



| Module | Portfolio | Assessment Type |
|------------------------------------|-----------|-------------------|
| Collaborative Development (5CS024) | 1 | Individual Report |

[Tax Calculator System (Frontend Developer)]

Student Id : [unv\2050214]

: [Yogesh Shrestha] Student Name

Section : [L5CG8]

Group : [L5CG8 Group F]

: [Mr. Biraj Dulal] Module Leader

Lecturer : [Mr. Uday kandel]

Acknowledgement

I would like to express my very great appreciation to all those people who provided me with the possibility to complete this report.

A special gratitude I give to our module leader "Mr Biraj Dulal" lecturer Uday and GTA Rupesh shrestha, whose suggestions and encouragement aided me in coordinating my project, particularly in the writing of this report. Advice given by "Mr Biraj Dulal" has been a great help in creating a proper report format. I am particularly grateful for the assistance given by GTA "Rupesh Shrestha". Assistance provided by lecturer "Mr Uday Kandel" was greatly appreciated. A special thanks go to my friends and group members who help me, directly and indirectly, to assemble the parts and help to complete this report.

Self-appraisal form

| Student number | | Name | Yogesh Shrestha |
|-----------------|-----------------------|------|-----------------|
| Project | Tax Calculator System | Date | 04/16/2021 |
| Role | Frontend Developer | Team | L5CG8 (group F) |
| Sprint (1 or 2) | 1 | | |

Personal objectives – performance measurement

| Objectives | Evidence provided | Evaluation | |
|-------------------------------------|--|-----------------|--|
| | | Student / tutor | |
| Choosing right technologies | I choose visual studio code over sublime text as code editor software to building this project. This editor is easy to use, it autocompletes some codes, and arrange code in the proper format. It is also supportive in GitHub to easy comment. The extension named "live server" is very helpful while coding. And I use HTML, CSS to building this project. It is necessary to structure of webpage and design of the webpage. **Link to the Choosing right technology report (Appendix A)** Choosing for the relevant technologies | 10 | |
| Tutor feedback: | | | |
| Implementing functional requirement | As a function requirement, I have provided every essential part of this project. Codes are easy to understand and have given comments so that group members can understand them easily. Codes work fine and CSS design is satisfying. As for version control, we have to use GitHub in the building process of this project. GitHub is very useful and safe in collaboration work on code. I have attached screenshots of my codes and use of GitHub as evidence. **Link to the Implementing functional requirement (Appendix A)** Codes and their explanation | 9 | |

| Т | This is the HTML code of the Tax Calculator System. | | | |
|-----------------|--|-----|-----|--|
| I | nside HTML body, header, section, aside, footer tag is | | | |
| u | used. There are three main parent class i.e. header, main | | | |
| a | and footer. Each class contains with class name | | | |
| c | container that maintains the width of the webpage. | | | |
| I | Inside the header tag, the logo and navigation links are given. Inside main class tax calculator system and side | | | |
| g | | | | |
| n | news is made. And inside footer copyrights are made. | | | |
| E | External CSS link is given. The CSS file name is | | | |
| Si | style.css where contains designing and styling. Use of | | | |
| V | Version control | | | |
| | | | | |
| Tutor feedback: | | | | |
| | | | | |
| | | /19 | /20 | |
| | | | | |

Good communication and file sharing

As good communication I and my team have a conversation in basecamp, we created the group on social media i.e. Facebook and we also use discord to communicate with each other. We shared many ideas in conversation and we suggest many things to each other. And use GitHub to share and check code files. As evidence, I have provided screenshots of conversation done in basecamp and social media to explain what we were conversing.

**Link to the good communication evidence (Appendix B) **

Evidence of good communication

Continuing Personal Development (CPD)

For the development of the frontend, I have done many types of research like; search on google to know the way of something to do, watch youtube videos, study books and join online courses. Using these resources, I found, and understand many things and used that knowledge to develop this project. I have learned label tag, CSS display flex, layouts, input tag etc.

**Link to the report of continuing personal development (Appendix B) **

Evidences of Continuing Personal Development (CPD)

Issue tracking

While working on the project, some issue occurs. BA finds out that the positions and shapes of buttons were inaccurate and unacceptable. So, I fix that issue by re-coding it. then, another issue occurred i.e. repository cloning do not clone with the file which was assigned by the developer and I understand and fixed it by creating a new repository excluding folder. I have attached screenshots of issues and fixation of the issue as evidence.

Link to the issue tracking file (Appendix B)

Evidences of Issue tracking

Appendix A

Choosing for the relevant technologies

Codes can be written anywhere but to write and run the codes editor software is needed. For coding, there are the following editors i.e. Sublime Text, Visual Studio, Atom, etc.

I choose Visual Studio Code as my code editor because it is open-source software. It is very powerful software that is made to handle complex and large projects. It has built-in Git Support which handles a bit small number of interesting tasks, like fast Git commit or opening and sorting content from multiple folders. And it also of features known as 'IntelliSense' features which help in auto-completion of code

I do not choose another editor because the sublime text has fewer features than visual studio and it is not a completely free, nagging popup. I could use 'atom' as an editor which was integrated with git and GitHub but it is slow in the launching process and has historical performance issues.

To develop this project I choose HTML, CSS because these languages are necessary and needed to struct, design, set behaviour and content in web development. Html is used to structure a web page and its content and CSS is used for describing the presentation of web pages, including colour, layout, and fonts.

Implementing functional requirement

Codes and their explanation

This is the HTML code of the Tax Calculator System. Inside HTML body, header, section, aside, footer tag is used. There are three main parent class i.e. header, main and footer. Each class contains with class name container that maintains the width of the webpage. Inside the header tag, the logo and navigation links are given. Inside main class tax calculator system and side news is made. And inside footer copyrights are made. External CSS link is given. The CSS file name is style.css where contains designing and styling.

FIGURE 1 CODE1

In this figure, comments are kept in small/fewer brackets. The project name "Tax Calculator System" is given as the title and the CSS link is provided inside the head tag. Inside body tag logo, navigation and tax calculator system are created. Logo and navigation are created inside the header tag or header class. The logo image is given inside the logo id. Inside navigation, a href link is given as default and navigations are created.

```
<div class="main">
 <!---class container to use width, max-width and margin auto-->
     <h1>Tax Calculator System</h1>
          <div class="section-top"
              <div class="tax-calculator" id="calculation">
                  <form action="#" id="inputs" oninput="tax">
                    <h3>Basic Information</h3>
                     <div class="basic">
                           <div class="info-top">
                               <div class="marriage-info">
                                    <label for="marriage">Marriage status:</label>
                                    <select name="marriage"</pre>
                                    <option value="Married">Married</option>
                                    <option value="UnMarried">UnMarried</option>
                                <div class="fiscal-info">
                                   <label for="fiscal-year">Fiscal Year:</label>
                                    <select name="fiscal-year">
                                    <option value="a">2074/75</option>
<option value="b">2075/76</option>
```

FIGURE 2 CODE 2

In this figure, the tax calculator system is created in the main class. Section tag is used. Class section-top has contained the system of the calculator. The class basic contains the information of choice made.

FIGURE 3 CODE 3

In this figure, aside tag is used to set side news aside. h2 tag is used to give heading as latest News at side news. Inside news class certain dummy news and read more button is added. And below aside tag, a new footer tag is added.

FIGURE 4 CODE 4

In this figure, a URL font link is added. Scroll behaviours are set as smooth. "*" is all sector use to select all elements which are used set margin padding as 0. As like that, body and P tag is used to select to add CSS. The container class is selected so that it maintains the width of the web page.

```
System > css > # style.css > ધ body
    /*header CSS Starts*/
    .header {
      position: relative;
      background: □#6e6b6b;
    /*hover effects that changes after hovering herader area */
    .header:hover {
      background: □#504c4c;
      transition: 0.5s;
    /*giving height and width in nav-bar class*/
    .nav-bar {
      height: 100px;
      width: 100%;
    #logo {
      width: 100px;
      padding: 10px;
      cursor: pointer;
      float: left;
    #logo a img {
      width: 100%;
      border-radius: 10px;
```

In this figure, header CSS is started which contains with logo navigation link at the homepage. Hover is used to changing the background colour in it. Inside nav-bar id logo and class navigations are placed.

FIGURE 5 CODE 5

```
:tem > css > # style.css > 😭 .side-news
 .tax-calculator {
   background: □rgb(255, 255, 255);
   height: 615px:
   margin-right: 5px;
   padding: 10px;
   border: 1px solid □rgb(131, 121, 121);
   box-shadow: inset 0 1px 0 0 □#686666, 0 1px 3px □#000;
   position: relative;
   overflow: hidden;
 /* label i.e. salary, marriage status*/
 .tax-calculator label {
   display: inline-block;
   width: 200px;
   height: 25px;
 .tax-calculator select {
   font-family: "Calistoga", cursive;
   width: 110px;
   padding: 3px;
 /* input to input numbers*/
 .tax-calculator input {
   width: 200px;
   height: 25px;
   outline: none;
```

FIGURE 6 CODE 6

In this figure, the class tax calculator contains the system of calculator which is the parent class. The tax-calculator label selects the label named salary, bonus etc. and selects tag selects option of marriage status and input to select the input amount.

```
.main {
 margin: 20px auto;
.main::after {
 content: "";
 clear: both; /* to clear float*/
 display: table;
/*giving section tag (Tax calculator system) 95% width*/
.section {
 height: 650;
 width: 65%;
 float: left;
 position: relative;
.container h1 {
 text-align: center;
.section-top {
 height: auto;
```

FIGURE 7 CODE 7

In this figure, header CSS is ended. The main class contains with tax calculator system and side news. After is used to clear float. Certain height and width are given at section class.

```
∨ .side-news {
    width: 33%;
    margin-left: 2%;
    float: left;
    height: 650px;
    overflow: hidden; You, 5 days ago • files added to main branch
    text-align: center;
✓ .side-news .news {
    border: 1px solid ■rgb(131, 121, 121);
    box-shadow: inset 0 1px 0 0 □#686666, 0 1px 3px □#000;
✓ .click {
    position: absolute;
    top: 60px;
    left: 160px;
    right: 0;
    bottom: 60px;
    transition: 0.5s;
✓ .click a {
    display: none;
```

FIGURE 8 CODE 8

This figure shows that the class side-news contains the aside news on the homepage. 33% of the width is given for side news. The click class contain the link of HTML read me more button.

Use of Version control

Although there is GitLab to use as version control I Choose GitHub as version control. Both Gits has similar features but my team members suggest using GitHub.

The code file is uploaded to GitHub.

```
winnowski/c/Users/yoges/TaxSystem

yoges@Lucky-Guy MINGW64 ~/TaxSystem (design)
$ git remote add origin https://github.com/Yogeshshrestha/TaxCalculatorSystem.git
t
error: remote origin already exists.

yoges@Lucky-Guy MINGW64 ~/TaxSystem (design)
$ git remote -v
origin https://github.com/Yogeshshrestha/TaxCalculatorSystem.git (fetch)
origin https://github.com/Yogeshshrestha/TaxCalculatorSystem.git (push)

yoges@Lucky-Guy MINGW64 //TaxSystem (design)
$ git push -f origin design
Eumonation objects: 100% (25/25), done.
Delta compression using up to 8 threads
Compressing objects: 100% (14/14), done.
Writing objects: 100% (17/17), 95.46 KiB | 3.29 MiB/s, done.
Total 17 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Yogeshshrestha/TaxCalculatorSystem.git
1268476..deecd24 design -> design

your MINGW64 ~/TaxSystem (design)
$ git log
1243f5da663f24d3e1e62311bfd9175f5654 (HEAD -> design, origin/design)
Author: Yogesh <npo3a190299@heraldcollege.edu.np>
Date: Sat Apr 10 17:25:29 2021 +0545

naviagtion css updated, button centered issue fixed, side news hover effect(
read more) added, logo and icons updates, input type text to number changed, pop
up js event added to calculate button

commit 1268476ca2c528230b1bd3aad611828464e5e58d (origin/master, master)
Author: Yogesh <noceanum commit 2268476ca2c528230b1bd3aad611828464e5e58d (origin/master, master)
Date: Mon Apr 5 13:15:21 2021 +0545

simple design of tax calculator
```

FIGURE 9 GITHUB LOG

The above screenshot shows that the code file is added to a branch named "design". And also shows what I did in version control. As you can see after entering the command "git log", it shows the description of file added in the branch, commits, date of the uploaded file.

```
MINGW64:/c/Users/yoges/TaxSystem
                                                                         X
     it 7b3c7a0ea3d3eb2679e2aa81fa227fe99eeea39b (HEAD -> main, origin/main)
Author: Yogesh <np03a190299@heraldcollege.edu.np>
        Sun Apr 11 14:07:13 2021 +0545
Date:
    code added to main branch
commit 9a8e04cea3c82cbf06432cafb801f87459e15a59 (origin/design, design)
Author: Yogesh <np03a190299@heraldcollege.edu.np>
       Sat Apr 10 17:35:32 2021 +0545
Date:
    wrong file responsive, so i deleted it
commit deecd243f5da663f24d3e1e62311bfd9175f5654
Author: Yogesh <np03a190299@heraldcollege.edu.np>
        Sat Apr 10 17:25:29 2021 +0545
Date:
    naviagtion css updated, button centered issue fixed, side news hover effect(
read more) added, logo and icons updates, input type text to number changed, pop
 up js event added to calculate button
 commit 1268476ca2c528230b1bd3aad611828464e5e58d (origin/master)
Author: Yogesh <70264221+Yogeshshrestha@users.noreply.github.com>
       Mon Apr 5 13:15:21 2021 +0545
Date:
FIGURE 10 GITHUB LOG 2
```

In this figure, I added the coded file to the main branch.

```
MINGW64:/d/4thsemister/collabrationProject/newagain/taxcalculator
                                                                                                                                                                                                                                                                                                                                                                                                                     create mode 100644 img/home.png
 create mode 100644 img/logo.png
 create mode 100644 img/news.png
create mode 100644 index.html
  create mode 100644 result.html
               s@Lucky-Guy MINGW64 /d/4thsemister/collabrationProject/newagain/taxcalculato
    git remote add origin https://github.com/Yogeshshrestha/Tax-calculator.git
   oges@Lucky-Guy MinGw64 /d/4thsemister/collabrationProject/newagain/taxcalculato
     git push -u origin master
git push -u origin master
numerating objects: 13, done.
Ounting objects: 100% (13/13), done.
Pelta compression using up to 8 threads
Compressing objects: 100% (12/12), done.
(riting objects: 100% (13/13), 94.50 KiB | 3.63 MiB/s, done.
Otal 13 (delta 0), reused 0 (delta 0), pack-reused 0
Co https://github.com/Yogeshshrestha/Tax-calculator.git
 * [new branch] master -> master
Franch 'master' set up to track remote branch 'master' from 'origin'.
      (master)
   (master)
git log
prit log
             code file added
               s@Lucky-Guy MINGW64 /d/4thsemister/collabrationProject/newagain/taxcalculator (master)
                                                                                                                                                                                                                                                                                                                                                                                                                                                        FIGURE
```

11 GITHUB LOG 3

In this figure, I created a new repository added file with the origin pushed file. The last highlight shows the activities I did in version control.

Appendix B

Evidences of Good communication and file sharing

We have used physical, basecamp, social media etc. meeting for good communication and file sharing.

After I created the simple design of the tax calculator system I ask my friend to check my design in basecamp on the message board.

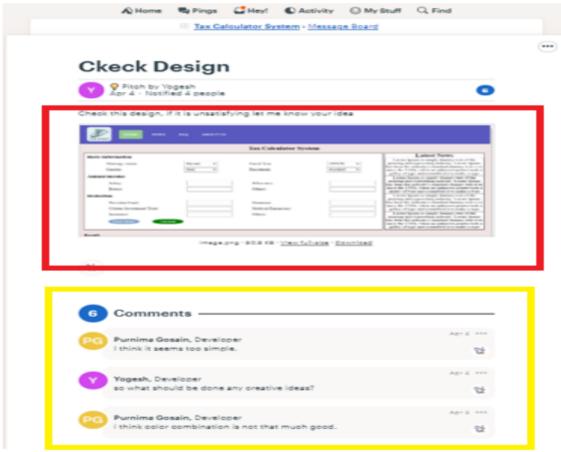


FIGURE 12 COMMUNICATION 1

In this figure, I let my group members check the design I created. Red highlight shows the design I show others and Yellow highlights shows the suggestion they gave to me.

In basecamp at message Board sending various messages.

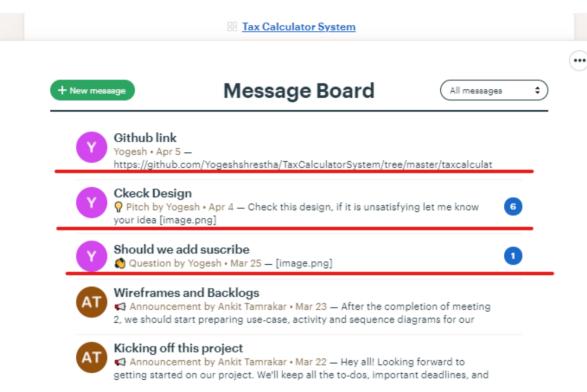


FIGURE 13 COMMUNICATION 2

In this figure, have asked the question about what to do with subscribe feature in web design, send message to check design and shared GitHub link.

We used Facebook to have a conversation. We created a group. Here at chat members, Bishal Bharati is "BA", Ankit Tamrakar is "PM" Purnima Gosain, and Lopsang Lama and Yogesh Shrestha are "Developer".

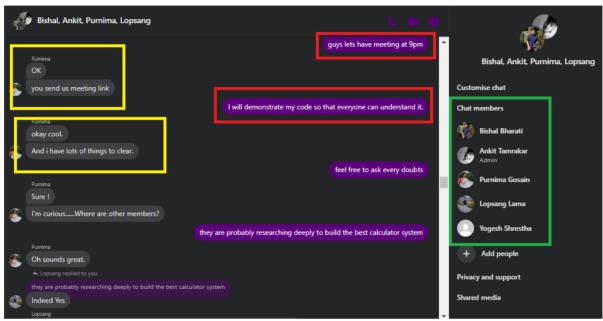


FIGURE 14 COMMUNICATION 4

In this figure, I ask my friends to have a meeting and as agenda, I demonstrate my code so that developer can understand. Red highlight means send the message by me and yellow highlight means group member conversation.

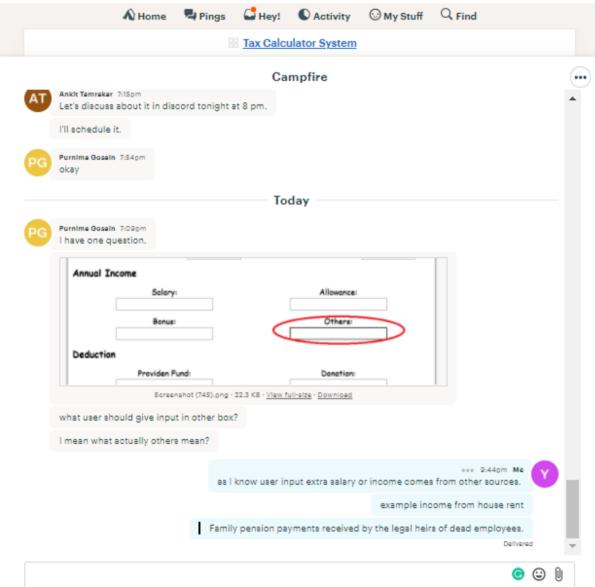


FIGURE 15 COMMUNICATION 4

In this figure, Purnima Gosain a developer asked question i.e. what exactly is others? I answer it.

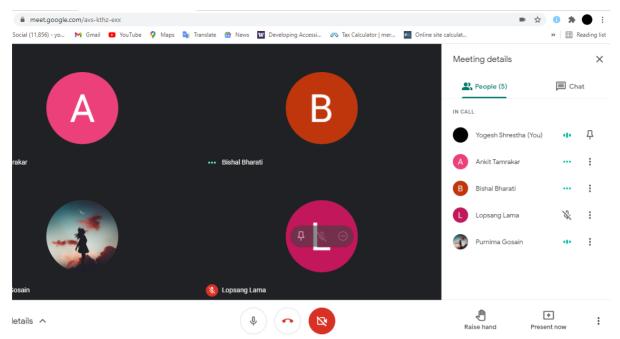


FIGURE 16 COMMUNICATION 5

In this figure, we use google meet to communicate.

Evidences of Continuing Personal Development (CPD)

The tax Calculator System is designed for calculating tax payable salary earned in a year. The calculation is based on the tax policy provided by the government. This system shows the tax rule of fiscal years. And more it shows tax amount should be pay, tax percentage, and annual income. I have used many resources to build this system which are books, youtube, online course, and google.

In the Html CSS book, I learnt to create a navigation bar, label element input and output element. I understand navigation bar are essentially a link list, label defines for several elements e.g. salary, input tag specifies an input field where user can input data and output tag

used to display the result of some calculation. And also, I learnt about option tag where user can only choose one option. (Ducket, n.d.)

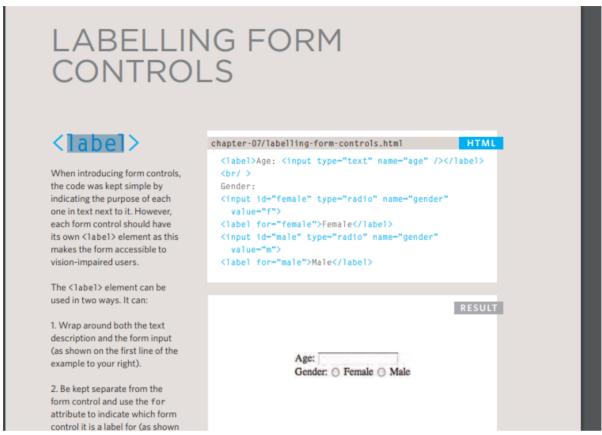


FIGURE 17 RESEARCH 1

In this figure, labelling form controls title is shown where I learnt about the label and use it to make salary label, bonus label etc.

Udemy course is the online course where I learnt about positioning. I learnt about position absolute, relative, static and fixed. Among them, I have use position absolute and position relatives while creating this project. And more I under more clearly to use the ID in CSS. (Udemy, 2021).

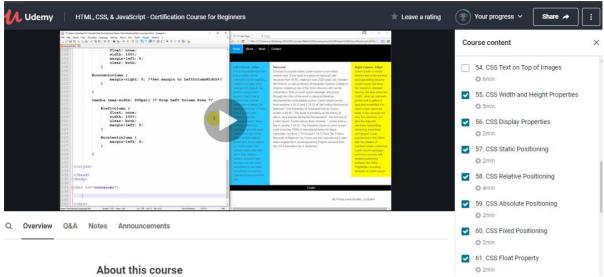


FIGURE 18 RESEARCH 2

In this figure, the course name 'HTML, CSS, JavaScript ' from Udemy is shown. Aside from given marked what I watched and learn about positioning.

YouTube is the place where I understand CSS layout. The layout format of CSS was rough I but with the help of a youtube video, I was able to create a good layout for this project. https://www.youtube.com/watch?v=dMK_31H1YPo

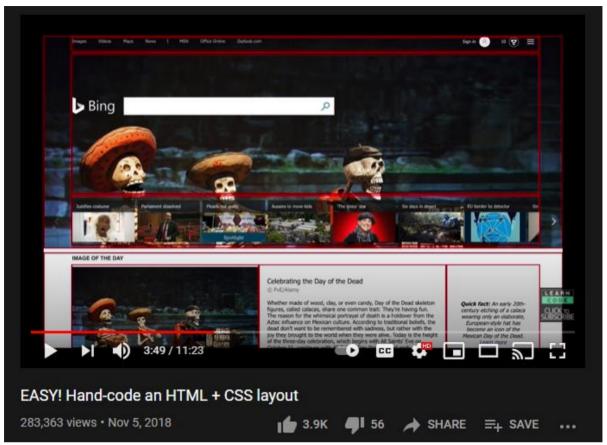


FIGURE 19 RESEARCH 3

In this figure, YouTuber showing and teaching layout format.

Among other resources googling was the best and easy way to learnt. This is where I learnt more about form. It was also helpful in arranging labels in the right way. More about the form I learn action and method used in the form. And I also learnt to set the display as flex which was easy to maintain space around. (W3docs, n.d.)

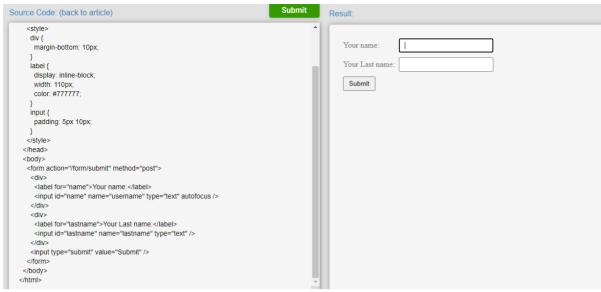


FIGURE 20 RESEARCH 4

In this figure, wedocs website's code is shown. By taking references code I understand form and use it in creating the form in the project.

Moreover, learning and understanding code was not enough to build a simple calculator. Although, BA provided a wireframe I use the certain website for design reference. The website used for reference is bellowed:

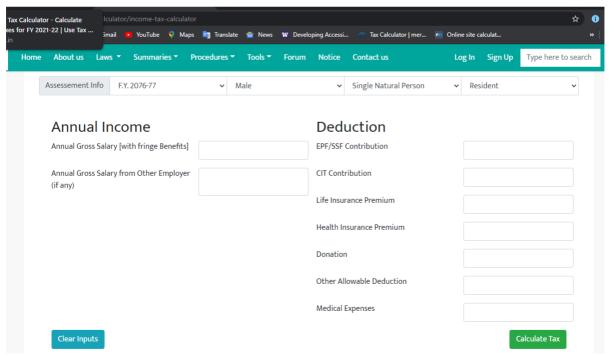


FIGURE 21 RESEARCH 5

In this figure, I have learnt features buttons that need to add to our project.

As I am a Frontend developer to produce HTML, CSS and JavaScript for a website I have used many sources like HTML and CSS book, google, Udemy course and YouTube to build this project. The knowledge gain from every resource was really helpful and was used in developing the project.

Evidences of Issue tracking

While working on projects we got many issues.

While checking on coding BA find out that, the calculate button's position is not centre and the shape is not rectangle. So, BA assigned me a task. And I solve this issue by centring button and giving rectangle shape.

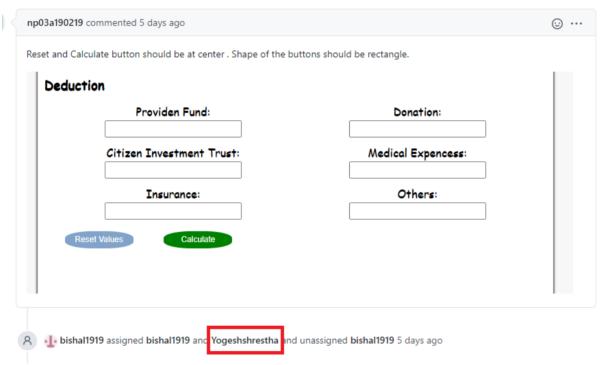


FIGURE 22 ISSUE TRACKING 1

In this figure, BA assigned me to solve this issue. And I solved it by aligning the button at the middle and giving proper shape and colour.

Purnima Gosain a developer complained that while cloning the repository file it does not clone.

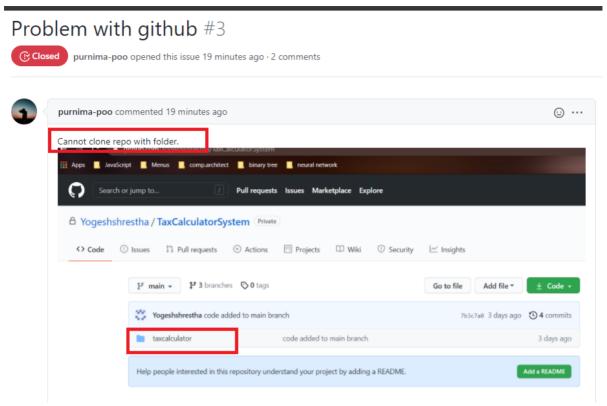


FIGURE 23 ISSUE TRACKING 2

In this figure, the developer assigned me to fix this problem.

To solve the cloning repository problem, I created a new repository excluding the folder.

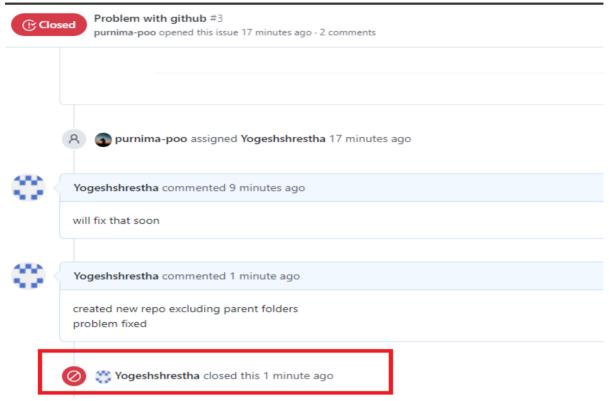


FIGURE 24 ISSUE TRACKING 3

In this figure, I closed the issue after fixing it.

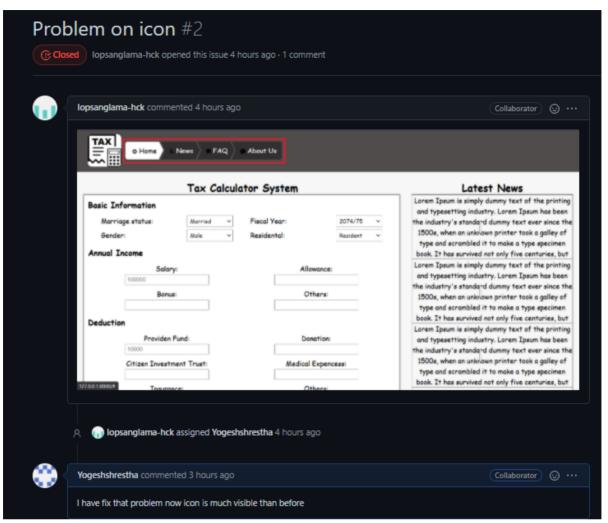


FIGURE 25 ISSUE TRACKING 4

In this figure, lopsang a Backend Developer founds issue in header pager. The icon on the home page is not seen. So he assigns me a task to fix this problem. Then I fixed it by making the icon more visible.

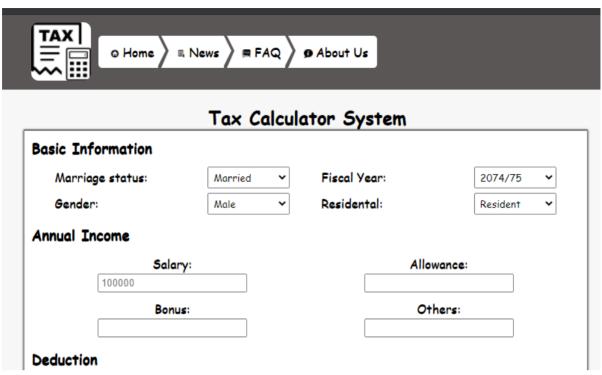


FIGURE 26 ISSUE TRACKING 5

This is the figure after fixing the previous issue.

References

References

Ducket, J., n.d. *HTML and CSS.* ©2011 by John Wiley & Sons, Inc., Indianapolis, Indiana ed. United States of America: John Wiley & Sons, Inc.

Udemy, 2021. HTML, CSS, & JavaScript - Certification Course for Beginners. s.l.:udemy.

W3docs, n.d. W3docs. [Online]

Available at: https://www.w3docs.com/snippets/html/how-to-align-labels-next-to-inputs.html [Accessed 11 04 2021].