

### **Objective**

The objective of this assignment is for you to become familiar with object oriented programming using PHP's standard support for classes.

### **Prerequisites**

- Knowledge in object oriented programming
- Basic programming skill in PHP
- Required **Reading:** [Object Oriented PHP for Beginners](#)
  - You may read from the site or
  - You may download [OOP in PHP.pdf](#)
  - **Optional:** watch the tutorial videos in the given link above.
- Knowledge in CSV (Comma-Separated Values)
  - [Wikipedia: Comma-separated values](#)
- UPCAT Web Form

### **Overview**

Before you proceed with the rest of this section, you should have read and implemented all the *Steps* given in the [Object Oriented PHP for Beginners](#).

### **Required Classes**

A class called *Applicant* will be used to model a single applicant that fills up an UPCAT form. Each time an applicant submits a form an instance of the *Applicant* will be created. The *Applicant's* properties/values will then be appended to *applicants.csv* file as a single row entry.

| <i><b>Applicant</b></i>  |
|--|
| - \$lname<br>- \$fname<br>- \$mname<br>- \$sex<br>- \$dob<br>- ...<br>- \$otherschool<br>- reviewclass   |
| + Applicant(\$lname, \$fname, \$mname, ... , \$otherschool, \$reviewclass)<br>+ <i>Setter functions</i><br>+ <i>Getter functions</i><br>+ save() |

It contains:

- *Properties defined in UPCAT Form Fields*
  - *\$lname, \$fname, ..., \$otherschool, \$reviewclass*
- *Constructor*
  - *Applicant(\$lname, \$fname, \$mname, ..., \$otherschool, \$reviewclass)*
- *Setter and Getter functions for the properties*
- *save()* function
  - stores the object's values in a csv file named *applicants*.

Another class called *ApplicantList* is used to model the list of all the applicants for UPCAT. This will be used to retrieve all applicant entries stored in the *applicants.csv*. For each of the entries it will create an instance of the *Applicant* object. And an *Array* of *Applicants* will be used to store all of the instances that will be created. Also, this will have a name search functionality that finds a match in the *Array* of *Applicants* and returns the *Applicant* object with a corresponding name.

| <b><i>ApplicantList</i></b>  |
|--|
| - \$applicants = new array()   |
| + get_applicants()<br>+ search_applicant(\$name)<br>+ print_applicants() |

It contains:

- *One property: \$applicants (Array of Applicant objects)*
- *get\_applicants() function* for retrieving the contents of the *applicants.csv* file and store it in the *\$applicants* array.
- *search\_applicant(\$name) function* to search for an object in the array of *Applicants* and returns the object associated with it.

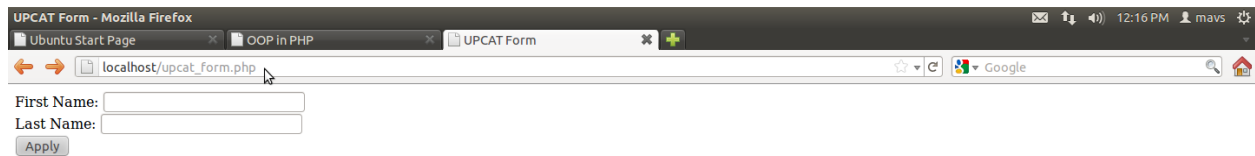
### ***Required Files***

Create the following pages:

```
applicantlist.php
applicants.csv
class_lib.php
index.php
searchapplicant.php
upcat_form.php
```

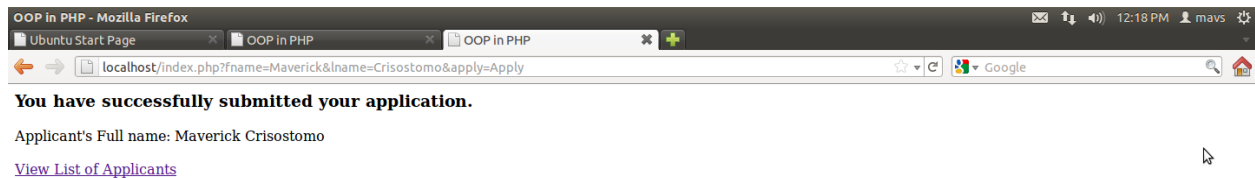
### *upcat\_form.php*

- Contains the input fields that are to be filled up by the user.



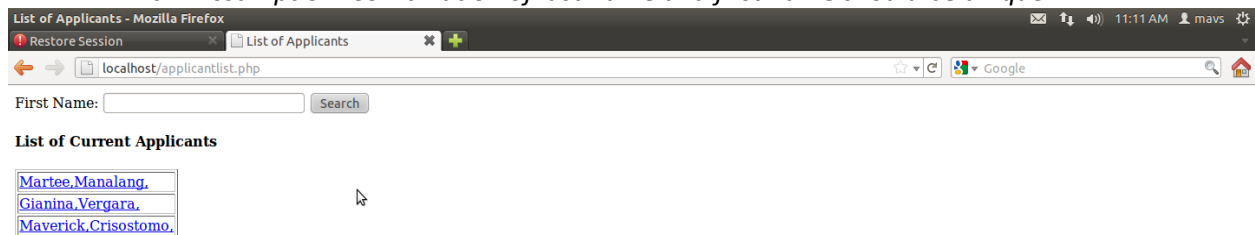
### *index.php*

- Contains the following:
  - o A confirmation that the application for UPCAT has been submitted and
  - o A link to a list of all *Applicants*.



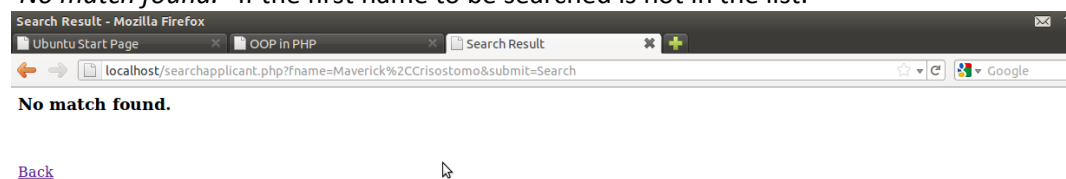
### *applicantlist.php*

- Contains the following:
  - o a *Search box* where users can search for an applicant using the applicant's name.
  - o a *table* of all Applicants showing only the first and last names.
  - o the *names* are links that sends information for the *searchapplicant.php* (Tip: It is like sending information from a form).
  - o *Assumption: Combination of last name and first name should be unique.*

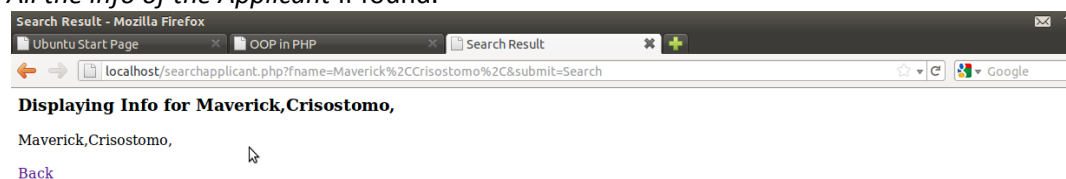


### *searchapplicant.php*

- Displays the following:
  - o "No match found." If the first name to be searched is not in the list.



- o *All the info of the Applicant* if found.



## UPCAT Form Fields

[illegible]

|   |  |  |  |
|---|--|--|--|
| 11. ARE YOU A CHILD OF A UP FACULTY OR EMPLOYEE? 2 <input type="checkbox"/> No 1 <input type="checkbox"/> Yes |  | Name of parent employed by UP: <u>UPEMPCHILD</u> |  |
|   |  | Official Designation: _____                      |  |
|   |  | College/Unit where employed: _____               |  |
| A. Category   |  | B. Tenure  |  |
| <input type="checkbox"/> Full-time  |  | <input type="checkbox"/> Temporary               |  |
| <input type="checkbox"/> Part-time (e.g., lecturer, etc.)   |  | <input type="checkbox"/> Permanent               |  |
| <input type="checkbox"/> With compensation  |  | <input type="checkbox"/> Contractual             |  |
| <input type="checkbox"/> Without compensation   |  | <input type="checkbox"/> Casual                  |  |
| C. Status (Place an X in only one box.)   |  |  |  |
| <input type="checkbox"/> Inactive service   |  |  |  |
| <input type="checkbox"/> On leave with pay  |  |  |  |
| <input type="checkbox"/> On leave without pay   |  |  |  |
| <input type="checkbox"/> On secondment  |  |  |  |

12. Do you have any PHYSICAL DISABILITY or CONDITION that requires special attention or would make it difficult for you to take a regular test?  
 2 ☐ DISABILITY Yes (specify) \_\_\_\_\_  
 (for PWDs taking the exam in Diliman, attach Certification of Disability and contact the Director.)

13. ADDRESS AND TELEPHONE NUMBER. Print permanent home address and telephone number.

PERMANENT HOME ADDRESS

|   |                 |                        |               |                        |               |  |  |  |  |  |
|---|-----------------|------------------------|---------------|------------------------|---------------|--|--|--|--|--|
| Number and Street .....                         | <u>STREETNO</u> |                        |               |                        |               |  |  |  |  |  |
| Subdivision / Village, Barangay, District ..... | <u>SUBD</u>     |                        |               |                        |               |  |  |  |  |  |
| Town / City .....                               | <u>CITY</u>     |                        |               |                        |               |  |  |  |  |  |
| Province .....                                  | <u>PROVINCE</u> |                        |               |                        |               |  |  |  |  |  |
| Postal/Zip Code .....                           | <u>ZIP</u>      | Telephone No (1) ..... | <u>TELNO1</u> | Telephone No (2) ..... | <u>TELNO2</u> |  |  |  |  |  |
| Cellphone Number .....                          | <u>CELLNO</u>   | E-mail Address .....   |               |                        | <u>EMAIL</u>  |  |  |  |  |  |

14. SOCIO-ECONOMIC DATA. Furnish all the required information on each family member listed. Write DECEASED after name of deceased family members. Write down mother's maiden name. Under the column "Highest Educational Attainment", indicate the educational level which the household member actually completed (e.g., Grade 11, Third Year High School, High School Graduate, Second Year College, B.S. E., or Ph.D.).

NOTE: If your annual family gross income is equal to or less than P 100,000, please attach a photocopy of your FAMILY'S 2010 income tax returns or BIR certifications.

|                | NAME            | CITIZENSHIP | MARITAL STATUS | HIGHEST EDUCATIONAL ATTAINMENT | PRESENT OCCUPATION | EMPLOYER | (Do not leave blank) ANNUAL GROSS INCOME (in PNs, paid) |
|----------------|-----------------|-------------|----------------|--------------------------------|--------------------|----------|---|
| Father         | <u>FATHER</u>   |             |                |                                |                    |          |   |
| Mother         | <u>MOTHER</u>   |             |                |                                |                    |          |   |
| Legal Guardian | <u>GUARDIAN</u> |             |                |                                |                    |          |   |
| Subtotal       |                 |             |                |                                |                    |          |   |

BROTHERS AND SISTERS (Only those who are single):

|          |                |  |  |  |  |  |  |
|----------|----------------|--|--|--|--|--|--|
| 1.       | <u>SIBLING</u> |  |  |  |  |  |  |
| 2.       |                |  |  |  |  |  |  |
| 3.       |                |  |  |  |  |  |  |
| 4.       |                |  |  |  |  |  |  |
| Subtotal |                |  |  |  |  |  |  |

15. Have you applied/are you planning to apply to other schools? 2 ☐ No 1 ☐ Yes What are these schools? OTHERSCHOOL

16. Have you ever attended any UPCAT review classes? 2 ☐ No 1 ☐ Yes Where/With what center? REVIEWCLASS

I affirm that:

(1) I have read all the information contained in the General Information Bulletin on Freshmen Admission for Academic Year 2012-2013 and understood all the instructions in connection with my application for the UPCAT;

(2) All the information supplied in this application form are true, complete, and accurate;

(3) I have not taken the UPCAT previously and that I am not taking nor have I taken any college subject in any school, college or university; and

(4) I will abide by the University rules and policies on test administration and on student fees including tuition, scholarships, and financial assistance programs.

I am aware that any or all the information furnished in this application may be checked against the original documents and that withholding information or giving false information will disqualify me from admission and will be a basis for dismissal, if admitted. I also understand that no results for my application may be released until all requirements are satisfied.

SIGNATURE OF STUDENT

\_\_\_\_\_  
DATE

I certify that:

(1) the information which my son/daughter/dependent has provided in this application form is true, complete, and accurate;

(2) I have read all information contained in the General Information Bulletin on Freshmen Admission Academic Year 2012-2013 and agree to abide by the University rules and policies on student fees including tuition, scholarships, and financial assistance programs.

I recognize that in signing this application form, I share with my son/daughter/dependent the responsibility for the veracity and completeness of the information supplied herein.

SIGNATURE OF PARENT/GUARDIAN

\_\_\_\_\_  
DATE

REMINDERS:

No results may be released pending submission of all requirements stipulated in UPCAT Form 2 (Secondary School Record). Form 2 must be accomplished accurately and completely by the Office of the Principal/School Head. Specifically, check that: (a) final grades for all subjects taken are complete and accurate; (b) failing grades (if any) are also included; (c) the number of units for each subject is indicated; (d) the principal's signature is across the photograph and at the bottom of both pages of the form; (e) enunciations and corrections have been initialed by the principal; (f) school dry seal (if any) is affixed; (g) your signature is on the space indicated; and (h) a Certified True Copy of the certificate of Government Recognition or Government Permit of each private school attended is submitted.

**REMEMBER TO CLIP ON YOUR APPLICATION FORM TWO ADDITIONAL IDENTICAL RECENT PHOTOGRAPHS FOR YOUR TEST PERMIT. THEY SHOULD BE IDENTICAL TO THE ONES YOU ATTACHED ON THE FRONT PAGE AND ON UPCAT FORM 2 (SECONDARY SCHOOL RECORD). DO NOT PASTE THE PHOTOGRAPHS. EACH PHOTOGRAPH SHOULD HAVE YOUR PRINTED NAME AT THE BACK.**

## **UPCAT Form Fields Details**

*NOTE: Each of the fields detailed below corresponds to one field in the csv file (Read: [Wiki: CSV](#)).*

- LNAME
  - Single-value field
- FNAME
  - Single-value field
- MNAME
  - Single-value field
- SEX
  - Single-value field
  - Possible values:
    - Male | Female
    - Example: Male
- DOB
  - Single-value field
  - Format:
    - MM – DD – YYYY
    - Example: 01 – 19 - 1990
- POB
  - Single-value field
  - Possible values:
    - City/Town, Province
    - Example: Los Banos, Laguna
- MGROUP
  - Multiple-value field
  - Possible values:
    - No | Yes, <Minority group>
    - Example 1: No
    - Example 2: Yes, Igorot
- CITIZEN
  - Multiple-value field
  - Possible values:
    - Filipino | Foreign, <Foreign citizenship> | Dual, <citizenship1>, <citizenship2>
- HSNAME
  - Single-value field
- MYCOMP
  - Single-value field
- HSADD
  - Single-value field
- HSREGION

- Single-value field
- HSOTHERS
  - Multiple-value field
  - Possible values:
    - No | Yes, <Highschool Name>, <Address>, <Year>
    - Example: Yes, Los Banos National High School, Los Banos, Laguna, 1993
- ELEMGY
  - Single-value field
- UPCH1
  - Single-value field
- UPCH1C1
  - Single-value field
- UPCH1CD1
  - Single-value field
- UPCH1C2
  - Single-value field
- UPCH1CD2
  - Single-value field
- UPCH2
  - Single-value field
- UPCH2C1
  - Single-value field
- UPCH2CD1
  - Single-value field
- UPCH2C2
  - Single-value field
- UPCH2CD2
  - Single-value field
- MEDICINE
  - Single-value field
  - Possible values:
    - No | Yes
- TCENTER
  - Single-value field
- UPEMPCHILD
  - Multiple-value field
  - Possible values:
    - No | Yes, <Name of parent>, <Designation>, <College/Unit>, <Category>, <Tenure>, <Status>
- DISABILITY
  - Multiple-value field

- Possible values:
    - No | Yes, <Type of disability>
- STREETNO
  - Single-value field
- SUBD
  - Single-value field
- CITY
  - Single-value field
- PROVINCE
  - Single-value field
- ZIP
  - Single-value field
- TELNO1
  - Single-value field
- TELNO2
  - Single-value field
  - Can be NULL
- CELLNO
  - Single-value field
- EMAIL
  - Single-value field
- FATHER
  - Multiple-value field
  - Possible Input:
    - N/A | <Name>, <Citizenship>, <Marital Status>, <Highest Educ'l Attainment>, <Occupation>, <Employer>, <Annual Gross Income>
- MOTHER
  - Multiple-value field
  - Possible Input:
    - N/A | <Name>, <Citizenship>, <Marital Status>, <Highest Educ'l Attainment>, <Occupation>, <Employer>, <Annual Gross Income>
- GUARDIAN
  - Multiple-value field
  - Possible Input:
    - N/A | <Name>, <Citizenship>, <Marital Status>, <Highest Educ'l Attainment>, <Occupation>, <Employer>, <Annual Gross Income>
- SIBLING
  - Multiple-value field
  - Possible Input:
    - N/A | <Name>, <Citizenship>, <Marital Status>, <Highest Educ'l Attainment>, <Occupation>, <Employer>, <Annual Gross Income>;



- Example 1: Juan Bautista, Filipino, Single, College, Programmer, IBM, 100000;  
Jose Bautista, Filipino, Married, College, Programmer, Microsoft, 110000
- OTHERSCHOOL
  - Multiple-value field
  - Possible values:
    - No | Yes, <Name of other School>;
    - Examples:
      - No
      - Yes, Christian School International; Makiling Highschool
- REVIEWCLASS
  - Multiple-value field
  - Possible values:
    - No | Yes, <Name of Review Class Center>;

\* A *semi-colon* “;” is a delimiter for multiple values of the same categories (i.e., <Name of other School>).

Additional Reference:

[W3Schools: PHP](#)