



Student User Guide

CIS4911 Senior Project

Section U01

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Senior Project Website

Senior Project

Fall 2013

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Table of Contents

Copyright.....	2
1. General Information	4
1.1. Introduction.....	4
1.2. Acronym and Abbreviations.....	4
2. Hardware and Software requirements.....	5
3. Installation and setup	6
3.1. Database Deployment Guide	6
3.2. Code Deployment Guide	6
4. Getting started.....	7
4.1. Student login	7
4.2. Student propose projects.....	10
4.3. Edit project	11
4.4. Join/Leave a project	12
4.5. Edit Student profile	13

1. General Information

This section contains an overview of the system. It provides a list of the acronyms and abbreviations used in this manual and their meaning.

1.1. Introduction

The application relies on web based system. It is intended for Senior Project class students of Computer Science at Florida International University. Students, professors and clients can sign in using multiples login options, pull their profiles from LinkedIn and search, join, and leave projects. This system will ease the process of coordination of the class for the professor in charge of this one, will allow student to get to this class with a project they are passionate about and a well assembled team and for the project's sponsors to be able to promote their projects and look for the skills needed for it.

The system has four users:

- Head Professor (Professor teaching the class and Administrator of the website)
- Mentors (Mentor for a Project)
- Student (SCIS student)
- Guest (Unregistered user)

1.2. Acronym and Abbreviations

FIU

Florida International University

SPW

Senior Project Website

API

Application Programming Interface

SCIS

School of Computing and Information Sciences

LinkedIn

Social networking website for people in professional occupations

Guest user

Unregistered user in SPW

Registered user

SPW registered user

Student

SCIS Student

EULA

End User License Agreement

2. Hardware and Software requirements

Software	Hardware
PHP 5.1	Processor: x86 / x64 2.0 GHz or faster
MySQL 5.0	Memory: 2 GB DDR3 or higher
Apache 2	Disk Space: 20 GB
	Display: 1024 X 768 with DirectX 9

3. Installation and setup

This section describes the database and code deployment guides.

3.1. Database Deployment Guide

Repository: https://github.com/camilin87/senior_project_db.git

1- Connect to the remote server using ssh

2- Download the database from the git repository

```
git clone git://github.com/camilin87/senior_project_db.git
```

3- Enter the repository folder

```
cd senior_project_db
```

4- If you already had downloaded the repository download the latest version. `git pull`

5- Drop all the existing tables in the DB by running this very long command.

```
echo "set foreign_key_checks=0;" > drop.sql && mysqldump -u spw_rw -p --no-data
senior_project_website | grep ^DROP >> drop.sql && echo "set foreign_key_checks=1;" >>
drop.sql && mysql -u spw_rw -p senior_project_website < drop.sql && rm drop.txt
```

6- Import the newly downloaded database.

```
mysql -p -u spw_rw senior_project_website < senior_project_website.sql
```

Database users:

- root: should not be used
- spw_r: readonly access user, should be used for non-changing queries
- spw_rw: user with read write access
-

3.2. Code Deployment Guide

Repository: https://github.com/camilin87/senior_project.git

1- Connect to the remote server using ssh

2- Enter the website directory

```
cd /var/www/html/senior-projects/
```

3- Switch to the master branch. Or any branch you want to publish

```
sudo git checkout master
```

4- Download the latest version of the source code

```
sudo git pull
```

4. Getting started

To describes the basis of how to use this website, three of the principal use cases are shown step by step.

To access the Senior Project Website, open a browser and type the following address on the address bar: <http://srprog-spr13-01.aul.fiu.edu/senior-projects/>

4.1. Student login

Step 1. First the login page is shown if you don't have a previous session open (Figure 1)

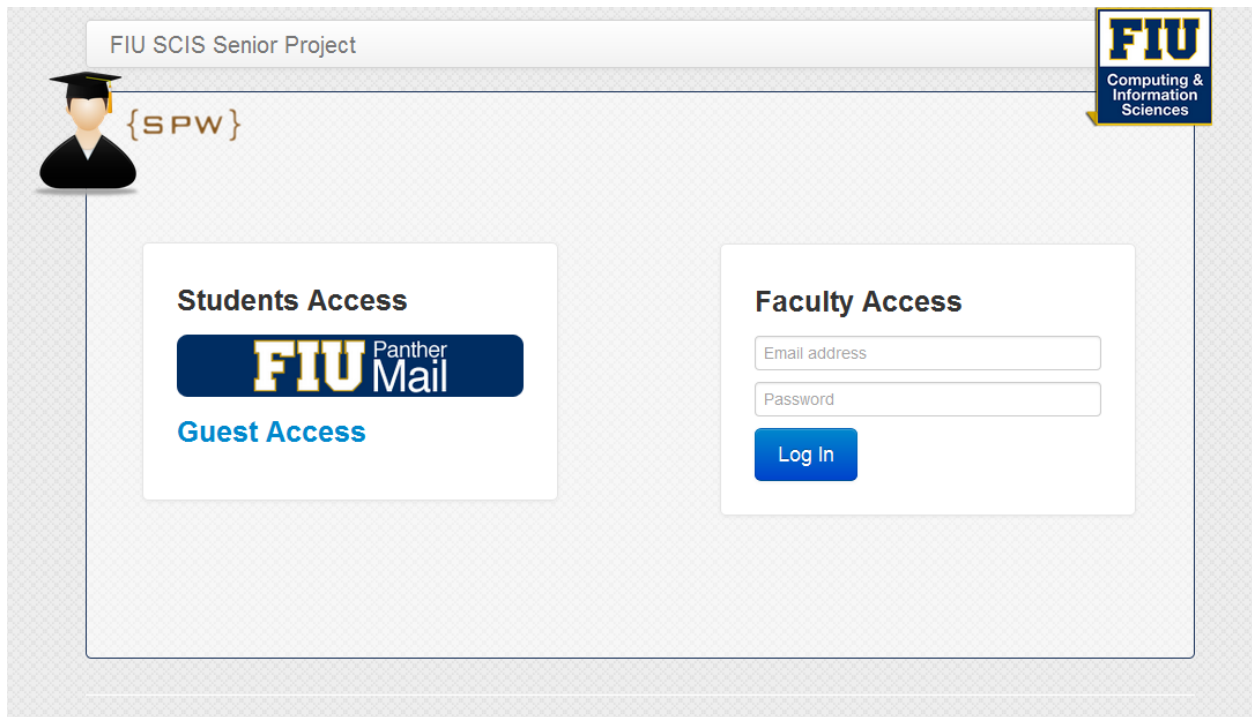


Figure 1. Login Page

Step 2. Students can only login using the FIU Panther Mail link and by introducing their FIU credentials. If you are a Student but are not registered into the Senior Project class you would not be able to login to the webpage (Figure 2 and 3)

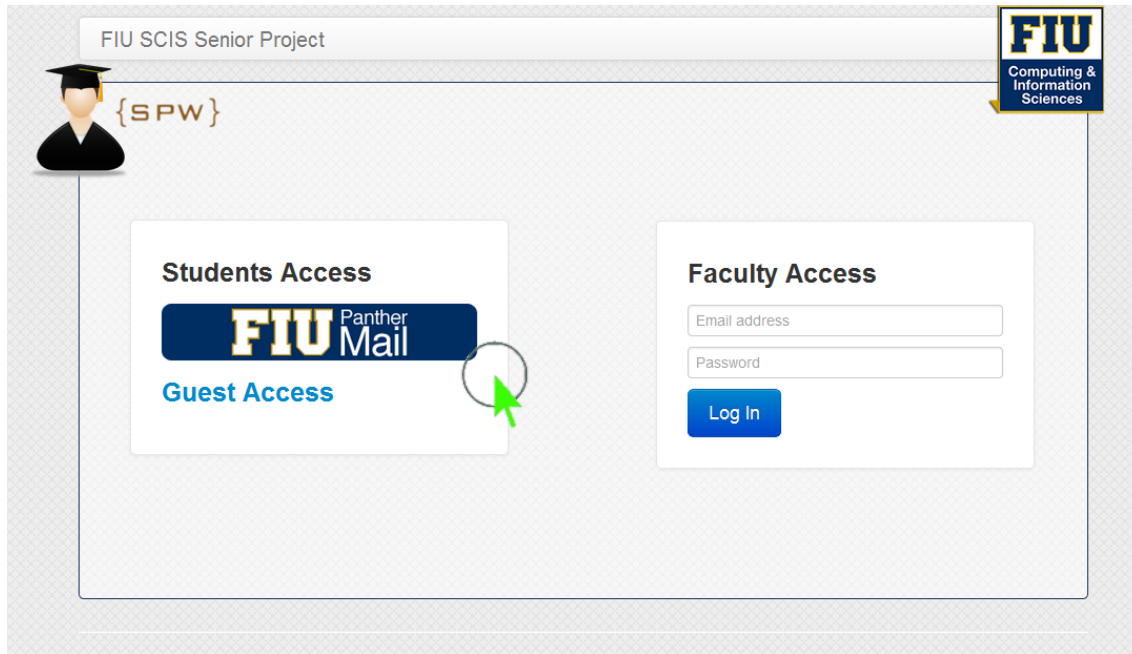


Figure 2. Login process

Florida International University

FIU Senior Project is asking for some information from your Florida International University account. To see and approve the request, sign in.

Sign in to your account at

Florida International University

Username: @fiu.edu

Password:

☒ Stay signed in

[Can't access your account?](#)

Figure 3. FIU Login

Step 3. After successfully signed in, the home page is shown with the project suggestions for the student and the current approved projects (Figure 4)

The screenshot displays a web application interface. At the top, a navigation bar includes links for 'Current Projects', 'Past Projects', 'My Project', 'Files Repository', and 'About'. A search bar on the right contains the text 'search for people, skills, pr' and a magnifying glass icon. Below the navigation bar, the main content area is titled 'Suggested Projects'. It features three project cards. The first card, 'Dynamic Presenter', lists skills (C#, Php, Java, Pl/Sql), proposer (Masoud Sadjadi), mentor (Juan Caraballo), team members (Jimmy Mauri, Jose Camino), and status (APPROVED). The second card, 'Game Engine', describes a multiplatform game engine, lists skills (C#, .net, Java), proposer (Masoud Sadjadi), mentor (Wei Zang), team members (Antonio Diaz, Brian Lara, Julian Nodarse, Michael Weschler, Robert Law), and status (APPROVED). The third card, 'Mobile Clinic: Version 2', describes an open source software system, lists proposer (Masoud Sadjadi), mentor (Steven Luis), team members (James Mendez, Kevin Diaz, Humberto Suarez, Ernesto Garcia), and status (APPROVED). Each card has a 'Join' button.

Current Projects Past Projects My Project Files Repository About search for people, skills, pr Q

Suggested Projects

Dynamic Presenter C# Php Java Pl/Sql
Dynamic Presenter [More Info...](#)
Proposed By: [Masoud Sadjadi](#)
Mentor: [Juan Caraballo](#)
Team Members: [Jimmy Mauri](#) [Jose Camino](#)
Status: **APPROVED** [Join](#)

Game Engine C# .net Java
This project will be focused on creating a multiplatform game engine used to build a video game. This game engine will use OpenGL to deliver 2D or 3D graphics on each platform. The engine will give a [More Info...](#)
Proposed By: [Masoud Sadjadi](#)
Mentor: [Wei Zang](#)
Team Members: [Antonio Diaz](#) [Brian Lara](#) [Julian Nodarse](#) [Michael Weschler](#) [Robert Law](#)
Status: **APPROVED** [Join](#)

Mobile Clinic: Version 2 [Join](#)
The Mobile Clinic Project is an open source software system designed to provide basic patient management and records needs in ad hoc clinics established in remote villages in Africa. Many charities pr [More Info...](#)
Proposed By: [Masoud Sadjadi](#)
Mentor: [Steven Luis](#)
Team Members: [James Mendez](#) [Kevin Diaz](#) [Humberto Suarez](#) [Ernesto Garcia](#)
Status: **APPROVED**

Figure 4. Home page with project suggestions and current approved projects

4.2. Student propose projects

Step1. To propose a project first go to “My Project” page using the link on the navigation bar, next use the “Propose a Project” button. (Figure 5)

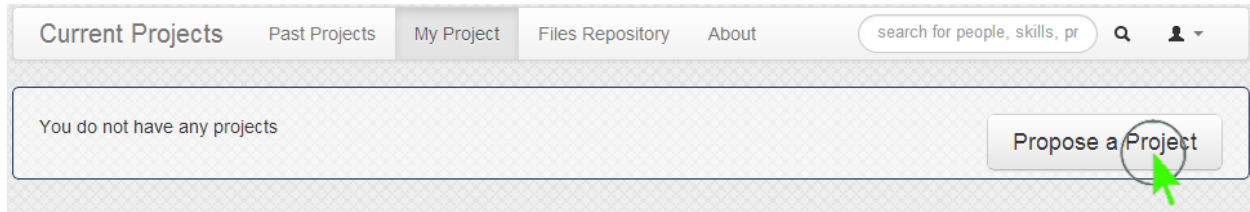


Figure 5. Propose a Project

Step2. To propose a project, you need to enter specific information about the project in the corresponding text fields “Enter the project title”, “Enter skills”, “Enter a description for the project”, and “Enter the maximum project capacity”. Next, click on Save Changes. The Student will automatically be assigned as a Team Member to the Project (Figure 6)

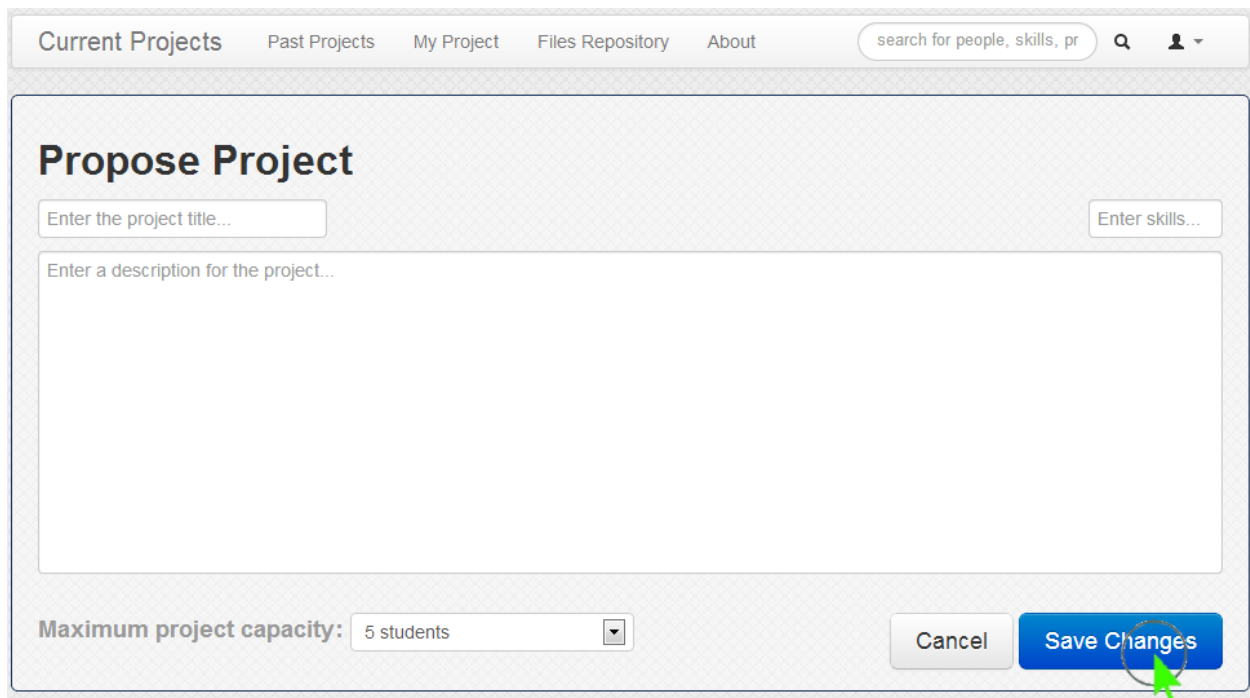
A screenshot of the 'Propose Project' form. The form has a title 'Propose Project' and several input fields: 'Enter the project title...', 'Enter skills...', and a large text area for 'Enter a description for the project...'. At the bottom, there is a dropdown menu for 'Maximum project capacity:' currently set to '5 students'. To the right of the form are two buttons: 'Cancel' and 'Save Changes'. A green arrow points to the 'Save Changes' button.

Figure 6. Proposing a Project

4.3. Edit project

The Student can Edit the project and Delete the Project while the status is still pending approval by the Head Professor. (Figure 7)

Current Projects Past Projects My Project Files Repository About search for people, skills, pr

Edit Project

Senior Project Website

Php x Databases x Javascript x Enter skills...

Problem: We arrive to the last semester of our major, into the Senior Project class, which has a pretty tight schedule as you know, and we find ourselves forced to choose a project, team and mentor in one week. Have we really really thought about the project we are choosing? Do you know if the skills of the classmate just joined to your project are the ones you are looking for to end with a successful senior project? Computer Science students need a tool that facilitate them to start working on their senior project time ahead the class starts and get to this one at least with a project you are passionate about and a well assembled team. Solution: This project develops a Web site for the Senior Project course at the School of Computing and Information Sciences at Florida International University. The Web site should allow users to register online. Users are Senior Project students, mentors, and clients. Users should be able to explore the projects and demo/exhibit events in the past. They should be able to propose new projects, explore, and join ongoing projects. Website will be developed with ASP.net MVC and hosted in Windows Azure.

Maximum project capacity: 3 students

Status: **PENDING APPROVAL**

Mentor: This project does not have a mentor

Cancel Save Changes Delete Project

Figure 7. Edit Project

4.4. Join/Leave a project

The user can Join or Leave a project, either directly from the Home Page or from the Project's Description page. (Figure 8 and 9)

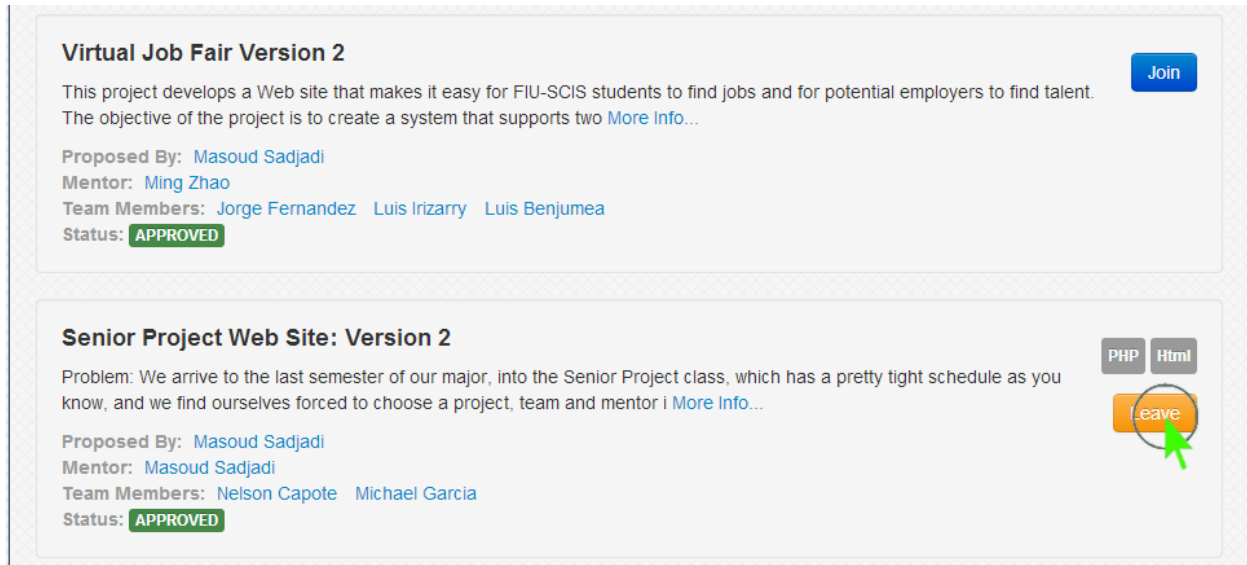


Figure 8. Join/Leave from Home Page

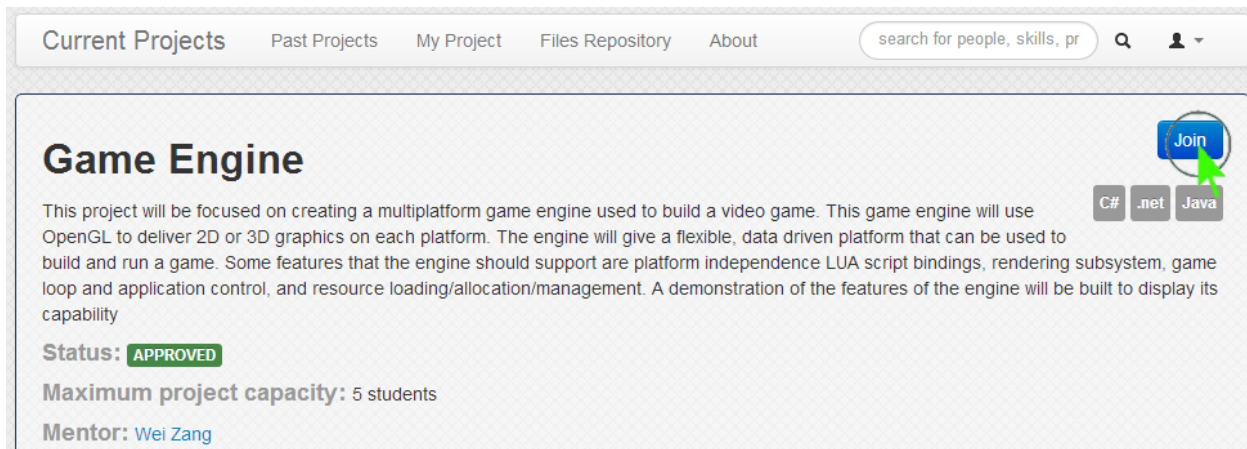


Figure 9. Join/Leave from Project Description page

4.5. Edit Student profile

The student can sync his/her profile with LinkedIn. Once the profile is synced with LinkedIn the student's Picture, Skills, Languages and Experience will be automatically updated with the most recent information that the student have in LinkedIn. The student can enter First Name and Last Name in the corresponding text fields; in addition the student can choose to upload a picture from a local storage, and enter a short Bio. Next they can click on Save Changes. (Figure 10)

Current Projects Past Projects My Project Files Repository About search for people, skills, &

Student Profile

Nelson Capote
ncapo006@fiu.edu

Choose File No file chosen

Skills

C# XML .NET ASP.NET Microsoft SQL Server Software Development Java WCF MySQL SQL Visual Studio Programming
Web Development jQuery JavaScript AJAX ASP.NET MVC Eclipse Oracle Web Services HTML PL/SQL Entity Framework T-SQL OOP
Software Design Database Design Test Driven Development Subversion Software Documentation Agile Methodologies UML MVC CSS
LINQ Databases

Languages

English Spanish

Short Bio

This is my bio.
Nelson

Experience

Lead Programmer at Trax USA Corp
2010-11 to Present

Figure 10. Edit Student profile