Lecture Overview

‣ 4.1 Student Topic 1 Presentations

‣ 4.2 PDO and CRUD

‣ CRUD Lab

Server Side Languages

Web Design & Development
Day 4

Student Presentations

Topic 1

PDO Connections

DSN: Data Source Name - connection string that tells PDO the type of database to access, where to access it, and other parameters.

```
$user="root";
$pass="root";
$dbh = new PDO('mysql:host=localhost;dbname=test;port=8889', $user, $pass);

// and now we're done; close it
$dbh = null;
```

Once $dbh is instantiated, we can the pass data to/from it.

When you're finished with the database connection, release the object to free resources.

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PDO Reminder

‣ The prepare() method prepares a SQL statement for use by the PDO object.

‣ The bindParam() method substitutes in the placeholder values.

‣ The execute() method then runs the completed SQL statement against the datasource.

Sample PDO Prepared Statement

```
$stmt =
  $dbh->prepare("INSERT INTO REGISTRY (name, value) VALUES (:name, :value)");
$stmt->bindParam(':name', $name);
$stmt->bindParam(':value', $value);

// insert one row
$name = 'one';
$value = 1;
$stmt->execute();

// insert another row with different values
$name = 'two';
$value = 2;
$stmt->execute();
```

Exercise 3.2: PDO Select Data

1. Add to your existing "fruits.php" script, and after the input form, echo out the fruits and colors that are listed in the table.

2. Insert a new record into the database - you should see the new row at the bottom of the page when you postback.

```
$calories = 150;
$color = 'red';
$sth = $dbh->prepare('SELECT name, color, calories
    FROM fruit
    WHERE calories < :calories AND color = :color');
$sth->bindParam(':calories', $calories, PDO::PARAM_INT);
$sth->bindParam(':color', $color, PDO::PARAM_STR, 12);
$sth->execute();
$result = $sth->fetchAll();
print_r($result);
```

PDO Update & Delete

Update Data

```
$name = 'tangerine';
$color = 'orange';
$sth = $dbh->prepare('UPDATE fruit SET color=:color WHERE name = :name');
$sth->bindParam(':name', $name, PDO::PARAM_STR);
$sth->bindParam(':color', $color, PDO::PARAM_STR);
$sth->execute();
```

Delete Data

```
$name = 'tangerine';
$sth = $dbh->prepare('DELETE FROM fruit WHERE name = :name');
$sth->bindParam(':name', $name, PDO::PARAM_STR);
$sth->execute();
```

Questions?

Lab 4: Databases

Refer to FSO Lab4 and Screencast4 for this assignment