

Spring 2022 Senior Project
Weekly Status Report
Money Opportunity Application
Project URL (<https://github.com/KellyK81/senior-project475>)

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WEEK 13(April 26- May 2)

A. Weekly Accomplishments

Describe what task was completed and by whom. In parenthesis, provide the number of hours the team member worked on the specific task.

- 1) Gaganpreet completed the API integration. Also, worked and completed functionality to search jobs. Gaganpreet worked and completed the calculator page layout.
- 2) Nathaniel is finished with the calculator with help from Veronica.
- 3) Veronica completed fixing the recursive error by adding the retirement age and current age within the retirement formula by subtraction both the retirement age and the current age and then by multiplying the answer to the rest of the formula. Veronica added a few parentheses that were missing in the retirement equation. Veronica also looked at videos on learning how to calculate for retirement.

B. Problems/Issues

Describe the problem/issue, who is working on it, what is the cause, what has been tried to solve it, expected resolution. Explanation on how it affects project schedule.

- 1) Gaganpreet did not have any issue.
- 2) Nathaniel had no problems.
- 3) Veronica did not have any problems other than with finding the best way to have the formula correct.

C. This week's planned work

What do you plan to work on next week? If you have pending issues from section B, how will they affect next week's plan?

- 1) Gaganpreet will work on a demo for a presentation. Also, integrate the code for calculator and work on project documents.
- 2) Nathaniel will practice with his teammates for the presentation and demo
- 3) Veronica will work on the presentation as well as practicing with group members for the demonstration on friday. Veronica will push the retirement calculator code to Github.

D. Time log

Total Number of Hours worked on the project this week per team member

Gaganpreet Kaur: 8 hours, Nathaniel Rowe: 2 hours, Veronica Stewart: 4 hours

WEEK 12(April 19- April 25)

A. Weekly Accomplishments

Describe what task was completed and by whom. In parenthesis, provide the number of hours the team member worked on the specific task.

- 1) Gaganpreet worked on the job search API. Also, helped peers fix their local environment.
- 2) Nathaniel is still working on the calculator.
- 3) Veronica is able to view the dashboard with the help of Gaganpreet. Veronica found two more APIs with a key for job search listings to test the API connections. Veronica test one and it did not work.

B. Problems/Issues

Describe the problem/issue, who is working on it, what is the cause, what has been tried to solve it, expected resolution. Explanation on how it affects project schedule.

- 1) Gaganpreet did not have any issue.
- 2) Nathaniel still has the recursive code issue
- 3) Veronica had problems with the job search engine API key with the help of Gaganpreet, the news API key works but it shows news about jobs not specially about the specific jobs based on the keyword. This will be resolved by testing two more API keys that will focus more on the job search. If one of the APIs works then Veronica will just use that API instead if not then Veronica will just use the API key that was already tested.

C. Next week's planned work

What do you plan to work on next week? If you have pending issues from section B, how will they affect next week's plan?

- 1) Gaganpreet plans to work developing the website and make further changes.
- 2) Nathaniel will finish the calculator and make sure it works as it's intended and make sure that the dashboard works on his computer.
- 3) Veronica will discuss with group members which API they prefer based on the results of the API since after testing the news api it just shows results of jobs that are in the recent news. Veronica will have 2 more APIs tested that she found and have the group decide which API is best for our application.

D. Time log

Total Number of Hours worked on the project this week per team member

Gaganpreet Kaur: 4 hours, Nathaniel Rowe: 3 hours, Veronica Stewart: 6 hours

WEEK 11(April 12- April 18)

A. Weekly Accomplishments

Describe what task was completed and by whom. In parenthesis, provide the number of hours the team member worked on the specific task.

- 1) Gaganpreet has been working on making some fixes to the website along with some development.
- 2) Nathaniel has been looking for many additional ways to add the recursive while loop into the retirement calculator
- 3) Veronica found an API connection and has the API key that is used for a list of job postings for the API connection which is a news job API.

B. Problems/Issues

Describe the problem/issue, who is working on it, what is the cause, what has been tried to solve it, expected resolution. Explanation on how it affects project schedule.

- 1) Gaganpreet did not have any issue.
- 2) Nathaniel still has the recursive code issue
- 3) Veronica had problems with viewing the dashboard due to an error when migrating php artisan which doesn't allow me to view the mysql database and this will be solved tomorrow with the help from Gaganpreet in the morning. .

C. Next week's planned work

What do you plan to work on next week? If you have pending issues from section B, how will they affect next week's plan?

- 1) Gaganpreet plans to work developing the website and make further changes.
- 2) Nathaniel will finish the calculator and make sure it works as it's intended
- 3) Veronica will get the viewing of the dashboard when logging into our web application resolved tomorrow and will then help Nathaniel so that the retirement calculator problem can be resolved and finalized this week.

D. Time log

Total Number of Hours worked on the project this week per team member

Gaganpreet Kaur: 4 hours, **Nathaniel Rowe:** 3 hours, **Veronica Stewart:** 6 hours

WEEK 10(April 5 - April 11)

A. Weekly Accomplishments

Describe what task was completed and by whom. In parenthesis, provide the number of hours the team member worked on the specific task.

- 1) Gaganpreet worked on adding the code from the retirement calculator to our web application as well as a small example of the job search example by showing an example of a specific and details about the job. Gaganpreet also showed the demo portion for the demonstration with group members.
- 2) Nathaniel worked on the recursive code for calculator and is trying different languages for the while loop.
- 3) Veronica worked on trying to find other alternatives for job postings and is still trying to find the best solution for a list of job postings that does not need company credentials. Veronica presented the demonstration with group members.

B. Problems/Issues

Describe the problem/issue, who is working on it, what is the cause, what has been tried to solve it, expected resolution. Explanation on how it affects project schedule.

- 1) Gaganpreet had a few issues trying to add the retirement calculator on our web page but was able to resolve the issue by adding the html code of the retirement calculator.
- 2) Nathaniel still has the recursive code issue
- 3) Veronica needs to have an alternative for the job postings with connecting to an API. Veronica has been researching to find the best alternative.

C. Next week's planned work

What do you plan to work on next week? If you have pending issues from section B, how will they affect next week's plan?

- 1) Gaganpreet will work on making final edits and helping both group members by finding the best solution to their problems as well as pulling the code that the group members will push to github.
- 2) Nathaniel is researching ways to add a recursive code to the calculator so that it can calculate the total retirement savings.
- 3) Veronica will continue to find the best alternative for the job postings as well as connecting to an API.

D. Time log

Total Number of Hours worked on the project this week per team member

Gaganpreet Kaur: 6 hours, **Nathaniel Rowe:** 4 hours, **Veronica Stewart:** 6 hours

WEEK 9(March 29 - April 4)

A. Weekly Accomplishments

Describe what task was completed and by whom. In parenthesis, provide the number of hours the team member worked on the specific task.

- 1) Gaganpreet worked on developing and extending the User Interfaces to capture multiple entries of User income, expenses, and other relevant details. Also, writing controller and Model classes to process user info, income, and expenses. Gaganpreet worked on allowing user to modify the user profile data. Also worked on displaying some data on User Dashboard like monthly income, monthly expenses, monthly savings along with a pie chart to show distribution.
- 2) Nathaniel worked on making edits to the retirement calculator. Nathaniel worked on the powerpoint with Veronica for the midterm presentation.
- 3) Veronica worked on finding an API connection for a job search engine by researching over 20 different websites to find at least one API connection to connect to our web application and getting an API key. Veronica worked on creating the powerpoint template for our demonstration and worked on the midterm assignment.

B. Problems/Issues

Describe the problem/issue, who is working on it, what is the cause, what has been tried to solve it, expected resolution. Explanation on how it affects project schedule.

- 1) Gaganpreet unable to get the API for pulling the job search data.
- 2) Nathaniel still has the recursive code issue
- 3) Veronica has had a few issues with finding a search engine for the job search. Many companies and job search engines require an actual company to use their API connection. Veronica resolved this issue by giving a description of our web application when requesting the API key for the use of our class project.

C. Next week's planned work

What do you plan to work on next week? If you have pending issues from section B, how will they affect next week's plan?

- 1) Gaganpreet plans to work on further advancing the dashboard to display graph and other relevant data.
- 2) Nathaniel plans to work more on the recursive code for the calculator
- 3) Veronica plans to fix the layout of our homepage and help Nathaniel with the retirement calculator to make the calculator more efficient.

D. Time log

Total Number of Hours worked on the project this week per team member

Gaganpreet Kaur: 10 hours, Nathaniel Rowe: 3 hours, Veronica Stewart: 7 hours

WEEK 7-8(March 15 - March 28)

A. Weekly Accomplishments

Describe what task was completed and by whom. In parenthesis, provide the number of hours the team member worked on the specific task.

- 1) Gaganpreet worked on developing a Dashboard page for displaying all the statistics. Also, completed the user interface pages for registration to capture user profile data like skills, income sources, and expenses.
- 2) Nathaniel got the calculator working and it's able to calculate how much money someone will have after one year depending on how much their savings are and their annual deposit.
- 3) Veronica researched which websites were commonly used for connecting to APIs for a list of jobs. Veronica worked on trying to connect to a career search application such as glassdoor and indeed.com. Veronica researched open source websites that explains information about finance and savings that could be added to our web application.

B. Problems/Issues

Describe the problem/issue, who is working on it, what is the cause, what has been tried to solve it, expected resolution. Explanation on how it affects project schedule.

- 1) Gaganpreet worked on building models and controller classes for registration pages like income, expenses, and skill.
- 2) Nathaniel had a problem with having the calculator calculate recursively depending on the retirement age - current age.
- 3) Veronica had a problem with finding a website to use to connect to the API such as indeed and glassdoor. When signing up and logging into Glassdoor the API, Glassdoor is not accepting any requests at this moment. When signing up and logging in indeed, it says a profile is needed to create an account for my company's page and upload it on indeed and I would not want to do that because our web application is not official and we do not have an LLC. Veronica will talk with group members and find another alternative for the job search engine that we would like to have displayed on our web application.

C. Next week's planned work

What do you plan to work on next week? If you have pending issues from section B, how will they affect next week's plan?

- 1) Gaganpreet continues to finish the model and controller classes and show some data on the dashboard like income, projected retirement income.
- 2) Nathaniel plans to figure out the issue with the recursive calculations and apply it to the calculator.
- 3) Veronica will continue to resolve connecting to the api for the job search of lists of jobs and she will have a list of tips from secure websites about savings and retirement to our web application.

D. Time log

Total Number of Hours worked on the project this week per team member

Gaganpreet Kaur: 6 hours, **Nathaniel Rowe:** 4 hours, **Veronica Stewart:** 6 hours

WEEK 6(March 8 - March 14)

A. Weekly Accomplishments

Describe what task was completed and by whom. In parenthesis, provide the number of hours the team member worked on the specific task.

- 1) Gaganpreet was able to complete the sign up form and the signin form. Gaganpreet was able to find a template of a homepage that works for our web application.
- 2) Nathaniel was able to find a good equation for the calculator and decided to use HTML and JavaScript to build it. Nathaniel completed the SPIRE proposal form which was due on Friday.
- 3) Veronica was able to understand how the database works when using laravel and tested whether the database saved data from the sign up sheet and login.

B. Problems/Issues

Describe the problem/issue, who is working on it, what is the cause, what has been tried to solve it, expected resolution. Explanation on how it affects project schedule.

- 1) Gaganpreet did not have any problems or issues with using Laravel.
- 2) Nathaniel had one problem with trying to implement it into the code and will resolve this as he is working on it
- 3) Veronica had one problem with trying to connect to the database and migrate here database php files but she realized with Gaganpreet's help those files were not needed because it was already created.

C. Next week's planned work

What do you plan to work on next week? If you have pending issues from section B, how will they affect next week's plan?

- 1) Gaganpreet will plan to work on creating the homepage(3rd) page by splitting up tasks with Veronica on the homepage such as after the user logs into their account.
- 2) Nathaniel will plan to continue working on the calculator by using the equation and testing to see if the calculator works correctly.
- 3) Veronica will plan to work on part of the homepage and work on the job search section of the homepage as well as working with Gaganpreet to understand how to use Laravel with creating specific pages.

D. Time log

Total Number of Hours worked on the project this week per team member

Gaganpreet Kaur: 4 hours, **Nathaniel Rowe:** 4 hours, **Veronica Stewart:** 5 hours

WEEK 5(March 1 - March 7)

A. Weekly Accomplishments

Describe what task was completed and by whom. In parenthesis, provide the number of hours the team member worked on the specific task.

- 1) Gaganpreet worked on creating the user interface for the login and started finding a Laravel template that would help to use for the homepage of the web application.
- 2) Nathaniel was able to get Laravel working with the aid of Gaganpreet. Nathaniel was also able to get the GitHub repository working and connect to Docker.
- 3) Veronica has been able to get Laravel set up with the help of Gaganpreet. Veronica has been familiar with working with Larvel and has been communicating with Gaganpreet on the backend for the User interface of the login and sign up sheet that Gaganpreet is working on.

B. Problems/Issues

Describe the problem/issue, who is working on it, what is the cause, what has been tried to solve it, expected resolution. Explanation on how it affects project schedule.

- 1) Gaganpreet did not have any problems or issues with working with Laravel but helped peers resolve the Laravel setup.
- 2)Nathaniel did not really have many problems with the setting up of Docker or the GitHub repository cloning.
- 3) Veronica had a few problems with trying to figure out how to connect to Laravel but she received help from Gaganpreet. Veronica also had a small problem with connecting to the database and creating a database with Laravel but she was able to use the guidance documentation from Laravel about databases.

C. Next week's planned work

What do you plan to work on next week? If you have pending issues from section B, how will they affect next week's plan?

- 1) Gaganpreet will continue to work on the signup sheet for the user interface as well as the homepage of the web application.
- 2) Nathaniel plans to work on the retirement calculator using either PHP or JavaScript and make a minimum viable product.
- 3) Veronica will have the user interface complete and migrate the database to mysql to confirm that the tables are uploaded as well as pushing the php file and confirming with Gaganpreet that the backend for the user interface saves with the user login and registration form.

D. Time log

Total Number of Hours worked on the project this week per team member

Gaganpreet Kaur: 4 hours, **Nathaniel Rowe:** 4 hours, **Veronica Stewart:** 5 hours

WEEK 4(FEB 22 - FEB 28)

A. Weekly Accomplishments

Describe what task was completed and by whom. In parenthesis, provide the number of hours the team member worked on the specific task.

- 1) Gaganpreet have implemented Authentication and Authorization functionality along with Login, password reset, backend tables for these features. Also, setup the code base to use Laravel as the framework.
- 2) Nathaniel has successfully got Docker working and was able to clone the Git repository.
- 3) Veronica followed the instructions to set up Docker with the help of Gaganpreet. Veronica has also been trying to get Laravel set up and connected to Docker.

B. Problems/Issues

Describe the problem/issue, who is working on it, what is the cause, what has been tried to solve it, expected resolution. Explanation on how it affects project schedule.

- 1) Gaganpreet resolved the issue with docker setup and updated the readme document.
- 2) Nathaniel had a problem with cloning the repository, but received help on how to do it.
- 3) Veronica has had a problem with using the docker execute command and there is an error which states that there is an unknown file that exists.

C. Next week's planned work

What do you plan to work on next week? If you have pending issues from section B, how will they affect next week's plan?

- 1) Gaganpreet will help peers to setup the application on their local and continue working on the website.
- 2) Nathaniel will need to get Laravel set up and start on making the retirement calculator. If Laravel can't be set up, we may have to go to a virtual machine.
- 3) Veronica will meet one more time with Gaganpreet to resolve the issues with setting up Laravel and if not as a group we will start to use a virtual machine so that Veronica can access the Docker files to continue setting up the homepage and making edits as well as using Laravel as a wireframe.

D. Time log

Total Number of Hours worked on the project this week per team member

Gaganpreet Kaur: 4 hours, **Nathaniel Rowe:** 3 hours, **Veronica Stewart:** 3 hours

WEEK 3(FEB 15 - FEB 21)

A. Weekly Accomplishments

Describe what task was completed and by whom. In parenthesis, provide the number of hours the team member worked on the specific task.

- 1) Gaganpreet set up the Docker environment and pushed all code to Github. Also, helped the team set up the environment and troubleshoot the issues. Gaganpreet will continue working on UI templates.
- 2) Nathaniel downloaded Docker in order to have containers for the code to push to GitHub. Nathaniel also was figuring out what specific details to put in the retirement calculator.
- 3) Veronica downloaded Docker to use as a local host and was able to connect her ssh key to Github. Veronica was able to connect to our repository of Github. Veronica has been making a few edits to the homepage for our webpage.

B. Problems/Issues

Describe the problem/issue, who is working on it, what is the cause, what has been tried to solve it, expected resolution. Explanation on how it affects project schedule.

- 1) Gaganpreet did not have any problems or issues with downloading Docker or connecting to Github.
- 2) Nathaniel had a problem with Docker; Docker required him to enable Virtualization in the BIOS of his laptop and was not able to find a way yet.
- 3) Veronica had a problem with Docker failing to read a front end Dockerfile and is still continuing to have this same problem. Veronica has looked online and received help from Gaganpreet and still is having the same trouble. The resolution is to try one more time with resolving this issue by getting help from Gaganpreet again and then if not we will decide to use another local host.

C. Next week's planned work

What do you plan to work on next week? If you have pending issues from section B, how will they affect next week's plan?

- 1) Gaganpreet will finish the UI template and connect. Gaganpreet will also connect to the database using MYSQL..
- 2) Nathaniel is planning to get the Virtualization in his laptop up and running so that the group can either use Docker or a virtual machine to push code to GitHub. Nathaniel will see if the whole group can agree to use XAMPP as our local host.
- 3) Veronica will try one last time on February 22, to figure out why her computer can not read the Docker file and if not as a group they will agree to use XAMPP and then continue with receiving the UI from Gaganpreet and connecting to Laravel to help aid with the creating the homepage our website. If we decide to use XAMPP she will also connect to Github with visual studio code to upload code.

D. Time log

Total Number of Hours worked on the project this week per team member

Gaganpreet Kaur: 3 hours, **Nathaniel Rowe:** 3 hours, **Veronica Stewart:** 4 hours

WEEK 2 (FEB 7 - FEB 14)**A. Weekly Accomplishments**

Describe what task was completed and by whom. In parenthesis, provide the number of hours the team member worked on the specific task.

- 1) Gaganpreet set up the local environment and connected to the database. Also, showed the team to create the SSH key and connect to GitHub. Gaganpreet started on the UI of the website.
- 2) Nathaniel successfully connected to the database using XAMPP. Nathaniel also learned and created a key to connect to GitHub to add code to it.
- 3) Veronica completed connecting to the database and using XAMPP as the local host to use MYSQL. Veronica also showed group members how to use XAMPP and how to create data in order to connect to the database and verifying that it is connected by testing it. Veronica created an SSH key and connected GitHub to Visual Studio Code.

B. Problems/Issues

Describe the problem/issue, who is working on it, what is the cause, what has been tried to solve it, expected resolution. Explanation on how it affects project schedule.

- 1) Gaganpreet did not have any problems or issues with the UI.
- 2) Nathaniel had a problem with connecting to the database because it had a problem with the code. With the aid of Veronica, Nathaniel was able to connect to the database.
- 3) Veronica had a problem with verifying that the database was connected but it was resolved when not realizing that the file that she was trying to connect to which is the dbconnect.php was in a different directory. Veronica also had an issue with trying to finalize pushing the dbconnect.php to GitHub so instead she just uploaded a file to Github which is the php document.

C. Next week's planned work

What do you plan to work on next week? If you have pending issues from section B, how will they affect next week's plan?

- 1) Gaganpreet plans to finish the UI and start on the next phase of the website.
- 2) Nathaniel will need to get used to the database so that he can be able to work more efficiently and be able to code in it and upload to GitHub.
- 3) Veronica will connect both the user interface (that Gaganpreet created that consists of signing up) and the database to make sure it saves users information when it is inserted. Veronica will also start working on the part of the homepage of the website.

D. Time log

Total Number of Hours worked on the project this week per team member

Gaganpreet Kaur: 3 hours, **Nathaniel Rowe:** 2 hours, **Veronica Stewart:** 3 hours

WEEK 1 (JAN 31 - FEB 7)

A. Weekly Accomplishments

Describe what task was completed and by whom. In parenthesis, provide the number of hours the team member worked on the specific task.

- 1) Gaganpreet worked on creating the entity relationship diagram (ERD) that displays the relationships of the entity sets that are stored in a database. (2 hours)
- 2) Nathaniel completed a mapped diagram on which the group will be basing the website application on. The mapped diagram represents the logic of the system. (1 hour)
- 3) Veronica completed the wireframe for the layout of how the website will be displayed based on the discussion with group members ideas before working on the wire frame. She used a website called Micro and the wire frame includes the homepage and two other pages that will be displayed when the user clicks on the retirement and interests tab. (1 hour)

B. Problems/Issues

Describe the problem/issue, who is working on it, what is the cause, what has been tried to solve it, expected resolution. Explanation on how it affects project schedule.

- 1) The problem was the main goal of our project and understanding of the logic of our project. The cause was that we were not clear and specific of what we wanted for our website which affected the start of the project. As we discussed and worked as a group. Gaganpreet created an ERD diagram to display which relationships are connected and how relationships of entities are stored to have a clearer understanding of what's needed.
- 2) The architecture of the diagram was missing and it was resolved by Nathaniel creating a mapped diagram based on our project discussion as a group and with our professor.
- 3) The framework of the project was missing and Veronica resolved this problem by creating a wireframe diagram. Now we have a better approach and a more clear idea for what the next steps will be needed for this project.

C. Next week's planned work

What do you plan to work on next week? If you have pending issues from section B, how will they affect next week's plan?

- 1) Gaganpreet will plan to work on the UI that will consist of a form that the user will submit and connect to the Pluto server.
- 2) Nathaniel will plan to connect to the Pluto server and get MySQL downloaded so he can get started using the database.
- 3) Veronica will plan to work on making sure connections are connected such as pluto and then begin to set up the backend database with MYSQL to Javascript.

D. Time log

Total Number of Hours worked on the project this week per team member

Gaganpreet Kaur: 2 hour, **Nathaniel Rowe:** 1 hour, **Veronica Stewart:** 1 hour