**RANI CHANNAMMA UNIVERSITY.BELAGAVI**



**B.L.D.E. Association’s Commerce, B.H.S Arts**

**&T.G.P. Science College, Jamkhandi.**

BCA PROGRAMME

**A PROJECT ON iNotes**

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**I . INTRUDUCTION**

iNotes is a web application where users can add and save their notes. It performs CRUD (Create Read Update Delete) operations. Nowadays students carrying bags and books is too heavy. For that we are made a web application called iNotes.

Finally, a system of good note taking is an important study strategy. Actively listening and taking notes during class/situation increases the retention of the material. Reviewing the notes immediately after class/situation to add additional points or to generate questions for clarification creates opportunity for additional retention and understanding. Effective note taking skills will assist in preparing for exams and future knowledge base of material.

iNotes is very easy to save the notes and we can fetch it anywhere using internet. It requires user must be registered after that he should login then he can insert notes and access his notes anywhere using this web application.

iNotes is specially for those who can’t remember some important notes and data. Usually it is help full for students and workers. It can be used by unemployed people, who can write their important things like grocery items, essential items, food items and any things which they can’t remember. Usually students use this application for writing their class notes and homework and etc.

Note taking is an essential learning skill for college students to implement during and outside of class time. The notes recorded during a class lecture should be compiled of the important facts or ideas presented by the professor. Implementing a system of note taking is important for several reasons. First, the faculty member may be presenting supplemental material not found in your text book but critical for you to learn in order to make a connection to prior knowledge or introduce new material within your textbook. Secondly, the information presented within a lecture may be used for future assessments (quizzes, exams, reflection papers).

Taking notes is not only for students, employees. But it is helpful for any other human being for self reminder or to make proper use of it. In this application users insert their data and special feature like text editing. Here user can edit their previous notes and data. It is one of the most secure applications. Here in this application no one can access data of any others. Only particular user means who registered for this application that user only can access his data and notes.

Depending on the type of class and personal learning style, you will develop your own method of taking notes. Here are some guidelines and methods to assist with the process:

• Date your notes

• Keep the objective/theme of the class in mind

• Record notes in your own words

• Make your notes brief

• If you fall behind, stop.

Make a mark in your notes, listen for a few minutes until you feel caught up, then begin taking notes again. It is better to listen and get the information later.

Users simply have to register and then have to login. After successful login they will be redirected to a new page where they can insert notes. And this application provides user to:

* Add the note
* Edit the previous note
* Delete the note
* Search the note
* Save the note

**II. THE PROPOSED SYSTEM**

**Challenges faced by iNotes:-**

* **Managing iNotes:-** In ancient days , peoples are have a lot of problems about remembering their important events and things. Because of this we are made a particular web-application, by this peoples can remember their precious events and things. Here users can systematically write their or insert their notes and data. Also edit their data and notes. After that he should save. By this he can access his notes and data, wherever he is , whenever he wants.

### Keeping retention- User retention is one of the crucial factors for sustainability. Many notes making applications failed to do well when it comes to building and maintaining the relationship with users. Many even don’t have a system to collect users details and even don’t feel the need to do so.

### 

### SOLUTION- To overcome all these problems we are creating a web application. Here we provide

* Note title
* Note description
* Add note
* Edit note
* Delete note
* Save note
* Search previous notes.

Instead of recopying your notes, record yourself reviewing what you wrote. Speaking out loud is an interactive process that leads to a more in depth understanding. Additionally, you will have a recording that can be played back

Additional Resources:

<https://www.byui.edu/academic-support-centers/study-skills/study-skills-videos/note-taking>

Notes taking applications

|  |  |  |
| --- | --- | --- |
| names | Description | Compatible devices |
| Evernote | For note-taking, research, creating to-dos, lists and attaching images, and PDF's. Instantly synchronizes from computer to smart phone, tablet and the web | iOS and Android compatible. |
| Dropbox | Free service that lets you store your photos, docs, and videos in the cloud and share them easily. Synchronizes from computer to smartphone, tablet and the web.. | iOS and Android compatible. |
| Awesome Note | Note-taking application and to do manager that allow you to combine notes with to-do flexibility | iOS and Android compatible. |
| Inspiration | App for mind maps and graphic organizers to help you: brainstorm and visualize ideas with maps and diagrams; organize thoughts and information; make sense of complex concepts and projects | iOS and Android compatible. |
| Simple Mind | Mind mapping tool that turns your iPad, iPhone or iPod Touch into a brainstorming, idea collection and thought structuring device. | iOS and Android compatible. |
| Coggle | Mapping tool allows users several advanced features to diagram information and use it for collaborative aspects project management, report writing, and just brainstorming. | iOS and Android compatible. |
| Noteability | Note-Taking app that allows you to create, illustrate, outline, annotate, record, capture photos. Automatic cloud synchronizing to iPhone and iPad. | iOS and Android compatible. |
| Notesplus | Note-Taking app that allows you to type, draw or record notes. Import and annotate and highlight on PDF's. Easily allows for exporting to various outlets. | iOS and Android compatible. |
| iAnnotate PDF | PDF document reader that allows for reading, annotating and sharing PDF documents, Word/PowerPoint files and images. | iOS and Android compatible. |
| Adobe Acrobat Reader | PDF document reader app that allows for reading and annotating PDF's across various platforms. | iOS and Android compatible. |
| Smart Pen | A smart pen that synchronizes handwritten notes with recorded audio and converts them into digital format | iOS and Android compatible. |
| Digital Voice Recorder | Digital voice recorders convert sound into a digital file that can be moved from one electronic device to another, played back by a computer, tablet or smartphone and stored as a digital file. | iO  S and Android compatible. |

**III. System Requirements Specification:**

**Advantages of our project-**

* Improves focus and attention to detail.
* Promotes active learning.
* Store all notes and important information digitally , usually in cloud based storage system.
* Type, write and draw notes on the device of choose just as a one who using pen and paper.
* Add files and their notes to enrich the meaning and the context.
* Collaborate and share notes with others instantly and in real time.
* **Professor Scenario:** The course notes are recycled from term to term. Updates can be made easily since they are stored digitally within notability.
* Responding to student questions via emails is easier and faster using notability, especially with questions that require problems solving.
* **Research Scenario:** In Research settings, a note taking application proves the abiliy to compile raw files, data, and citations from various sources. In addition , a note taking application can allow you to store ,organize, add footnotes and provide context to project to project notes easily.

**IV. Modules**

**User Model :**

* Login to portal
* Place the order
* Add products to cart
* Search the product
* Gives feedback

<?php

$insert = false;

$update = false;

$delete = false;

// connect to database

$conn = mysqli\_connect("localhost","root","","notes");

// die if connection is not successful

if(!$conn){

  die("sorry we failed to connect: ".mysqli\_connect\_error());

}

if (isset($\_GET['delete'])){

  $slno = $\_GET['delete'];

  $delete = true;

  $sql = "DELETE FROM `notes` where `slno` = $slno";

  $result = mysqli\_query($conn,$sql);

}

if($\_SERVER['REQUEST\_METHOD'] == "POST"){

  if(isset($\_POST['slnoEdit'])){

    // update record

    $slno = $\_POST["slnoEdit"];

    $title = $\_POST["titleEdit"];

    $description = $\_POST["descriptionEdit"];

    $sql = "UPDATE `notes` SET `title` = '$title' , `description` = '$description' WHERE `notes`.`slno` = $slno";

    $result = mysqli\_query($conn, $sql);

    if($result){

      $update = true;

    }

    else{

      echo "not updated";

    }

  }

  else{

    $title = $\_POST["title"];

    $description = $\_POST["description"];

    // inserting data into database

    $sql = "INSERT INTO `notes` (`title`, `description`) VALUES ('$title', '$description')";

    $result = mysqli\_query($conn, $sql);

    if($result){

      $insert = true;

    }

    else{

      echo "The note was not inserted successfully because of this error----->".mysqli\_error($conn);

    }

  }

}

?>

<!doctype html>

<html lang="en">

<head>

  <!-- Required meta tags -->

  <meta charset="utf-8">

  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

  <!-- Bootstrap CSS -->

  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"

    integrity="sha384-B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvF6L/Z6nronJ3oUOFUFpCjEUQouq2+l" crossorigin="anonymous">

  <!-- Option 1: jQuery and Bootstrap Bundle (includes Popper) -->

  <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"

    integrity="sha384-DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"

    crossorigin="anonymous"></script>

  <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/js/bootstrap.bundle.min.js"

    integrity="sha384-Piv4xVNRyMGpqkS2by6br4gNJ7DXjqk09RmUpJ8jgGtD7zP9yug3goQfGII0yAns"

    crossorigin="anonymous"></script>

  <!-- CSS and JQuery CDN'S of data table  -->

  <link rel="stylesheet" href="//cdn.datatables.net/1.10.25/css/jquery.dataTables.min.css">

  <script src="//cdn.datatables.net/1.10.25/js/jquery.dataTables.min.js"></script>

  <title>iNotes</title>

</head>

<style>

  \* {

    margin: 0px;

    padding: 0px;

  }

  body {

    width: 99vw;

    height: 140vh;

    background-image: linear-gradient(rgba(0, 0, 0, 0.65), rgba(0, 0, 0, 0.65)), url("./images/wal4.jpg");

    position: absolute;

    background-size: cover;

    background-position: center;

  }

  .color {

    font-weight: bold;

  }

  .color a {

    color: oldlace;

  }

  h2::first-letter {

      color: aqua;

    }

</style>

<body>

  <!--Edit Modal -->

  <div class="modal fade" id="editModal" tabindex="-1" aria-labelledby="editModalLabel" aria-hidden="true">

    <div class="modal-dialog">

      <div class="modal-content">

        <div class="modal-header">

          <h5 class="modal-title" id="editModalLabel">Edit this Note</h5>

          <button type="button" class="close" data-dismiss="modal" aria-label="Close">

            <span aria-hidden="true">&times;</span>

          </button>

        </div>

        <form action="homepage.php" method="POST">

          <div class="modal-body">

            <input type="hidden" name="slnoEdit" id="slnoEdit">

            <div class="form-group">

              <label for="title">Note Title</label>

              <input type="text" class="form-control" id="titleEdit" name="titleEdit" aria-describedby="emailHelp">

            </div>

            <div class="form-group">

              <label for="description">Note Description</label>

              <textarea class="form-control" id="descriptionEdit" name="descriptionEdit" rows="3"></textarea>

            </div>

          </div>

          <div class="modal-footer d-block mr-auto">

            <button type="button" class="btn btn-secondary" data-dismiss="modal">Close</button>

            <button type="submit" class="btn btn-primary">Save changes</button>

          </div>

        </form>

      </div>

    </div>

  </div>

  <div class="color">

    <nav class="navbar navbar-expand-lg" style="background-color: aqua;">

      <a class="navbar-brand" href="#"> iNotes</a>

      <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent"

        aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">

        <span class="navbar-toggler-icon"></span>

      </button>

      <div class="collapse navbar-collapse" id="navbarSupportedContent">

        <ul class="navbar-nav mr-auto">

          <li class="nav-item active mx-4">

            <a class="nav-link" href="homepage.php">Home <span class="sr-only">(current)</span></a>

          </li>

          <li class="nav-item mx-4">

            <a class="nav-link" href="#">AboutUs</a>

          </li>

          <li class="nav-item mx-4">

            <a class="nav-link" href="#">ContactUs</a>

          </li>

        </ul>

        <form class="form-inline my-2 my-lg-2">

          <input class="form-control mr-sm-2" type="search" placeholder="Search" aria-label="Search">

          <button class="btn btn-outline-success my-2 my-sm-0" type="submit">Search</button>

        </form>

      </div>

    </nav>

    <!-- if $insert becomes true then an alert message will apear after a successfull note entry -->

    <?php

      if($insert){

        echo "<div class='alert alert-success alert-dismissible fade show' role='alert'>

        <strong>Success!</strong> Your Note has been inserted successfully.

        <button type='button' class='close' data-dismiss='alert' aria-label='Close'>

          <span aria-hidden='true'>&times;</span>

        </button>

      </div>";

      }

    ?>

    <?php

      if($delete){

        echo "<div class='alert alert-success alert-dismissible fade show' role='alert'>

        <strong>Success!</strong> Your Note has been deleted successfully.

        <button type='button' class='close' data-dismiss='alert' aria-label='Close'>

          <span aria-hidden='true'>&times;</span>

        </button>

      </div>";

      }

    ?>

    <?php

      if($update){

        echo "<div class='alert alert-success alert-dismissible fade show' role='alert'>

        <strong>Success!</strong> Your Note has been updated successfully.

        <button type='button' class='close' data-dismiss='alert' aria-label='Close'>

          <span aria-hidden='true'>&times;</span>

        </button>

      </div>";

      }

    ?>

    <div class="container my-3">

      <h2>Add a Note</h2>

      <form action="homepage.php" method="POST">

        <div class="form-group">

          <label for="title">Add Title</label>

          <input type="text" class="form-control" id="title" name="title" aria-describedby="emailHelp">

        </div>

        <div class="form-group">

          <label for="description">Add Description</label>

          <textarea class="form-control" id="description" name="description" rows="3"></textarea>

        </div>

        <button type="submit" class="btn btn-primary">Add Note</button>

      </form>

    </div>

  </div>

  <!-- to show the all notes in a list -->

  <div class="container my-4">

    <table class="table" id="mytable">

      <thead>

        <tr>

          <th scope="col">Sl No.</th>

          <th scope="col">Title</th>

          <th scope="col">Description</th>

          <th scope="col">TimeStamp</th>

          <th scope="col">Actions</th>

        </tr>

      </thead>

      <tbody>

        <!-- the code that inserts data into the list -->

        <?php

        $sql = "SELECT \* FROM `notes`";

        $result = mysqli\_query($conn, $sql);

        $slno = 0;

        while($row = mysqli\_fetch\_assoc($result)){

          $slno = $slno+1;

          echo "  <tr>

            <th scope='row'>" .$slno. "</th>

            <td>" . $row['title']. "</td>

            <td>" .$row['description']. "</td>

            <td>" .$row['timestamp']. "</td>

          <td>  <button type='submit' class='edit btn btn-primary' id=". $row['slno'].">Edit</button>

                <button type='submit' class='delete btn btn-primary' id=d". $row['slno'].">Delete</button>

          </td>

          </tr>";

        }

        ?>

      </tbody>

    </table>

  </div>

  <script>

    $(document).ready(function () {

      $('#mytable').DataTable();

    });

  </script>

  <script>

    edits = document.getElementsByClassName('edit');

    Array.from(edits).forEach((element) => {

      element.addEventListener("click", (e) => {

        console.log("edit");

        tr = e.target.parentNode.parentNode;

        title = tr.getElementsByTagName("td")[0].innerText;

        description = tr.getElementsByTagName("td")[1].innerText;

        console.log(title, description);

        titleEdit.value = title;

        slnoEdit.value = e.target.id;

        descriptionEdit.value = description;

        console.log(e.target.id);

        $('#editModal').modal('toggle');

      });

    });

    deletes = document.getElementsByClassName('delete');

    Array.from(deletes).forEach((element) => {

      element.addEventListener("click", (e) => {

        console.log("edit");

        slno = e.target.id.substr(1,);

        if (confirm("press a button")) {

          window.location = `homepage.php?delete=${slno}`;

        }

        else {

          console.log("no");

        }

      });

    });

  </script>

</body>

</html>

**7. TESTING**

## **7.1 Introduction:**

Testing is the process of detecting errors. Testing performs a very critical role for quality assurance and for ensuring the reliability of software. The results of testing are used later on during maintenance.

**Testing Objectives**:

The main objective of testing is to uncover a host of errors, systematically and with minimum effort and time. Stating formally, we can say,

* Testing is a process of executing a program with the intent of finding an error.
* A successful test is one that uncovers an as yet undiscovered error.
* A good test case is one that has a high probability of finding error, if it exists.
* The tests are inadequate to detect possibly present errors.
* The software more or less confirms to the quality and reliable standard

**UNIT TESTING**

**MODULE TESTING**

**SUB-SYSTEM TESING**

**SYSTEM TESTING**

**ACCEPTANCE TESTING**

**Component Testing**

**Integration Testing**

**User Testing**

* **The steps involved in Testing are:**

1. **UNIT TESTING:**

Unit testing focuses verification effort on the smallest unit of software design, the module. The unit testing we have is white box oriented and some modules the steps are conducted in parallel. For Example in “TOURISM” Registration Module have Name, Email, Mobile No etc. are the necessary field if user not fill those fields then error message is displayed.

1. **WHITE BOX TESTING**

This type of testing ensures that

* All independent paths have been exercised at least once
* All logical decisions have been exercised on their true and false sides
* All loops are executed at their boundaries and within their operational bounds
* All internal data structures have been exercised to assure their validity.

To follow the concept of white box testing we have tested each form .we have created independently to verify that Data flow is correct, All conditions are exercised to check their validity, All loops are executed on their boundaries. In our project all forms are link & depend upon each other so if one form is failed to perform some operation then it will be affected to other forms.

**3. BLACK BOX TESTING**

Black box testing focuses on the functional requirement of the software. It enables to derive sets of input conditions that will fully all requirements for a program. The Black box testing finds almost all errors. If finds some interface errors and errors in accessing the databases and some performance errors. In black Box Testing we mainly two techniques. Equivalence partitioning the boundary volume analysis technique. In our project admin module act as a black box because it finds all errors while performing operation like editing, updating, modifying the data.

**4. INTEGRATION TESTING:**

In This project one module integrate with another module i.e. In Admission form main focus on Admission No, this number will integrated with all form.

Integration testing is systematic testing for construction the program structure while at the same time conducting tests to uncover errors associated with in the interface. The objective is to take unit tested modules and build a program structure**.** All the modules are combined and tested as a whole**.** Here correction is difficult because the isolation of cause is complicate by the vast expense of the entire program. Thus in the integration testing stop**,** all the errors uncovered are corrected for the text testing steps**.**

**5. CODE TESTING:**

Specification testing is done to check if the program does with it should do and how it should behave under various condition or combinations and submitted for processing in the system and it is checked if any overlaps occur during the processing.

This strategy examines the logical of the program. Here only syntax of the code is tested. In code testing syntax error are corrected, to ensure that the code is perfect.

**6. VALIDATION TESTING:**

At the conclusion of integration testing software is completely assembled as a package, interfacing errors have been uncovered and corrected and a final series of software tests begins**,** validation test begins**.** Validation test can be defined in many ways**.** But the simple definition is that validation succeeds when the software function in a manner that can reasonably expected by the customer. After validation test has been conducted one of two possible conditions exists.

## **System Testing:**

System testing is testing conducted on a complete integrated system to evaluate

The systems compliance with its specified requirements. System testing takes, a sits input, all of the integrated components that have password integration tasting.

* + 1. **Test Conducted:**

**Test Conducted of the ADMIN module for login:**

|  |  |
| --- | --- |
| Test Case No | 1 |
| Module | Admin |
| User Form | Login Form |
| Input | Enter E-mail and password  Admin E-mail Admin Password  Correct Correct |
| Excepted Result | Successful login |
| Test Result | Tested-Ok |

|  |  |
| --- | --- |
| Test Case No | 2 |
| Module | Admin |
| User Form | Login Form |
| Input | Enter E-mail and password  Admin E-mail Admin Password  Correct wrong |
| Excepted Result | Email-id or password were wrong |
| Test Result | Tested-Ok |

|  |  |
| --- | --- |
| Test Case No | 3 |
| Module | Admin |
| User Form | Login Form |
| Input | Enter E-mail and password  Admin E-mail Admin Password  wrong Correct |
| Excepted Result | Email-id or password were wrong |
| Test Result | Tested-Ok |

**Test Conducted of the User module for login:**

|  |  |
| --- | --- |
| Test Case No | 1 |
| Module | User |
| User Form | Login Form |
| Input | Enter E-mail and password  Admin E-mail Admin Password  Correct Correct |
| Excepted Result | Successful login |
| Test Result | Tested-Ok |

|  |  |
| --- | --- |
| Test Case No | 2 |
| Module | User |
| User Form | Login Form |
| Input | Enter E-mail and password  Admin E-mail Admin Password  wrong Correct |
| Excepted Result | Email-id or password were wrong |
| Test Result | Tested-Ok |
| Test Case No | 3 |
| Module | User |
| User Form | Login Form |
| Input | Enter E-mail and password  Admin E-mail Admin Password  Correct wrong |
| Excepted Result | Email-id or password were wrong |
| Test Result | Tested-Ok |

**8.SUMMARY**

**9.CONCLUSIONS**

Whatever approach you use to make notes during a class session, remember that you must still engage in actively learning those notes as soon as possible and regularly during an entire class. Collecting even excellent notes for several weeks and expecting to learn them right before the exam is a recipe for failure. Learning, like exercising for fitness, happens over time, not all at once!

Your instructors can teach you, but no one else can learn for you. That job is yours and yours alone. Preparing for, taking, and studying your notes is an essential part of becoming a successful learner and getting the most out of the time and effort you spend in class. Make the end of this course the beginning of your commitment to making more effective notes. The rewards will be worth the effort!

**10.REFERENCES**