

Open Source Software Analysis and Design

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- Detailed design class diagram.
- Statechart that models the overall behavior of the system
- Detailed statecharts that model the behavior of the key algorithms..
- Test Case Design document.

I will be using add-on and coding debugging tools such firebug and xdebug to debug php in the same environment as javascript to prevent any coding errors

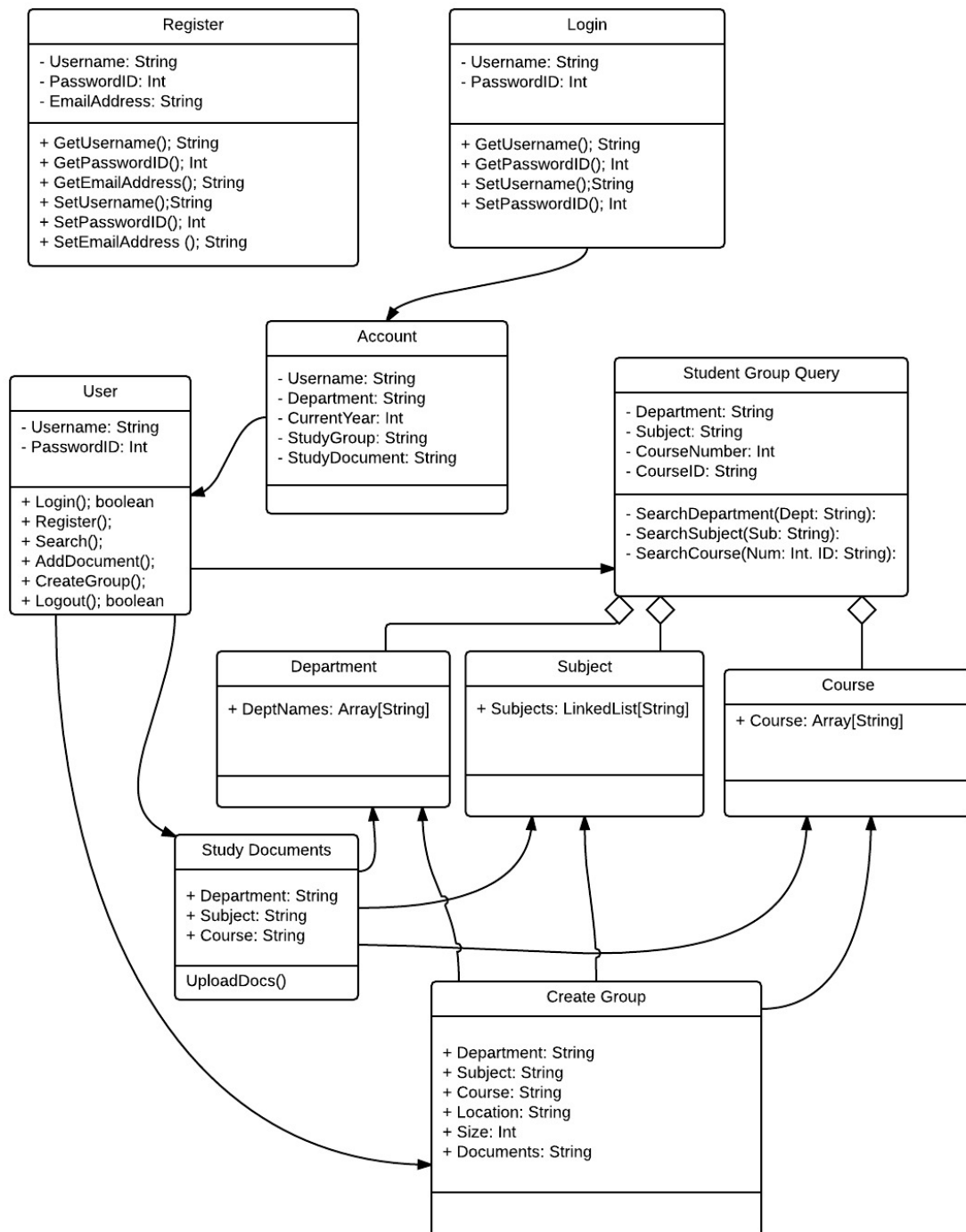
Functionality Tested	Inputs	Expected Outputs	Error Handling
Login	Username, Password	Account	The login page will be presented again as a result of incorrect login information
Department and Course Search	Department, Course Name and ID	Offered Study Groups	An error message will be presented if incorrect data inputted and the search will be presented again.

- Full link to private repository on Github.
<https://github.com/clarks3/OSProject>

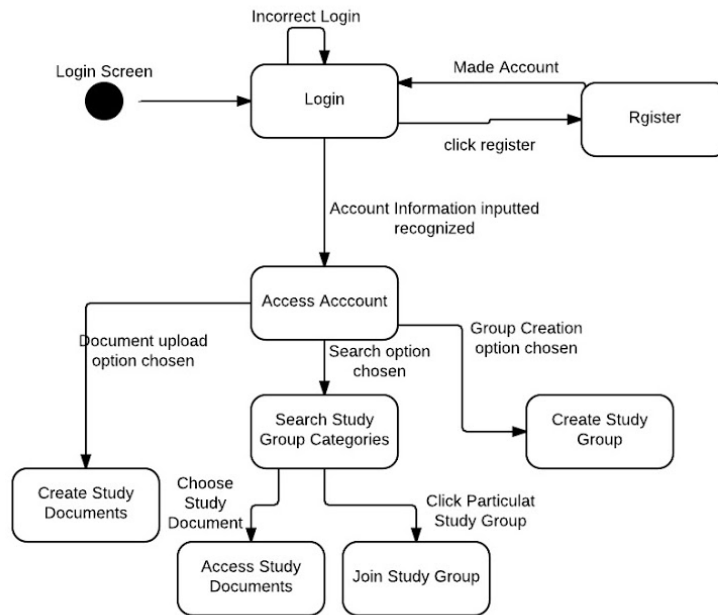
Testing Methodology

For system development, I will be using the spiral model. Starting in the planning phase, requirements are gathered and risk is assessed which helps with development in later stages. Additional Functionality can be added at a later date due to software produced early in the software life cycle.

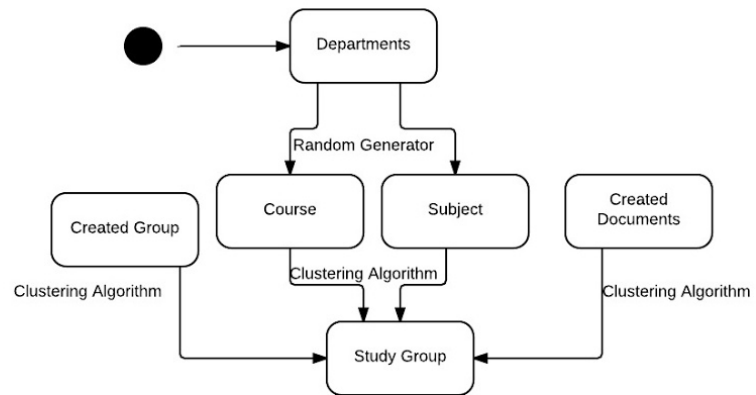
Design Class Diagram



Statechart that models the overall behavior of the system.



Detailed statecharts that model the behavior of the key algorithms.



Mock ups

StudyBuddy

UserName[]
Password[]
 Login
 Register

Register

Username[]
Password[]
EmailAddress[]

Account SearchLink

 Username:
 Department:
 Current Year:
 Create Group Link
 Study Groups:
 []
 Create Documents Link
 Study Documents:
 []

Group Search

SearchDepartment[]
SearchSubject[]
SearchCourse[]

Create Group

Department[]
Subject[]
CourseNumber[]
CourseID[]
 Description
 []
 []

Create Documents

Department[]
Subject[]
CourseNumber[]
CourseID[]
 []

 []

Departments

Science
Engineering
Education
.....

Subjects

Calculus
Physics
Chemistry
.....

Courses

CSC415
MAT128
SPA101
.....

Groups

- CalculusStudy
- SpanishGroup

.....

Group Page

Title:
Description: