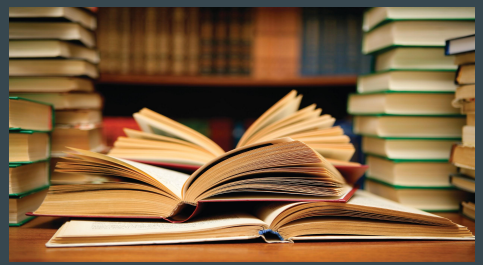
# QuizApp

CSCI 5448 Object Oriented Analysis and Design - Spring 2016
Coursework Project



# Team Members

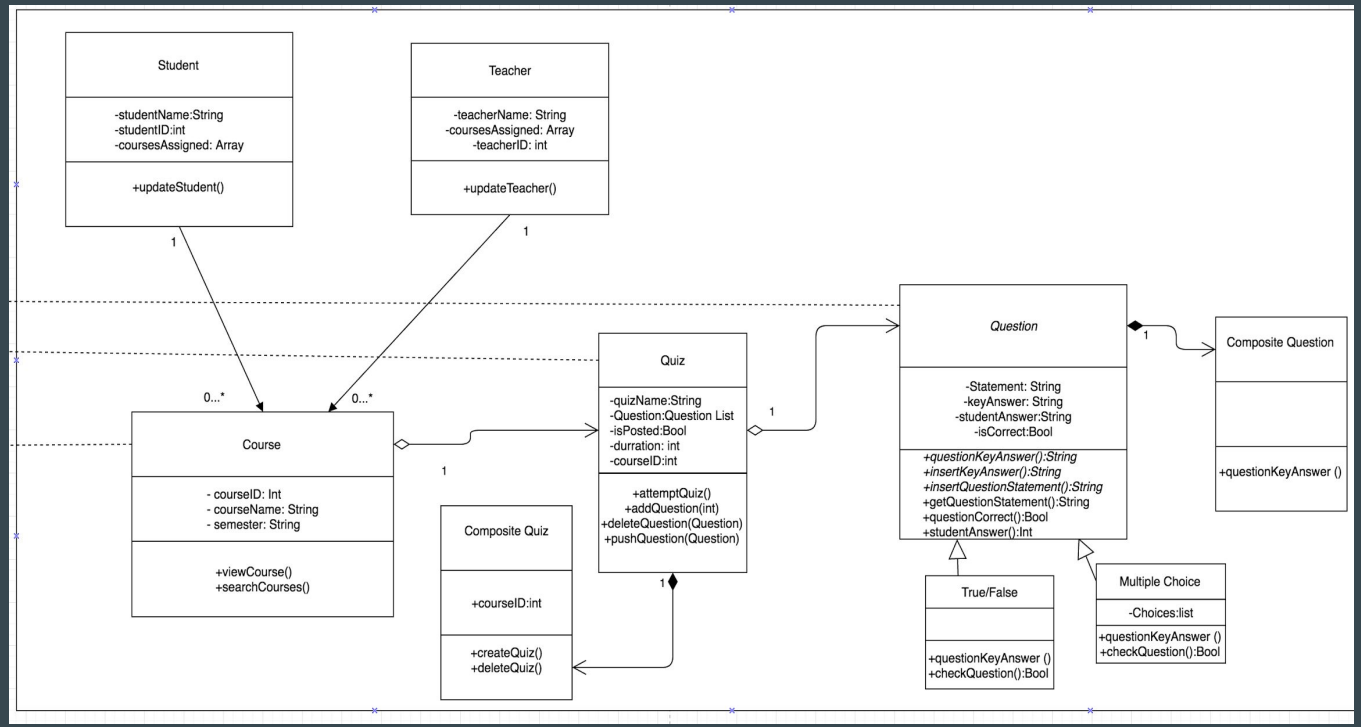
Bader Alshemaimri

Yen-Teh Liu

Catherine Dewerd

All of us belong to the Graduate - CSCI 5448 section of the class.

# Class Diagram




Implemented use cases:

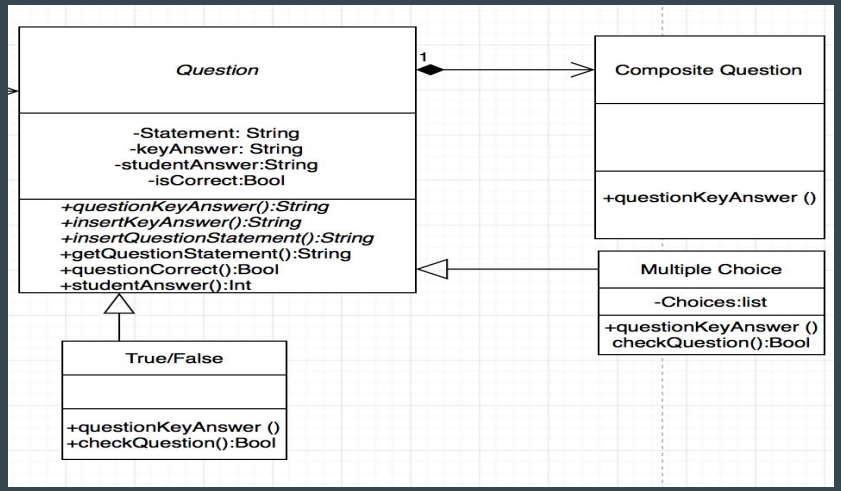
- Login use case
- View course
- Make Quiz
- Add Question
- Attempt Quiz

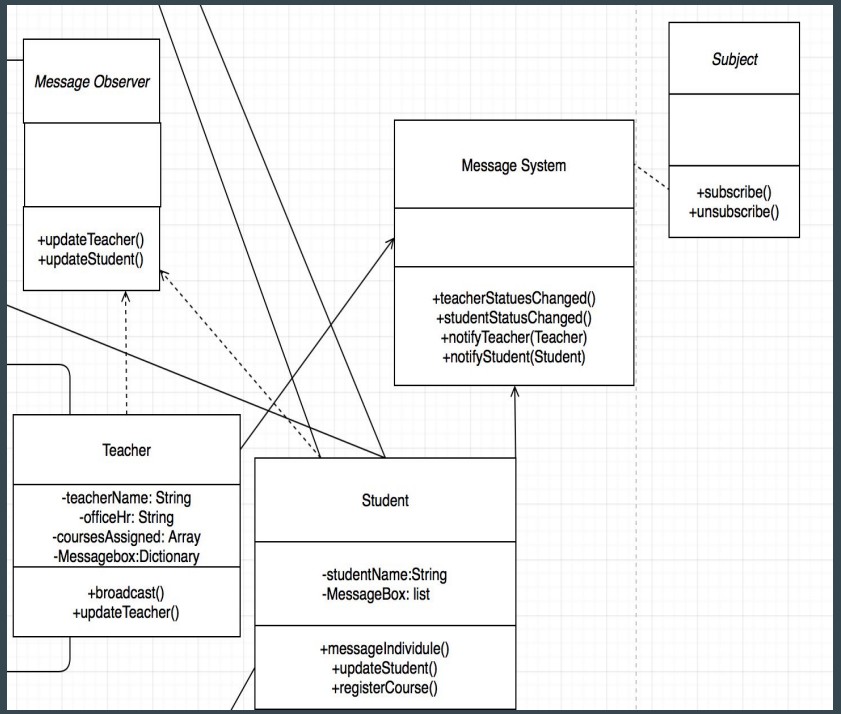
# Design patterns

We could have used the following design patterns during the implementation phase:

Composite design pattern

Observer design pattern



# Applied OOD concepts

Inheritance

Composition (Delegation)

# Programming language and Framework

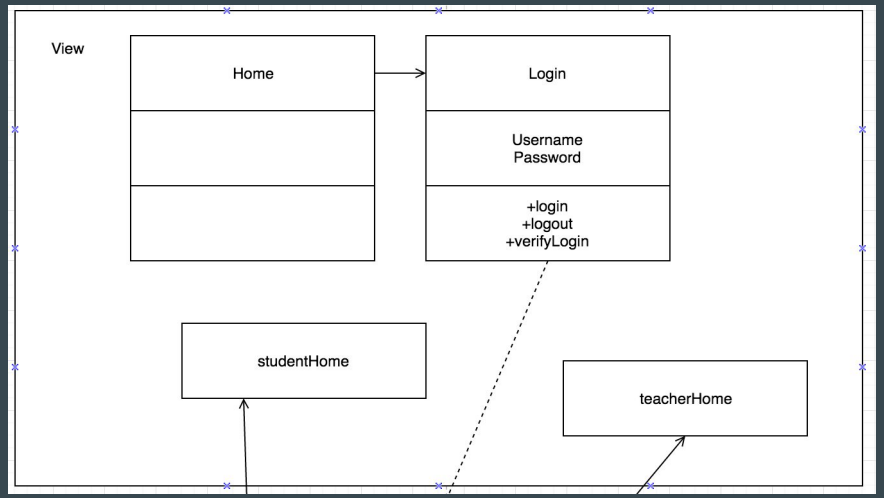
We implemented the app using PHP.

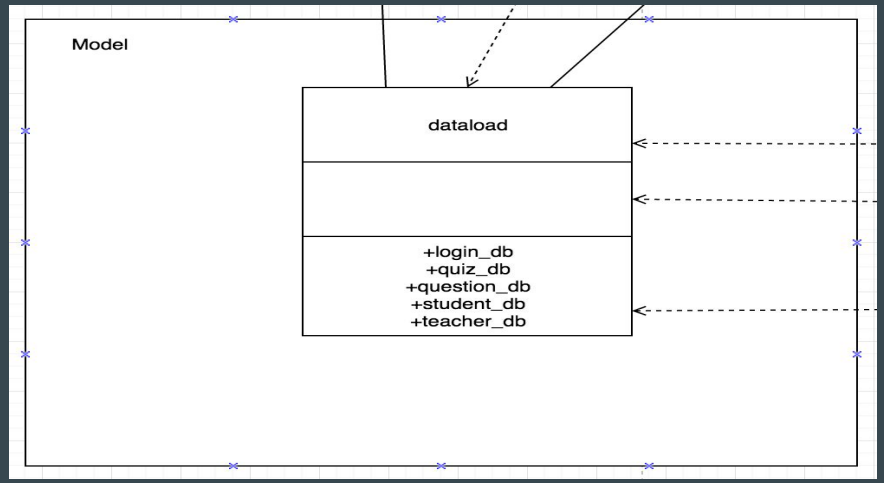
We decided to use Codeigniter framework.

- No need to write MySQL commands
- Provides MVC architectural pattern

Controllers contain our classes, Dataload has the database transactions and views represents our front end design

# Model View


View
Home
Login
Username
Password
+login
+logout
+verifyLogin
studentHome
teacherHome


Model
dataload
+login_db
+quiz_db
+question_db
+student_db
+teacher_db

# Controller ( an example)

```php
<?php
  class Quiz extends CI_Controller{
    function __construct()
      {
        parent::__construct();
        $this->load->model('dataload','',TRUE);
        $this->load->library('question');
        $this->load->helper('form');
      }
      function index(){


      }
      function attemptQuiz($quizID)
      {
        $data['questions'] = array();
        $questionID = $this->dataload->getQuestionID($quizID);
        foreach ($questionID as $q){
          $question = $this->question->getQuestionStatement($q->questionID)[0];
          array_push($data['questions'], $question);
        }
        $this->load->view('student_quiz_view', $data);

      }
      function editQuiz($quizID)
      {
        $data['quizID'] = $quizID;
        $data['questions'] = array();
        $questionID = $this->dataload->getQuestionID($quizID);
        foreach ($questionID as $q){
```

# Demo Video

http://screencast.com/t/zavBI8mbXNO