tries to go with wrong account type, system will display error notifying username doesn't exists. After logged in, value is sent via SESSION to all the pages of admin so that he/she can't navigate to admin pages.

# Design and Technical Documentation:

### Add a new page to the website:

Let us suppose we need to add a new page called "Latest article".

Here are the procedures:

* Create file and need to import header, indexFooter and connectToDatabase in order to provide page with default layout and connection to Database.
* On news table, there is a field called articlePostDate which stores system date and time. Use of this field can help to display latest article posted on the site.
* Height of particular news can be set using min-height CSS styling.

Developer can use validate.js in order to validate form and can use addEditDel.js in order to display/hide field on button click event. Can modify style.css in order to modify design.

### Add a new field (e.g. location) to the news article page:

* Create field on the news table on the database.
* Add newly added field on admin panel so that admin can edit/delete any relevant information of that particular field.
* Since table that displays information is created dynamically so, developer should only add title name on news.php setTableSubTitle() function, also add newly added column while querying system takes all the necessary field to extract required data.

### Add a new field (e.g. rating) to the comment form:

* Create field on the comment table on the database.
* Add newly added field on admin panel so that admin can edit/delete any relevant information of that particular comment.
* Since table that displays information is created dynamically so, developer should only add field name on adminComment.php setTableSubTitle() function, also add newly added column while querying system takes all the necessary field to extract required data.
* Developer can use reply.php and nestedcommentstoretable table to store rating field provided by particular user and link user to the user's table to gain details.

### Extend the website to allow editing comments:

The author would like to add editing facility of comments on future improvement of the sites. An option near the reply button could be introduced. This would load a new input form that contains comment value. User then can edit previous comment and on button click database would update the comment on database.

### Any other features which you have implemented e.g. password hashing or security

Password is securely stored on the database and the method is password hashing technique. This would create encrypted value of a particular password. This gives major security to the system. There is facility to upload image of particular article. There is limited privilege to the normal user while admin can perform all the tasks. User's are also restricted from admin panel.

# Evaluation:

Features such as: adding article, editing article, deleting article, adding category, editing category, deleting category, add news, edit news, delete news, add image to the news, publish/hide comment, admin can search comment of particular user, user gets notified via email, visitors can search article by article title or article author name, latest article is shown on the top of home page, on clicking read more of news, only logged user can enter comment and can reply to comment while visitor can only view entered comment, visitor can create account which will be then notified to user on his/her email default by bot, visitor can share particular news using share button on facebook, added category gets automatically added to the site.

Future, design can be drastically improved making site more user friendly. Backend as well as frontend design could be improved. User could be notified by email about daily newsletters so that site can get more visitor on daily basis. While user make account, confirmation link could be send via email so to prevent from fake users. Comments could have more of features like editing comment, liking comment. Facility of uploading an image of user as a portfolio could be made in future. Weather information could be displayed. Trending block could be implemented in order to provide latest hot news to the visitor. For advertisers, a section of advertisement could be made through which a valid advertiser can only contact and can advertise their ads on the site. When user clicks news/article, similar articles could be shown on the sidebar or bottom of the current article.

Code has been written on standard format. Naming convention of functions, variable names are well maintained and are meaningful to the actions they perform. Coding indentation are well maintained. The author has reduced redundancy of code through creating news files and importing those files where needed. On future, to edit the site, developer don't need to change same code on multiple files as most of files are interrelated with each other. Due to well managed naming conventions, it is easier for other developer to find code that performs a specific task.

# Reference:

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* MCFC. (2018). *Raheem: City focused on points not records*. [online] Available at: https://www.mancity.com/news/first-team/first-team-news/2017/december/newcastle-v-man-city-player-reaction [Accessed 28 Dec. 2017].
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