1. Introduction

Tuesday, February 28, 2023   7:33 PM

1.1 Business purpose

The purpose of the sponsor Josiah Greenwell is to learn and build software systems, and to educate others on how to understand software.

1.2 Business scope

Tuesday, February 28, 2023   7:42 PM

Greenwell will have a website that includes their portfolio, previous and current research, the taught courses, and additional resources for those courses.

1.3 Business overview

Tuesday, February 28, 2023   7:42 PM

J. Greenwell has been instructing students on technology for over five years and received excellent feedback for his work. He teaches classes such as Computer Security and Cloud Computing to expand their knowledge in the software engineering field. The original website was created to have a place to find his information, the courses, and resources to help process the contents. The current state with the site is it lacks all the courses being taught and a consistent format of the pages. To fix this, a new website will be created that updates the information and organizes it to reflect Greenwell's current position.

1.4 Definitions

- Curriculum Vitae (CV) - course of life; a written summary of a person's work that cumulated from education, experience, and certifications

- Family Educational Rights and Privacy Act (FERPA) - federal law that protects the privacy of student education records

- Federal Trade Commission (FTC) - agency that protects the consumer from unfair business practices and unfair methods of competition

1.5 Major stakeholders

The stakeholders of Greenwell's website are users and the product owner. Users consists of students, FGCU faculty, future employers, and sponsors. The students will use the product to look up a course, its assignments, and the academic schedule to said course to better their learning. Faculty will visit the website to see the quality of Greenwell's skills as an engineering and the resources that are available. And employers and sponsors will be able to check his CV and research he has participated in.

2. References

Tuesday, February 28, 2023   7:42 PM

- *29148-2018 - ISO/IEC/IEEE International Standard - Systems and Software Engineering -- Life Cycle Processes -- Requirements Engineering - Redline*. IEEE, 2018.
- "Curriculum Vitae." *Wikipedia*, Wikimedia Foundation, 31 Jan. 2023, https://en.wikipedia.org/wiki/Curriculum_vitae.
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- Greenwell, Josiah. "Educator and Engineer." *Educator and Engineer*, 2022, https://www.jsgreenwell.com/home.
- Staff, the Premerger Notification Office, and Stephanie T. Nguyen. "About the FTC." *Federal Trade Commission*, 14 Nov. 2022, https://www.ftc.gov/about-ftc.
- Staff, the Premerger Notification Office, and Stephanie T. Nguyen. "Website Policy." *Federal Trade Commission*, 10 Feb. 2022, https://www.ftc.gov/policy-notices/website-policy.

3. Business management requirements

Tuesday, February 28, 2023   7:42 PM

3.1 Business environment

Tuesday, February 28, 2023   7:42 PM

The website is to be developed for educational purposes. The suitable environment for the website is the school the professor currently teaches at, Florida Gulf Coast University. Engineering students may attend to class remotely or in-person, but the work is done online. It will be useful to have a website that holds the resources needed for the class Greenwell is teaching to be more proactive.

3.2 Mission, goals, and objectives

Tuesday, February 28, 2023   7:42 PM

The mission is to make a website that serves as a central location to help the student body, providing information, and discussions on technology. This includes a list of assignments and academic resources within in the courses, and ongoing research being done.

3.3 Business model

Tuesday, February 28, 2023   7:42 PM

The website will distributed through the Canvas homepage and the Teams of the courses, where Greenwell is the instructor. Providing direct links to the related assignments that are on Canvas to the site will incentivize students to keep visiting. The additional resources in understanding the coursework are to be located alongside the assignments.

3.4 Information environment

Tuesday, February 28, 2023   7:42 PM

The project portfolio will consist of features that website should incorporate, such as moving back and forth pages of an assignment, or additional color schemes to assist colorblind students. Priority will go to the key features in order for the website to function.

The structure for developing the system is to first create the schema of the website's interface, about how the pages interact and the visibility. Once the interface is in a measurable state, the courses taught by Greenwell will placed and information will be filled by the professor himself when editing.

Key business information is to be stored in Google Drive. The professor can store data privately and publicize it through share links. The management of the data is the responsibility of Greenwell as the information can stem from students.
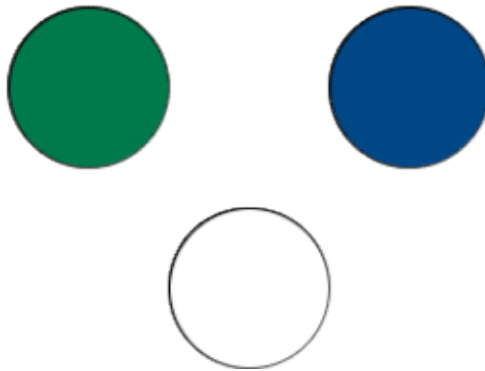
4. Business operational requirements

Tuesday, February 28, 2023   7:42 PM

4.1 Business processes

Florida Gulf Coast University
Colors

1. The construction of the course pages starts, where each course has an overview, a syllabus, an assignments, and resources page.
2. An assignment with multiple pages will have interactable buttons to go backwards and forwards on a page.
3. Each resources page will contain links associated with the contents of said course.
4. The Academic Resources page will have more information for students and formatted to hold related material.
5. The color scheme of the website becomes that of Florida Gulf Coast University, the current school the professor teaches at.
6. The website is to be tested to work on Google Chrome, Firefox, and Edge.

4.2 Business operational policies and rules

Tuesday, February 28, 2023   7:43 PM

The product must abide to the two rules set by the business.

1. The website should not use logos without permission under FTC's website policy.
2. The website should be FERPA complaint, so the privacy of students is maintained.

Greenwell is currently a FGCU instructor, however, he cannot use the school logo. To ensure the first rule is followed, the Florida Gulf Coast University logo will not be used. It avoids the risk of the website being taken down for using the school's image. The Family Educational Rights and Privacy Act (FERPA) protects the student's educational records being widely accessible. Content on the website will not contain any students' confidential information as it is to be an aid.

4.3 Business operational constraints

Tuesday, February 28, 2023   7:43 PM

The performance indicators of the project
consists of the click-through rate of the website, and its ease of use. The click-through rate refers to the amount of clicks it takes to reach to the desired page. The desired goal is to lower the amount of clicks compared to the currently up website, if possible. The second indicator is about people's ability to use the site. Users should not have trouble accessing the pages due to the colors, text size, etc. Editing of the website's pages also falls under the second indicator.

The quick brown fox jumps over the lazy dog.
The quick brown fox jumps over the lazy dog.
The quick brown fox jumps over the lazy dog.
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The quick brown fox jumps over…
The quick brown fox jumps over…

4.4 Business operational modes

Tuesday, February 28, 2023   7:43 PM

In an unstable state, where the website is not able to developed in normal conditions, there will be an offline document that holds the outline for all the essential features. It is to be expected for power in people's area to go out. The features should be prioritized whether or not in an unstable state.

4.5 Business operational quality

Tuesday, February 28, 2023   7:43 PM

The website should be easy to move through, have its courses organized properly, and information regarding the professor's portfolio within in a clean format. It is required for the website to be presentable not only to the students and faculty, but also future employers and sponsors who look for Greenwell's work.

4.6 Business structure

The structure has the instructor being the product owner and responsible for hosting the website at the top. Students who are doing service hours are under him, they must receive permission to add or edit items of the courses. The users such as the student body, staff, employers, and sponsors are at the bottom of the structure as they only use the product.

5. Preliminary operational concept of proposed system

Tuesday, February 28, 2023   7:47 PM

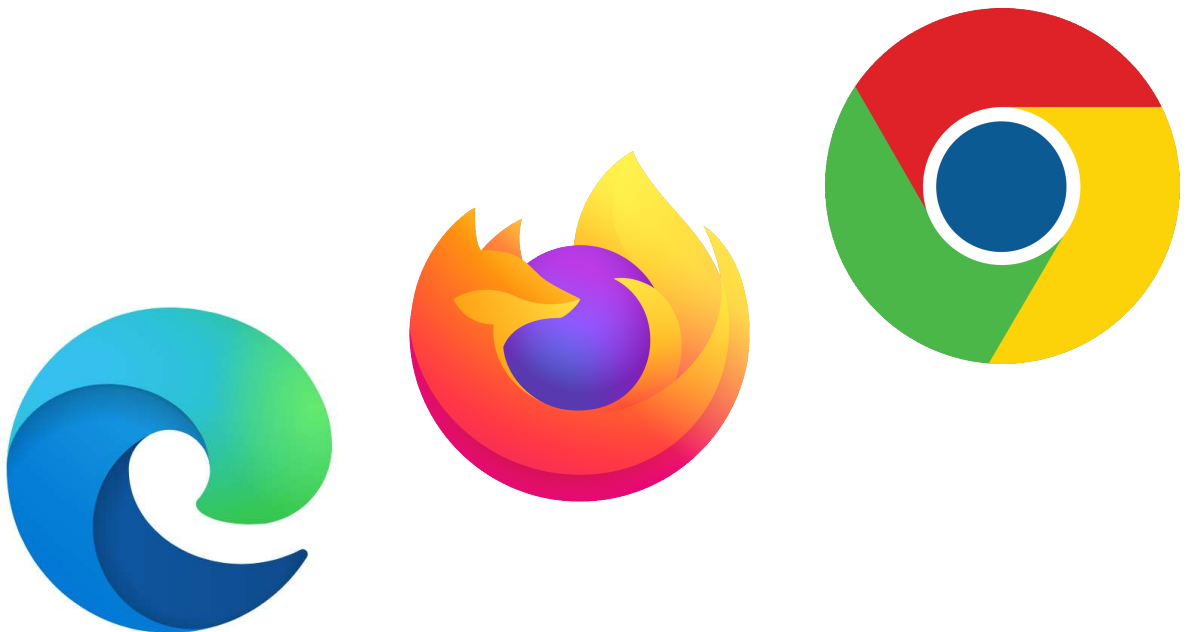## 5.1 Preliminary operational concept

Tuesday, February 28, 2023   7:47 PM

Students will be the users and they will have access to interact throughout all the website's pages. They will be capable of Reading displayed information, access provided links and watch videos on the page. The website will be a view and interact only for the students as they will not be allowed to add to the site or edit.

The system will be like a Canvas-like environment which will be able to be accessed through the browsers: Chrome, Firefox, and Edge. Under FERPA, students' personal information will not be shared. Florida Gulf Coast University's logo will not be used to follow FTC's website policy.

 As for the client, he will be also the one maintaining and adding to the site. He will have access to edit files and information, etc. Staff will include students from servicer learning. They will have access to edit or change anything on site if provided by professor Greenwell.

The support environment is completely controlled by professor Greenwell. Any issues or complications that are reported will first go through him. Once he receives the information he can handle the situation himself or use the staff to work or improve on the issue.

5.2 Preliminary operational scenarios

Tuesday, February 28, 2023   7:47 PM

The operational concept will be what the user see and interacts with on the website. For Professor Greenwell's website, the targeted audience are students enrolled in his classes. While connected to the internet, students will be able to access the website provided by Professor Greenwell's courses through Canvas. The students will see a modernized interface that gives a familiar feeling similar to Canvas. While on the site, they will have access to information on the site, but also the ability to leave the sight through external links to access further information provided. On the website, there will be videos that are integrated through apps such as YouTube.

When the student enters the website they will be greeted by a home page that will display a side tab on the corner. On the main part of the page, there will be a biography on the professor his contact info and a picture of him. If the side tab is opened, there will be a side bar that gives you options to pick from which includes teaching and courses, Academic Resources, and CV. For example, Teaching and courses when clicked would take you to that page. On this page, it would display the side bar giving you the options to go back to home, go to CV page or Academic resources page. On the main part of the page, the courses will be displayed with a lowering tab option. If tab option is clicked, it will lower a tab with the options overview, syllabus, and assignments. This tab like option and the usability to go back to the home page or any other page will always be available, no matter what page you're on. Every section will have information that the student will be able to interact with.

As for the client and staff, this will be Professor Greenwell and students from service learning. They will have the same options as the users (students) but they will be capable of making any changes. This could include changing courses, adding material, etc. Any changes would have to be done or approved by Greenwell as this is his personal site.

6. Other preliminary life-cycles

Tuesday, February 28, 2023 7:47 PM

6.1 Preliminary acquisition concept

Tuesday, February 28, 2023   7:47 PM

The website is outdated and needs an updated look and interface. Starting with the professor's picture, we need one that is up to date and that properly represents him. The system of going back and going to the home page does not exist. This is fixed with a home button and back button on the top left of the page. Integrated videos and links need to be redone to give a more professional look. A tab system for classes needs to be added instead of you clicking a source then looking at the side bar and clicking different option. The courses when displayed should also be clickable to show options. Currently, you click them and nothing occurs. PowerPoint shouldn't be just added on the middle of the page. Information that is given will be given in a page like format.

6.2 Preliminary deployment concept

The website will be given back with a modern look and a workable and accessible interface. The user will be able to interact with the website and its options smoothly and without hassle. All links and 'Clickable optional' will be working. Navigating back and forth through the website will be easy do to the side drop and top drop tabs provided for clickable options. The drop tabs allow for the user to click on specific sections where they will be able to interact with the desired information. The front, back and home clicks will also benefit the navigation system.

6.3 Preliminary support concept

Tuesday, February 28, 2023   7:48 PM

Through the service learning staff and professor Greenwell the information provided on the site will be up to date and current. For example, the courses shown will be the courses that he is teaching, not past courses. Most of the editing and adding of information will be done through HTML and Java Scripts. It is expected that the students working on the website will have some familiarity with the tools used to maintain and edit the site. Once again, this will all be under the command of professor Greenwell.

6.4 Preliminary retirement concept

Tuesday, February 28, 2023   7:48 PM

Professor Greenwell owns and maintains the website. He plans on keeping the website operational as long as he is teaching. Due to life events, it is possible that the website will remain up for longer or vice versa. The life cycle of the website is under the hands of the product owner.

7. Project Constraints

Tuesday, February 28, 2023   7:48 PM

The project will be executed by student learning services, which is a volunteering service at FGCU. There is absolutely no cost to the workforce. The issue comes into place when it comes to hiring qualified individuals to do the job. As there is no pay motivation for students to perform well and show up could be at jeopardy. Finding the right individuals to work on the project could be a difficult task. As for keeping the website running, professor Greenwell pays for the full cost of keeping the website up. As long as professor Greenwell's economy allows for him to pay for the website being up, running it should not be an issue. Any trouble caused by the company who keeps the website on the web can be fixed by finding another company.

8. Appendix

Tuesday, February 28, 2023   7:48 PM

8.1 Acronyms and abbreviations

Tuesday, February 28, 2023   7:48 PM

- CV, or Curriculum Vitae. CV is an option on the side tab and will display Professor Greenwell's Resume. This include Education, Academic and Industry experience, Honors and Awards, Service Activities, and Recent Development Activities.

- FERPA, or the Family Educational Rights and Privacy Act.

- FTC, or the Federal Trade Commission.