

EE / CprE / SE 491 Weekly Report 3

Feb 14th - Feb 20th

Team 14

Project: Website Platform Migration

Client: John Stuijbergen, Buildertrend

Advisor: Dr. Judith Islam

Team Members:

Danh Hoang: Project Coordinator

Piper Ideker: Implementation and Component Designer.

Bryant David: Design and implementation

Chiran Subedi: Theme design

Weekly Summary:

Past Week Accomplishments (Team):

- Created the overview that we will put on our team website
 - The primary audience of the overview is our advisor and anyone who wants to understand our project better. The overview also includes resources that we will be using.

Pending issues:

- We haven't received a list of sites that John would like us to work on first
 - Solution: John is currently on vacation. Once he returns, we will reach out to him and ask him for the sites.
 - In the meantime, we can still work on some of the sites on the original list that we were given
- Some Plugins and software that we need to start working on the sites are not accessible to us yet
 - Some require payments which John has not discussed with us yet
 - We haven't been given a clear date of when we will have access to flywheel
 - Flywheel would help us develop the sites as we can share and work on it together
 -

Individual work:

Danh Hoang, Feb 14th:

- Researched security risks that we should be cautious about when using WordPress

- One of the things we should look out for is the plugins that we will use. Some of them have vulnerabilities.
- Since WordPress has so many possible extensions, we need to keep in mind that not every plug-in is secure or safe
- One thing that we should look out for is how old the plugin is. If it's old, then we most likely can't use it anyway, but it may have been hacked or corrupted. Another thing we need to look for is the popularity of the plugin. The last thing I came across was if possible, we should update the plugins frequently because the updates may have bug and vulnerability fixes.

Piper Ideker, Feb 16th:

Since John hasn't given us access to Elementor, I decided to look up some tutorials in preparation. I first watched Elementor Academy's playlist of tutorials: <https://elementor.com/academy/getting-started-pro/> which covered multiple topics like how to apply a theme, building the website for desktop, mobile and tablet, along with how to build your own template (if needed). I found it pretty useful, and it covered the majority of my questions about building a website on a tablet.

Danh Hoang, Feb 16th:

- Looked for how we could automate the migration of the websites
- <https://www.mobilize.net/resources/guides/faqs/automated-migration>
- I found a couple of WordPress that allows for automated website migration. I'll need to do more research because I'm not sure how they work
 - Another issue is these plugins cost money
- A lot of what I found are companies offering website migration services rather than a way to automate it

Danh Hoang, Feb 18th:

- I couldn't find any methods to automate transfer websites yet, so I just spent time looking over the sites we were given to migrate
 - An idea that we could do is create a few general themes that fit with the sites so we can add the pictures and text easier
 - The original sites were only made by a few people so they share some similarities in appearance and structures
 - The approach to this is we can go through the sites and sort them out based on similarities. From there, we can construct the general themes and alter them as needed for the sites
 - The main drawback to this idea is that we would still have to manually enter the different text and pictures. We will also have to look through every site and identify their similarities

Piper Ideker, Feb 20th:

- Briefly looked at tutorials for flywheel. Flywheel has an official YouTube channel and I watched some videos: <https://www.youtube.com/@FlywheelHosting>. This is another thing that John hasn't given us access to, but I can at least know what to do when he gives us access.

Bryant David, Feb 14th - 20th:

- The project we are handling as a team needs a lot of authentication and access to the softwares and platforms that our client and his company already paid for like Elementor, Flywheel collaborator account etc. For now, we are limited as to what we can do as a team since John (client) is not available. He has previously given us some headway as to what his expectations are in our previous meetings but not total access to the softwares and tools we need for the project. These are questions and demands we will be presenting to him in our next meeting when he returns.
- I have done several researches and tutorials on wordpress, flywheel, elementor, and duda in preparation on how these tools work and integrate to get us on a professional level when we fully commence on our project of web migration.
- Just like in our last report, unfortunately, we do not have much to report on till the return of John (client) to give us directives as to what sites should be worked on first, and access to some of these tools, apps, and platforms.

Chiran Subedi, Feb 14th - 20th:

- Because we don't have access to flywheel at the moment, I decided to venture into the local version of the software to test it out.
- I created a wordpress website from the local flywheel app while testing and refreshing myself on wordpress.
- I looked further into Elementor. While we aren't currently able to use it, it'd be good to have the knowledge for after our meeting with John.

Name	Contribution	Hours this Week	Cumulative Hours
Piper Ideker	<ul style="list-style-type: none"> • Researched Elementor 	2	12
Danh Hoang	<ul style="list-style-type: none"> • Researched the plugins and automation possibilities 	3.5	12.5
Bryant David	<ul style="list-style-type: none"> • Researched on plugins, duda, elementor, migration techniques, 	3	13

	flywheel		
Chiran Subedi	<ul style="list-style-type: none"> Hands on wordpress and flywheel 	4	12

Plans for the upcoming week:

- Contact John about the issues with the plugins and software that we will be using
 - Checking when we will get access to the Flywheel collaborator account
 - How to install some of the premium plugins
- Work on some of the chosen websites chosen by John (client)
 - Hands-on practice and use of WordPress and some plugins like Elementor
 - Design some themes and brainstorm some ideas to migrate websites efficiently
 - Share what we worked on with John in our next meeting
- Put an overview of our project on our team page for our advisor
 - Spend some time working on an explanation of what we are doing, along with some of the software and platforms we are using
 - The goal is so that our advisor gets a better grasp on what we are doing since her only source of information was the brief description
- Spend time brainstorming some ideas to migrate the websites more efficiently
 - This will likely take a few weeks of additional research and after spending some time directly working with WordPress
- Continue looking for how we can potentially automate the site migration process

Summary of advisor meeting:

- During our advisor meeting our advisor suggested that we also get familiar with Duda (The previous web platform that Buildertrend used)
 - This is so we can understand the carryovers of some of the functionalities and the pros and cons of each platform
 - We can also identify potential constraints when the sites were made on Duda vs WordPress. This gives us the opportunity to improve on the sites