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**duBoard Test Document**

The duBoard website will be tested in the following ways:

Specifications:

1. Login Page
   1. The website is accessible via <http://duboard.loras.edu/>
   2. The page loads the login page that includes the duBoard logo, login box that asks for username and password.
   3. The login box asks for username and password
      1. After clicking “Submit” button, it takes the user to the students’ main page/teacher’s main page depending on the user authentication. If the username and password entered is not recognized by the database, it takes you to a page that says “Please enter correct username and password” and redirects back to the Login page.
2. Students’ Main Page
   1. A new page will display with the duBoard logo as header at the top, navigation of classes taken by the student and the overview of the all the current classes.
   2. Each class name is a button that takes the user to the respective class page.
   3. There is also a Logout button at the top right hand side that allows the user to logout by directing the page to login page.
3. Class Page
   1. This page consists of the header logo, navigation bars that take you to respective charts and graphs, the class navigation buttons and the category pie chart.
   2. There is also a Logout button at the top right hand side that allows the user to logout by directing the page to login page.
   3. After clicking on any of the class, the first thing that shows up in large container box to the right is the category chart of the class that is being selected.
      1. Category Chart- It displays the pie chart of the percentage of weights of each category out of the total points for a specific class. The pie chart shows the category distributed in that class in percentage. Different categories are represented by different colors. It also shows the index that lists the category name corresponding to the color used in the pie chart. When the mouse is hovered over a section of the colored pie-chart, it displays the category name with respect to the percentage of weight assigned to that category.
      2. Overview Graph- It displays the percentage of grade scored by the student in that class. It is represented using a bar graph which shows the percentage of grade gained by the student in y-axis for every class the student is enrolled along x-axis. The graph starts with 0 as the initial value. When the mouse is hovered over each section of the bar, it displays the class id name with respect to the percentage of grade scored by the student.
      3. Test Graph- It displays the scores gained by the student in y-axis for a specific test that is graded along x-axis in percentage. The graph for representing the tests is colored in blue. The graph starts with 0 as the initial value. When the mouse is hovered over each section of the bar, it displays the test name with respect to the percentage of grade scored by the student in those tests.
      4. Homework Graph- It displays the scores gained by the student in y-axis for a specific homework that is graded along x-axis in percentage. The graph for representing the homework is colored in blue. The graph starts with 0 as the initial value. When the mouse is hovered over each section of the bar, it displays the homework name with respect to the percentage of grade scored by the student in those homework assignments.
      5. GPA Calculator – It displays a form with columns to select the grade of a class and type in the number of credit hours for the class. The form defaults to six classes in one semester and you can add classes to the semester and add more semesters.
4. Teachers’ Main Page
   1. A new page will display with the duBoard logo as header at the top, navigation of classes taught by the teacher and the weather forecast.
   2. Each class name is a button that takes the user to the respective class page.
   3. There is also a Logout button at the top right hand side that allows the user to logout by directing the page to login page.
5. Class Page
   1. This page consists of the header logo, navigation bars that take you to respective editing pages; a chart of minimum, average, and maximum scores; and the class navigation buttons.
   2. There is also a Logout button at the top right hand side that allows the user to logout by directing the page to login page.
   3. After clicking on any of the class, the first thing that shows up in large container box to the right is the scores chart of the class that is being selected.
      1. Scores – After a category type is selected in a drop down menu, it displays the minimum, average, and maximum scores gained by the students in y-axis for each specific assignment in the category that is graded along x-axis in percentage. The bars for representing the minimum scores are colored in blue. The bars for representing the average scores are in red. The bars for representing the maximum scores are colored in orange. The graph starts with 0 as the initial value. When the mouse is hovered over each section of the bar, it displays the assignment name with respect to the percentage of the minimum, average, and maximum scores respectively for the specific assignment.
      2. Categories – It displays a chart with the current categories for the specific class. In the chart are columns for selecting a category, the category title, weight percentage for the category, the category type of exam/test or homework or other, and the estimated number of assignments for the category. There are buttons to add, delete, and update categories and rows under the table to add a new category with a name, weight, type, and number of assignments.
      3. Assignments – It displays a chart with the current assignments for the specific class. In the chart are columns for selecting an assignment, the assignment title, the assignment due date, and the category type as exam/test or homework or other. There are buttons to add, delete, and update assignments and rows under the table to add a new assignment with a name, due date, and category type.
      4. Students – It displays a chart with the students currently in the class and another with students not in the class. The drop chart has a column for selecting a row to drop, the student id, and the first and last name of the students with a button to delete the student from the class. The add chart has a column for selecting a row to add, the student id, and the first and last name of the students with a button to add the student to the class.