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ITMD 562 WEBSITE APPLICATION DEVELOPMENT

PROJECT 3 NOTE APPLICATION

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Project Description

This project is an extended project of earlier given project 2, to create a note taking application using PHP programming language. The main aim of the project is to allow a user to perform CRUD operations (Create, Read, Update and Delete) on a note.

In this project, user authentication has also been performed. Once the user enters valid login id and password, user gets logged in to index.php landing page or else remains in the login page.

Data entered by the user is stored in the database. There is index.php page which is the landing page for the application that shows the list of notes created by the user, from where the user is able to view, add, edit, update or delete the note. Additionally, there is a button on the same page to create new notes.

This project has been developed using HTML, PHP, SQLite database engine and CSS. HTML has been used for front-end application development whereas PHP has been used to get dynamic data. SQLite has been used to store the user entered data in the database. Meanwhile styling is done to present webpages in more clear way through CSS.

Development Environment

- WAMP Server 3.0.0 - Windows web development environment.
- DB browser for SQLite 3.9.0
- Operating System: Windows 10 Home, 64 Bit operating system, x64-based processor.
- Processor: Intel(R) Core(TM) i7
- Computer Environment: HP ENVY x360 laptop
- Scripting Languages: HTML5, PHP-5.6.16 and CSS3.
- Tools: Sublime Text Editor 3, WebStorm 2016.1.1.

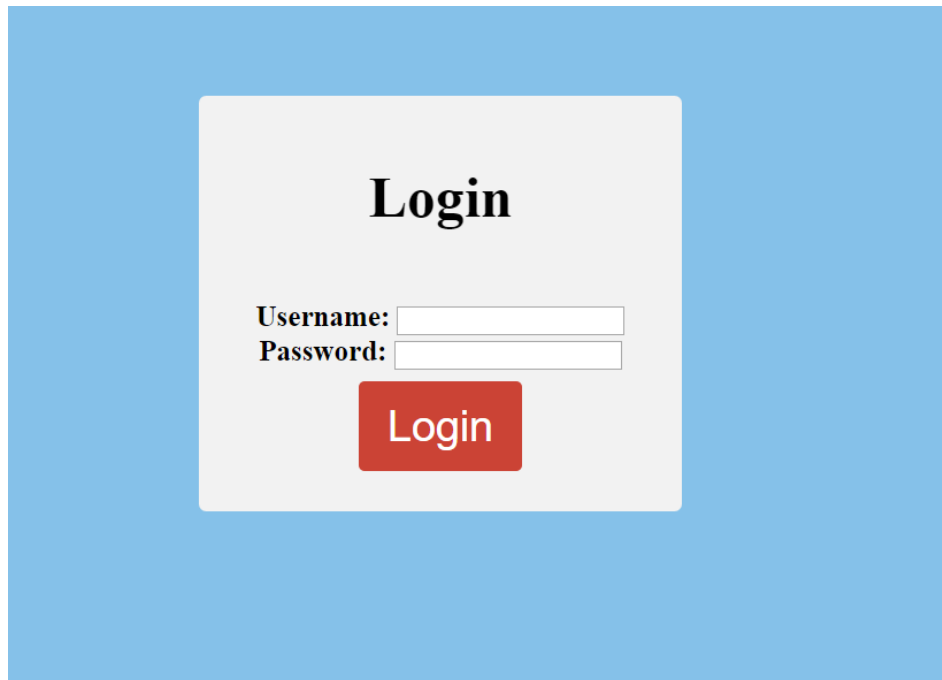
Installation Instructions

- Download the zipped project file (rbanjara_A20361827_P3.zip) from the blackboard and extract the zipped project file.
- If WAMP is not installed locally on your system, please install WAMP server from <http://www.wampserver.com/en/> . After installing WAMP server, start the WAMP server (start all services).
- Now, Move the extracted folder to the www folder of the WAMP system present in the C Drive. Run the web application locally (localhost) from the web browser, preferably Google. The URL in the browser should appear like this:
http://localhost:8080/rbanjara_A20361827_P3/src/index.php

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Insights and Results

- The main reason behind choosing this course is my love and passion for website design and development though I don't like coding much.
- Creating the multiple pages like login.php, index.php, edit.php, create.php and delete.php etc. didn't took much time as the demo was already given by the professor in class lecture.
- User authentication is done first, once the user enters valid user id and password, user gets redirected to index.php page to add new notes or else view already existing notes.



Login

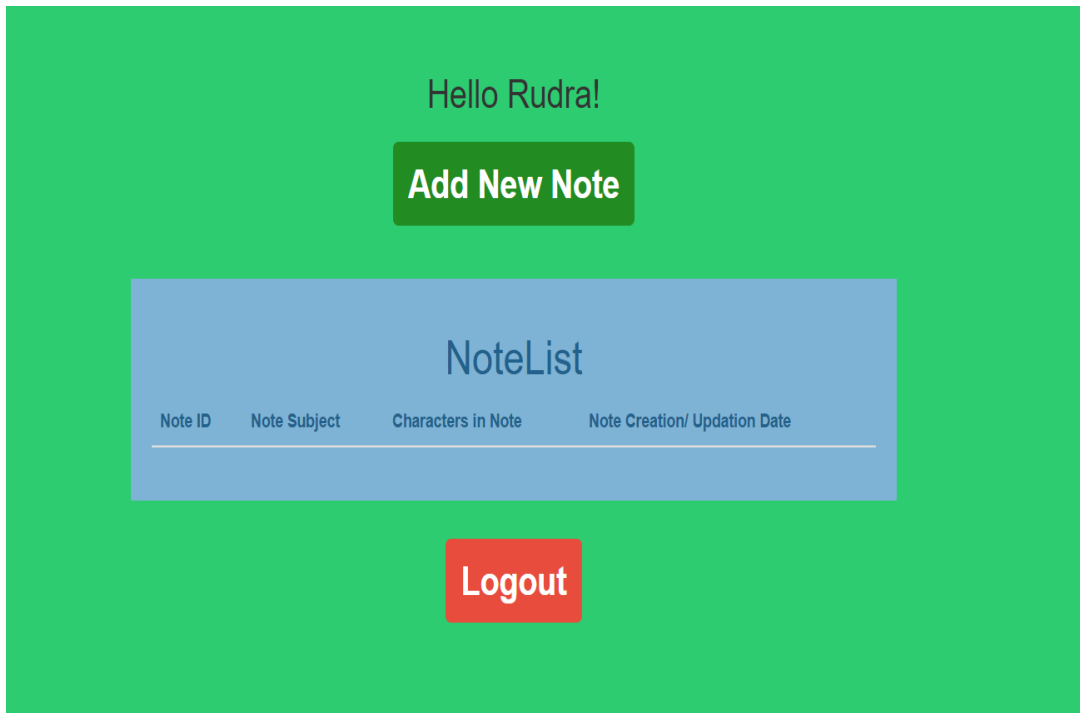
Username:

Password:

Login

- Valid Username and password to logged in is:
Username: Rudra
Password: password
- Upon entering the valid username and password, user gets logged in and directs to index.php page.

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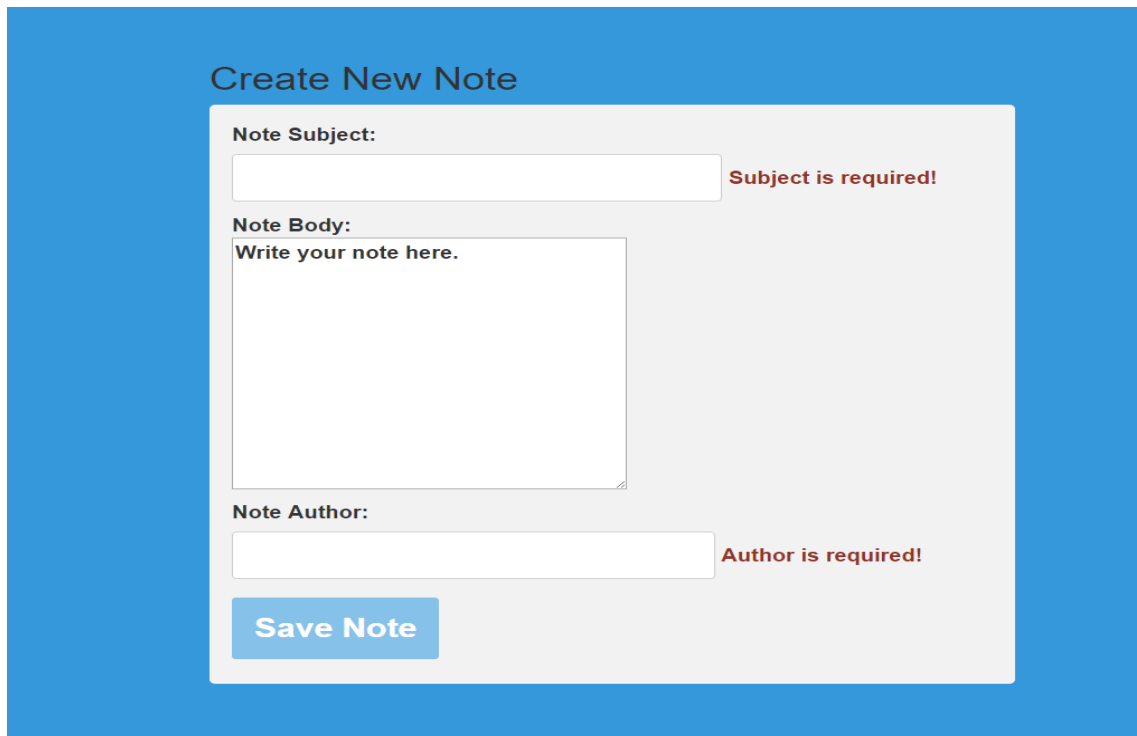


- Index page appears with the list of notes created by the user with few details of the created notes. Also, there's a button, clicking on it user is able to create a new note.
- Clicking on Add New Note button to create a new note:

A screenshot of a "Create New Note" form. The form is set against a blue background. It has a title "Create New Note" at the top. Below the title, there are three input fields: "Subject:" (a single-line text box), "Note:" (a multi-line text area with the placeholder text "Write your note here."), and "Author:" (a single-line text box). At the bottom of the form is a blue button labeled "Save Note".

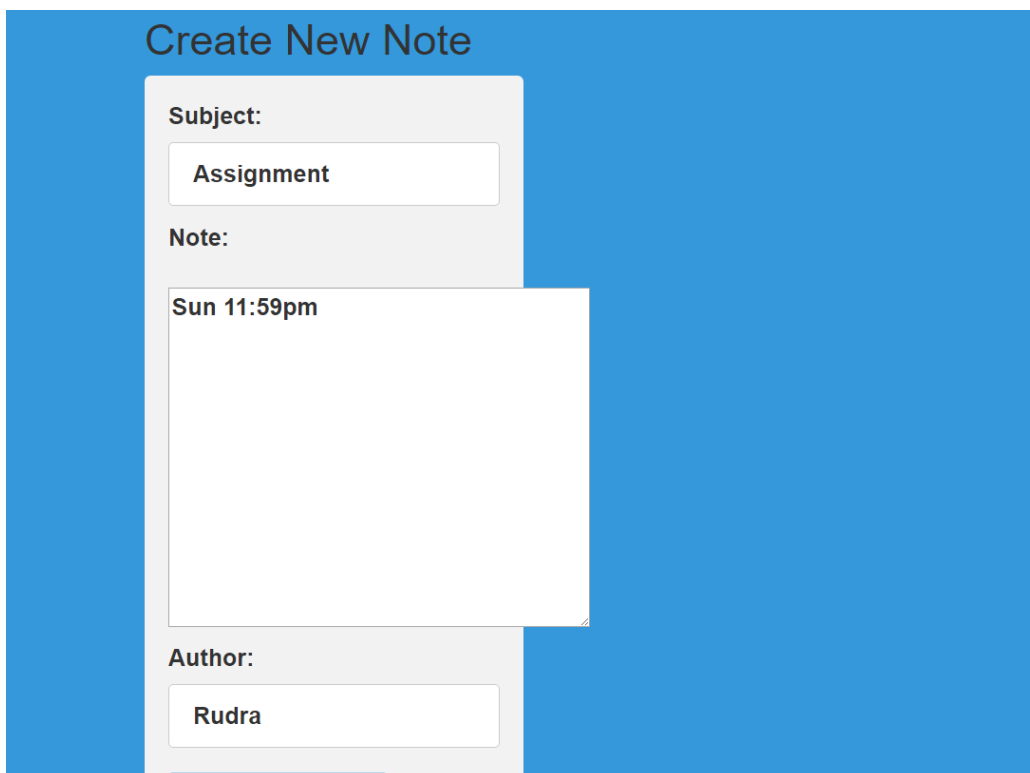
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- Fill in the details to create a note, Subject and Author is a mandatory text field, if not entered by the user throws an error.



The screenshot shows a web form titled "Create New Note" on a blue background. The form is a light gray box containing three input fields and a "Save Note" button. The "Note Subject:" field is empty, and a red error message "Subject is required!" is displayed to its right. The "Note Body:" field is a text area with the placeholder text "Write your note here." The "Note Author:" field is empty, and a red error message "Author is required!" is displayed to its right. The "Save Note" button is a blue rectangle with white text.

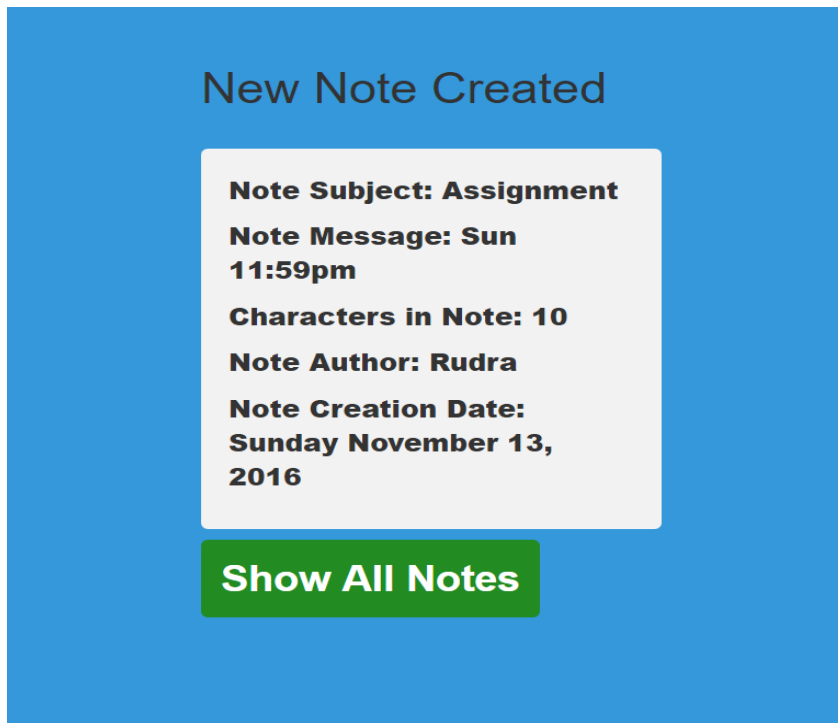
- After entering all the details of note, click on Save Note button.



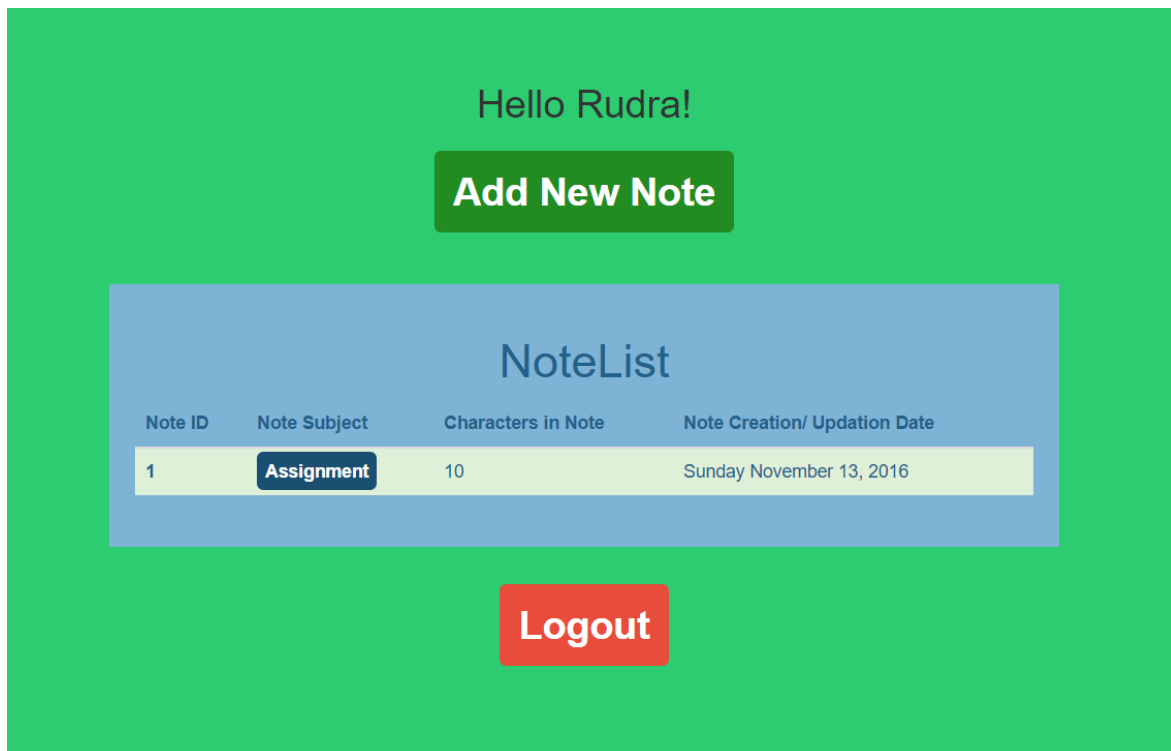
The screenshot shows the same "Create New Note" form, but now the fields are filled. The "Subject:" field contains the text "Assignment". The "Note:" field contains the text "Sun 11:59pm". The "Author:" field contains the text "Rudra". The "Save Note" button is still visible at the bottom of the form.

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- After clicking on the Save Note button, the page redirects to create.php page where the user is able to see all the details of the created note.

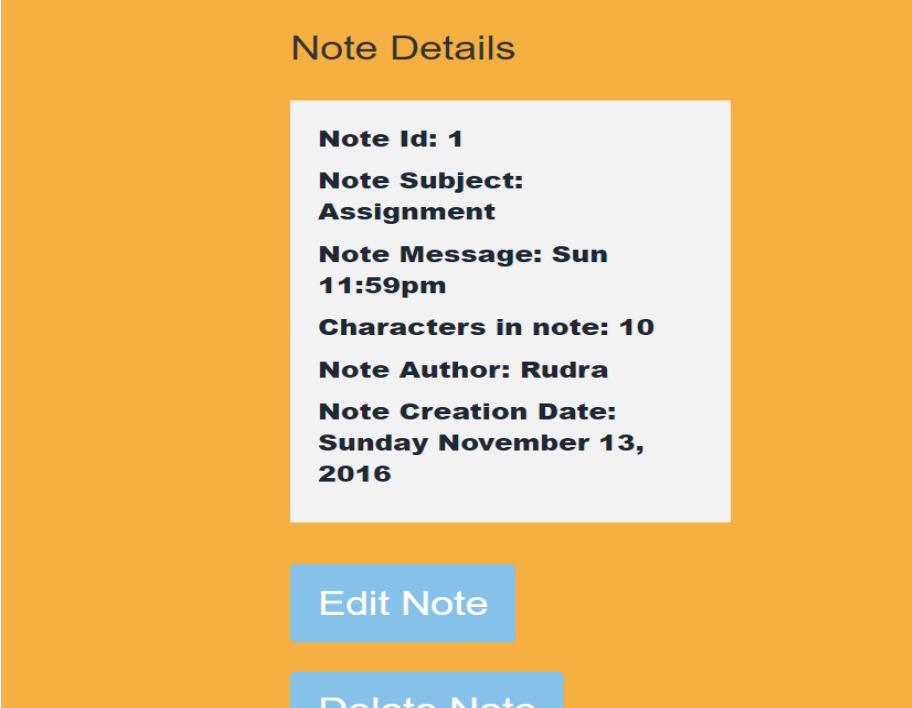


- Click on the Show All Notes button to view all the created notes.



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- When the user wants to view the details of the note created, by clicking on the Note Subject link, user will be redirected to the page show.php to show the details of the selected note by the help of GET parameter.



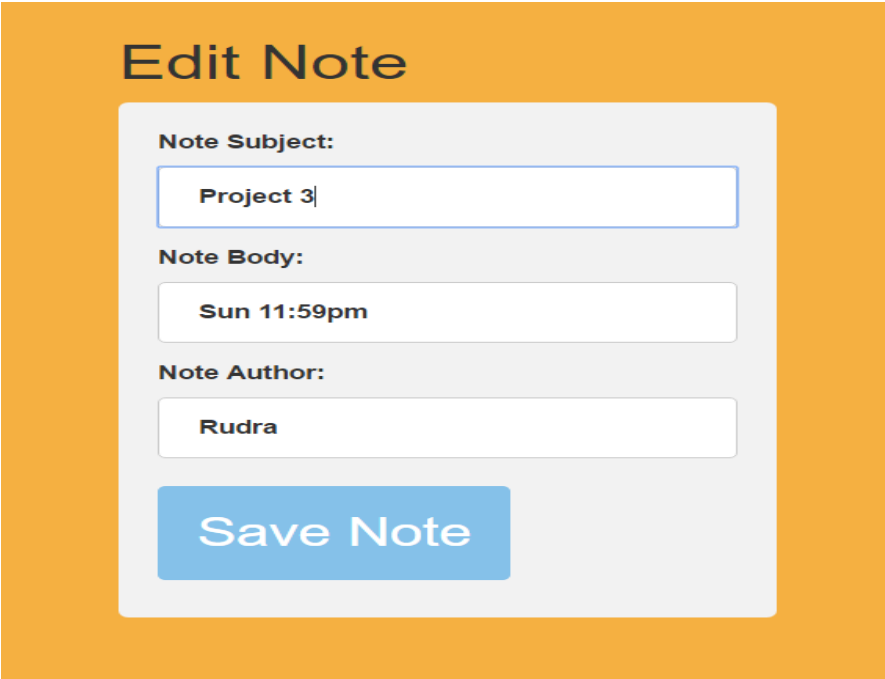
Note Details

Note Id: 1
Note Subject: Assignment
Note Message: Sun 11:59pm
Characters in note: 10
Note Author: Rudra
Note Creation Date: Sunday November 13, 2016

Edit Note

Delete Note

- If user wants to edit/update the note, click on Edit Note button.



Edit Note

Note Subject:
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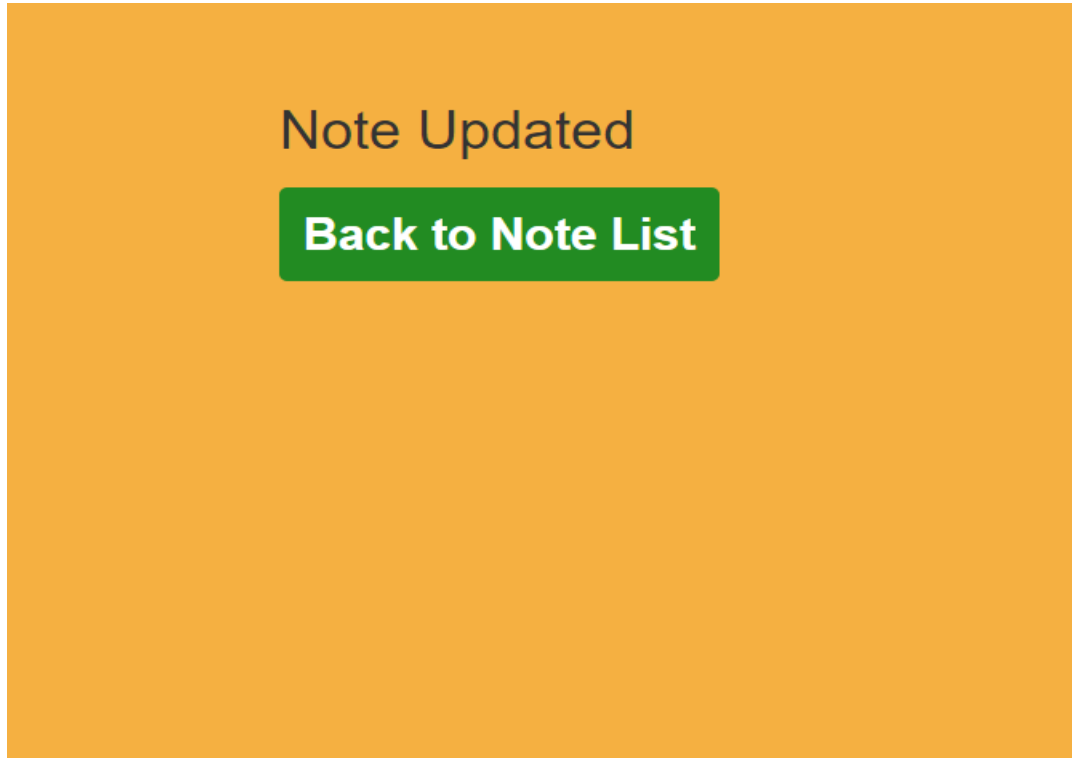
Note Body:
Sun 11:59pm

Note Author:
Rudra

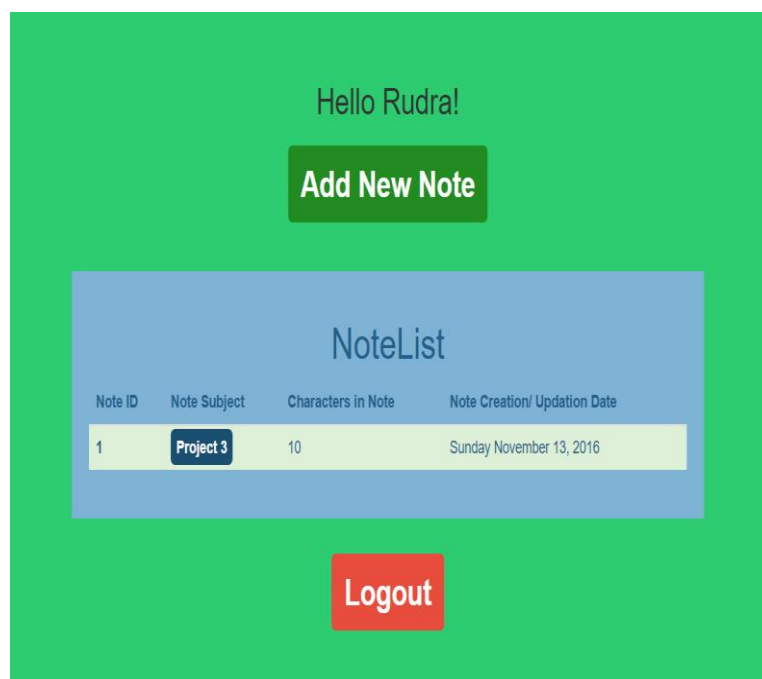
Save Note

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- Once the note is edited successfully, after user clicks on the Save Note button, the user gets a confirmation of updated note.

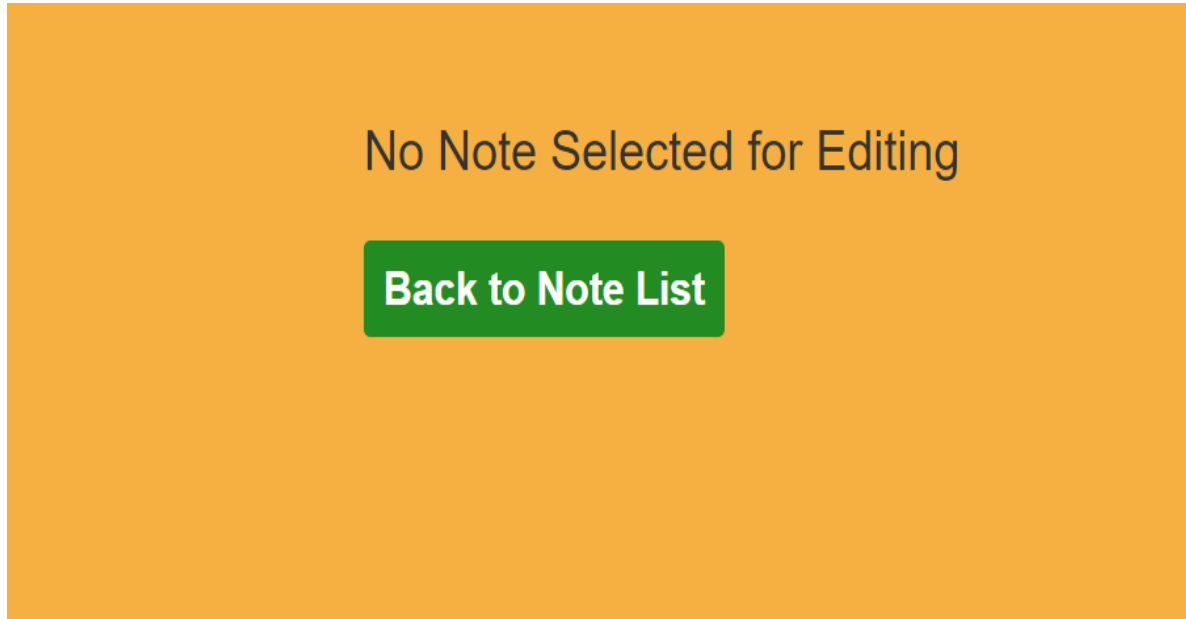


- On clicking “Back to Note List” user is redirected to main page i.e. index.php and user can view the changes done to the note.

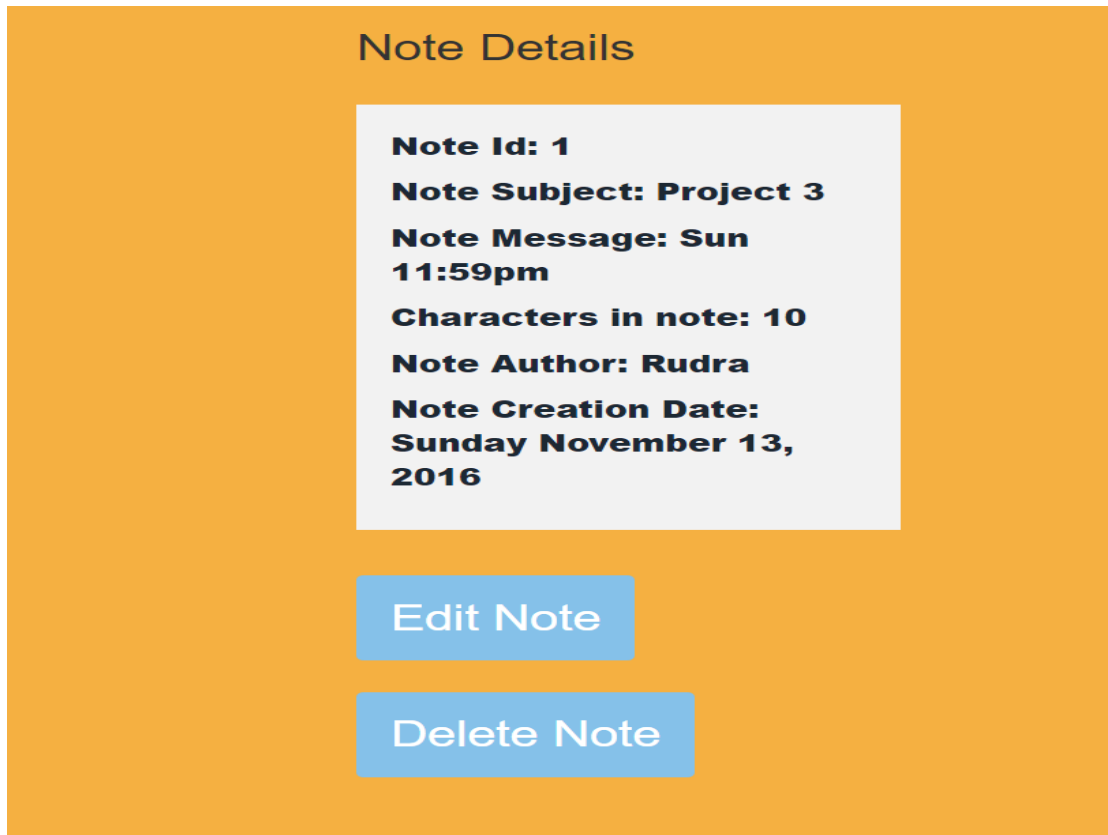


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- If no note is selected for editing, click on Back to Note List button to view the list of notes created.



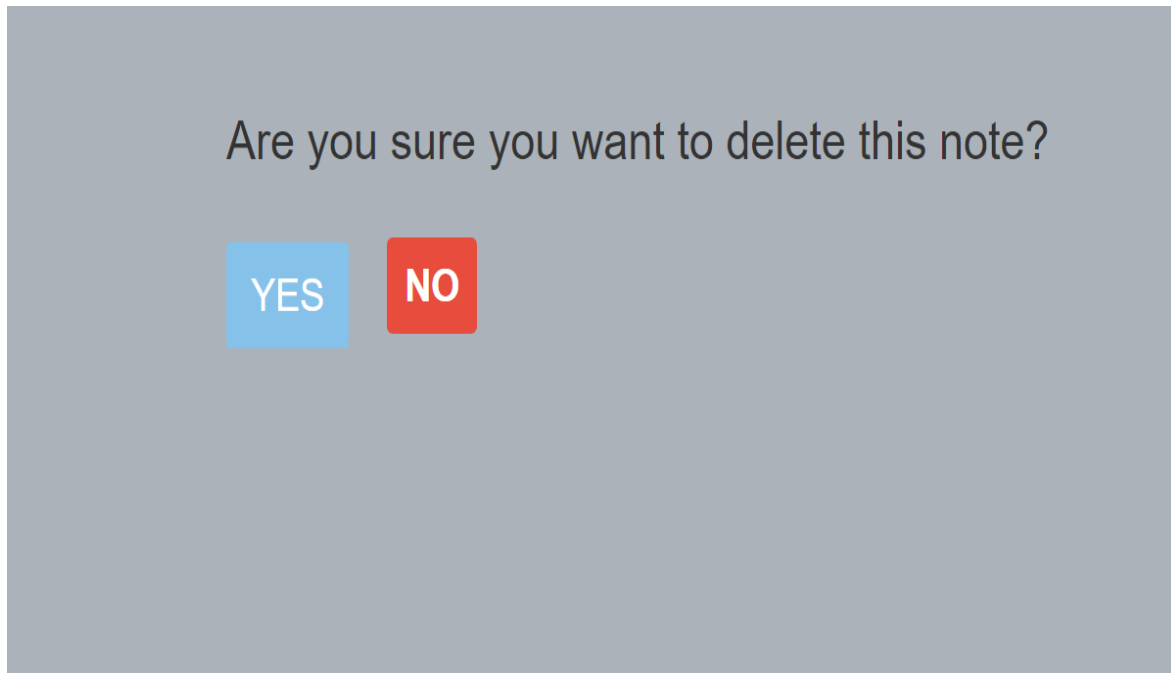
- If the user wants to delete the created note, the user should select the note, and then click on the Delete Note button.



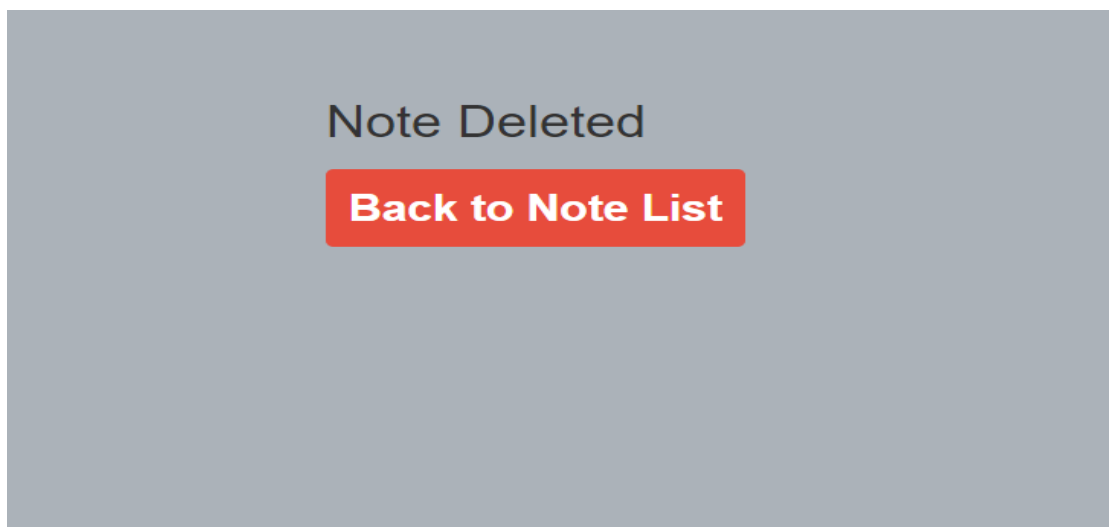
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- Once the user clicks on the Delete Note button, a confirmation appears, whether to delete the note or not, If YES then delete the note, if NO then redirected to the show.php page.

If user wants to delete the note, click on YES button, afterwards gives confirmation of note deletion.



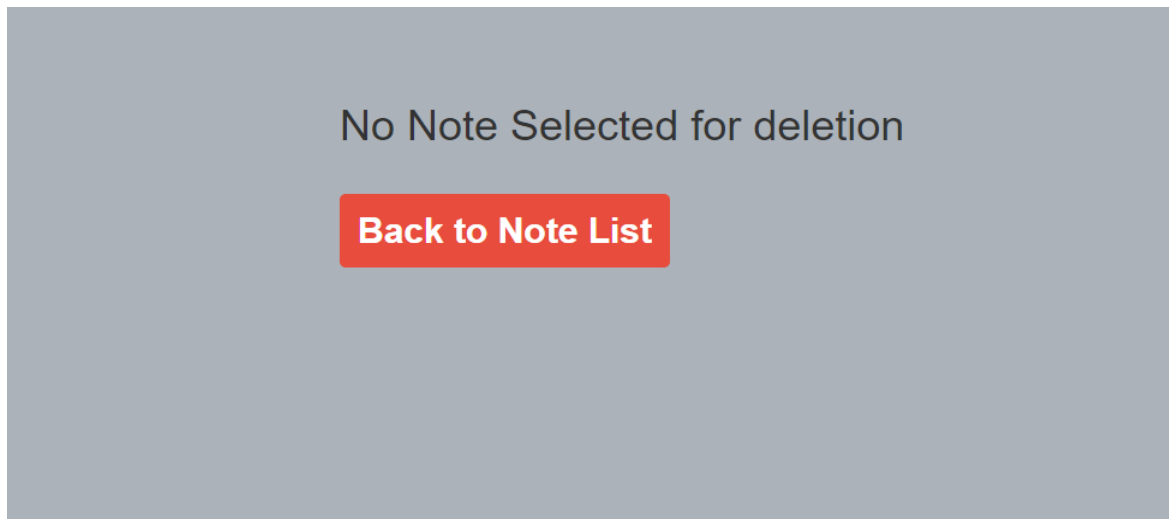
- Note deletion confirmation, after clicking on YES button.



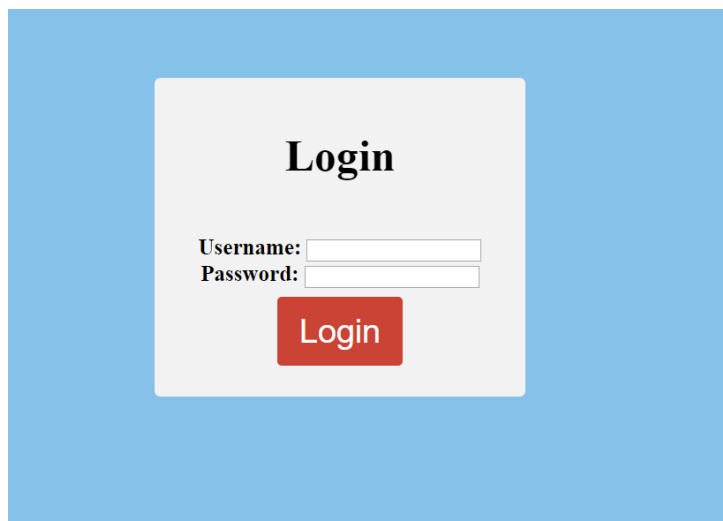
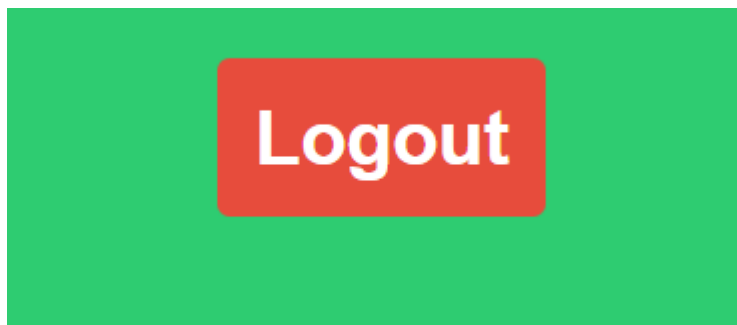
- If user selects NO button, user gets redirected to show.php page.

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- If, no note selected for deletion.



- If user want to logout, click on logout button present on the bottom of index.php page. Once the user clicks on logout button, user gets logged out and then gets redirected to login page.



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- I faced few problems at the time of database connection. I got few fatal errors and warnings but I went through multiple articles to get errors resolved.
- During the development of the project, the most difficult task for me was to create a confirmation page for the deletion of the note as it took time to give a control structure to the PHP logic for deletion. I went through couple of websites to figure out the problem.
- Styling the pages were great fun to me. I like to play with CSS stuffs.
- Last but not the least, it was a great learning experience for me, my interest in the field of website design and development has been grown day by day and still I want to learn more.

References

- ITMD 562 Class lecture videos and demo given by the Prof. Brian Bailey.
- http://www.w3schools.com/w3css/w3css_tables.asp
- <http://htmlcolorcodes.com/>
- <http://stackoverflow.com/questions/14470569/php-counting-characters-in-string>
- http://www.w3schools.com/css/css_form.asp
- <http://v4-alpha.getbootstrap.com/components/buttons/>
- <http://stackoverflow.com/questions/4575150/textarea-character-limit-by-javascript-php>

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