Project 2 Proposal: Psychology Test

Description of your project:

This project will be testing a common psychology experiment by Nisbett and Wilson, studying influences on people's preferences. I will also be testing common marketing strategies to see if they work. I will not describe these here since this plan will go on my portal and risk giving away the secrets, but I can email you the ideas if you want.
A few, very simple pages will display, prompting the user for their choice or preference, their input will be stored in a database, and they will continue onto the next choice. After they have finished, all the responses from the database will be combined and displayed in come graphical formation, and testing whether the psychological tests were correct in their assumptions or not

Reference: Nisbett, R.E., and Wilson, T.D. "Telling more than we can know: Verbal reports on mental processes." Psychological Review, 84 (1977), pp. 231-259

Pseudocode: High Level:

```
start at first question
    display the question and form
user presses submit
    stores their answer in database
    goes to the next question
repeat until done
if last question, display information about test
display graphs
```
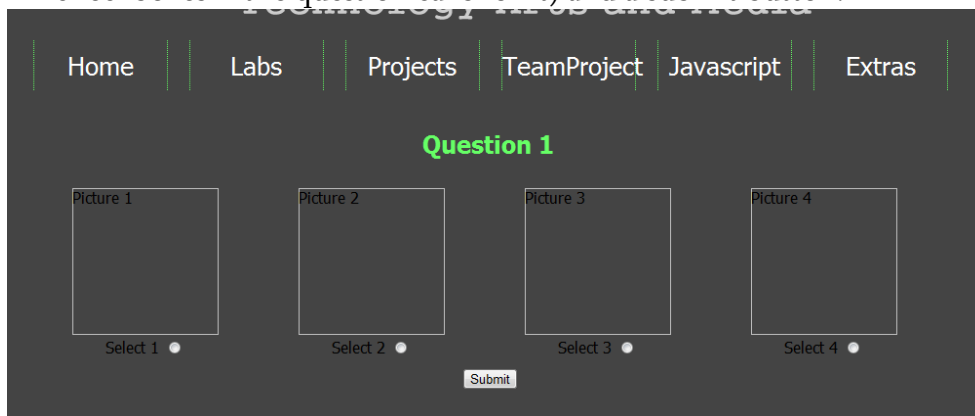
Pseudocode: Low Level:

```
$action = $_GET[action] ;
function router($action = null)
    switch($action)
    case submit_questionX: $this->submit_questionX; break;
        case graphs: $this->displayGraphs; break;
**all questions will be in functions like this
function questionX
    html stuff
    form action=<? PHP_SELF?>
        <input type="checkbox" name="questAns" value="1" />
        <input type="hidden" name="questID" value="X" />
        <input type="hidden" name="action" value="submit_questionX" />
        <input type="submit" value="Submit" />
```

```
function submit_questionX
     SQL = insert into ANSWERS values ($_GET['questID'], $_GET['questAns'], date()
     $this->router(next question);
function displayGraph
     $results = SQL = select * from ANSWERS
     $answers = array()
     foreach($results as $rowIndex => $row)
             $answers[$row['QUESTION_ID']] = $row['QUESTION_ANSWER'];
     html display
             Question 1: A: X%  B: Y%  C: Z%
             Question 2: A: X%  B: Y%  C: Z%
```
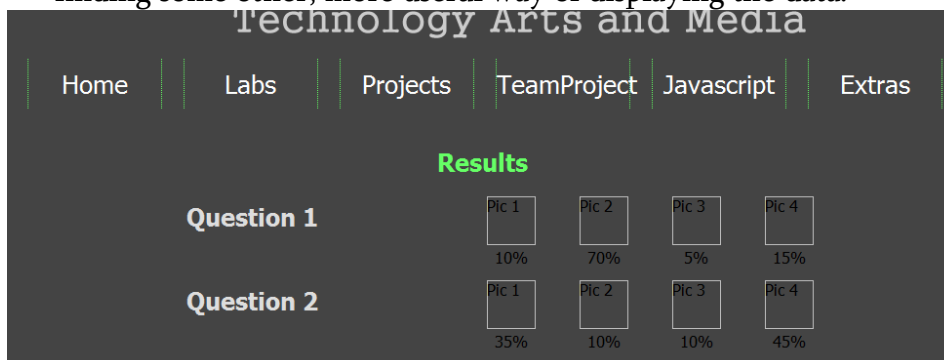
Visual Design Template:

The questions I will ask the user will be one per page with only styling from my surrounding website. It will display the three or four choices, and radio buttons (or checkboxes if the question calls for it) and a submit button.

An example of a question display

The results will then display the proportion of the answers per question. Currently, I have this displaying as percentages, but I have thought about graphing the data, or finding some other, more useful way of displaying the data.

An example of the results display

Brief Description of How You Will Test Your Project:

Since the program will be very functional, I will test each function first and make sure it looks the way I want and is returning the correct information before moving onto the next question. Each question and each set function will be a function call, so there might be up to 20 tests for each of these functions. Since the PHP will all be in one file, it will be important to make sure that each piece is working before moving onto another piece. For simple verification, I will output all parameters passes through $_GET or $_POST variables and echo "here" statements when I enter a new function.