

## Assignment 1: Web Development

# Portfolio Website

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Github Live url : <https://kaustuv-praz.github.io/csy1018-assign1/>

## Summary

This report is about the personal website that I have created. It is a portfolio website which includes my relevant personal information. The website is completely based on HTML-5 and CSS-3 codes, apart from HTML and CSS no other languages are used. This website is created by observing several other professional websites, but none of the code that is used to create this website is copied or derived from elsewhere. Atom text Editor is used for coding.

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## 1. Introduction

Rather than jumping into the sketching of website design, I visited other's professional personal websites to built up an idea for including all the requirements in an appropriate manner. After over viewing few portfolio web pages, I roughly sketched a design on paper sheet, which I then improved in a computer sketching software "Wire Frame Sketcher". In corresponding with the desktop view of my website I drew design for each web page(home page, bio page, cv page, contact page) that would be appropriate for the Tablet and Mobile devices.

Some of the websites that I observe in developing my own portfolio are:

- <https://joel.sh/about>
- <http://www.garysheng.com/>
- <http://www.rachaelgking.com/>

## 2. Developing This Website

### 2.1 Designing Sketch

#### 2.1.1 Home Page Sketch

This is the 1<sup>st</sup> rough sketch design of home page (index.html page). As in the *figure 2.1.1* the page covers 100% width of the screen, thus the website is full length website. The below sketch is for desktop view( for pc and laptop). It has the header which is determined to be fixed in position. The header is divided in to 2 part the DIV and NAV each takes 50% width of the header total length. The DIV part is used for Logo, and NAV is used for navigation panel. Below header there is a single row DIV that is fixed too and consist an circular image. Then below that there is MAIN part home page that would contain the main component of home pages. And at the bottom there is FOOTER that would contain footer items

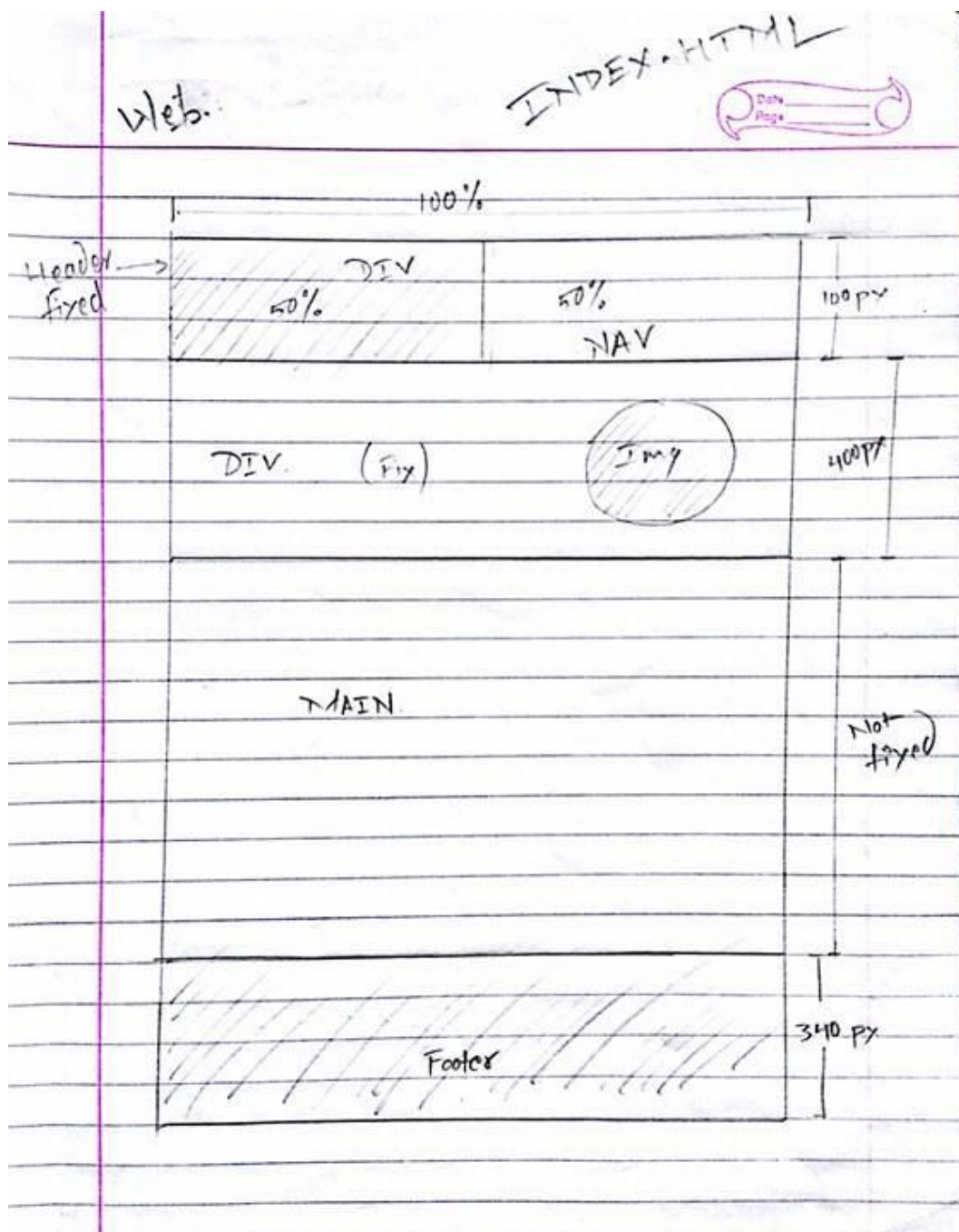


figure 2.1.1 home page desktop view sketch

## 2.1.2 Home page sketch tablet and mobile

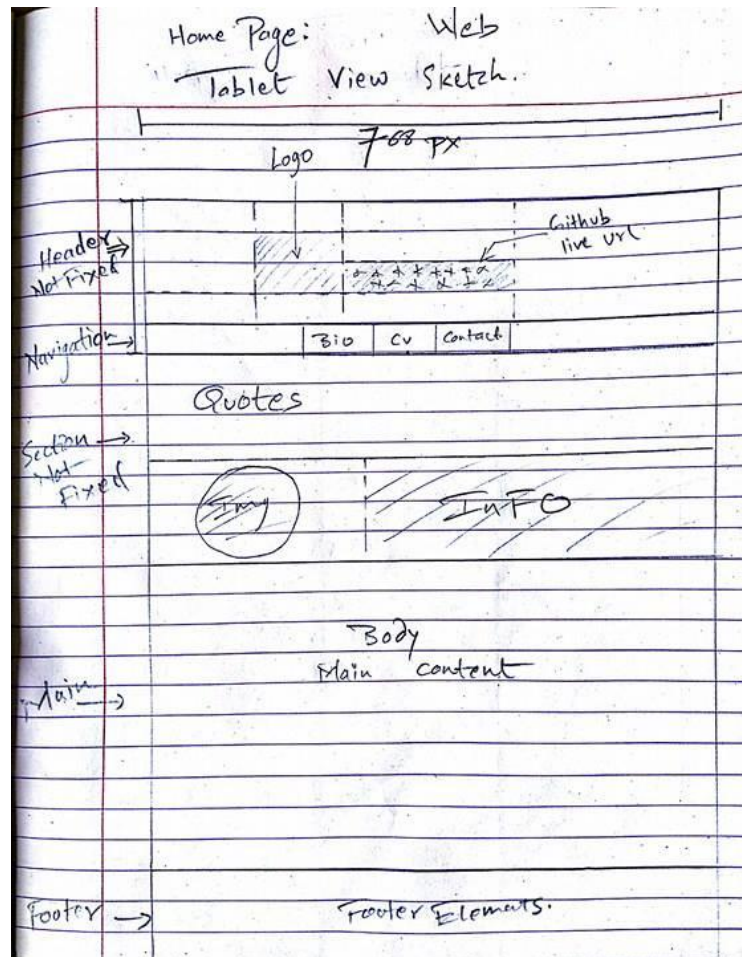


figure 2.1.2 Home page tablet view sketch

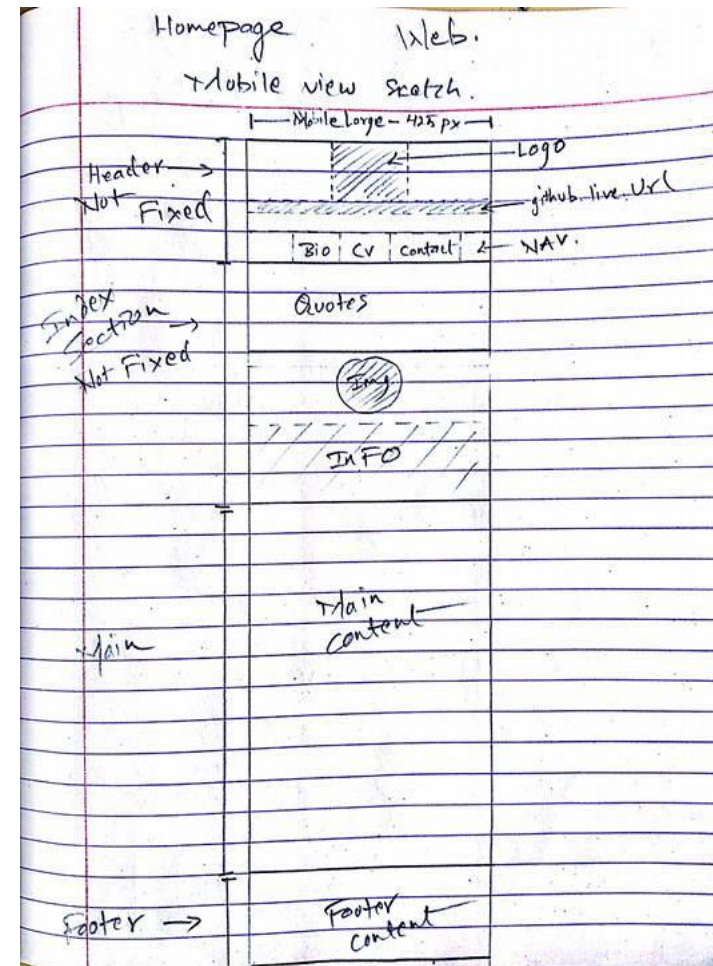


figure 2.1.3 home page mobile view sketch



### 2.1.3 Biography Page desktop view Sketch.

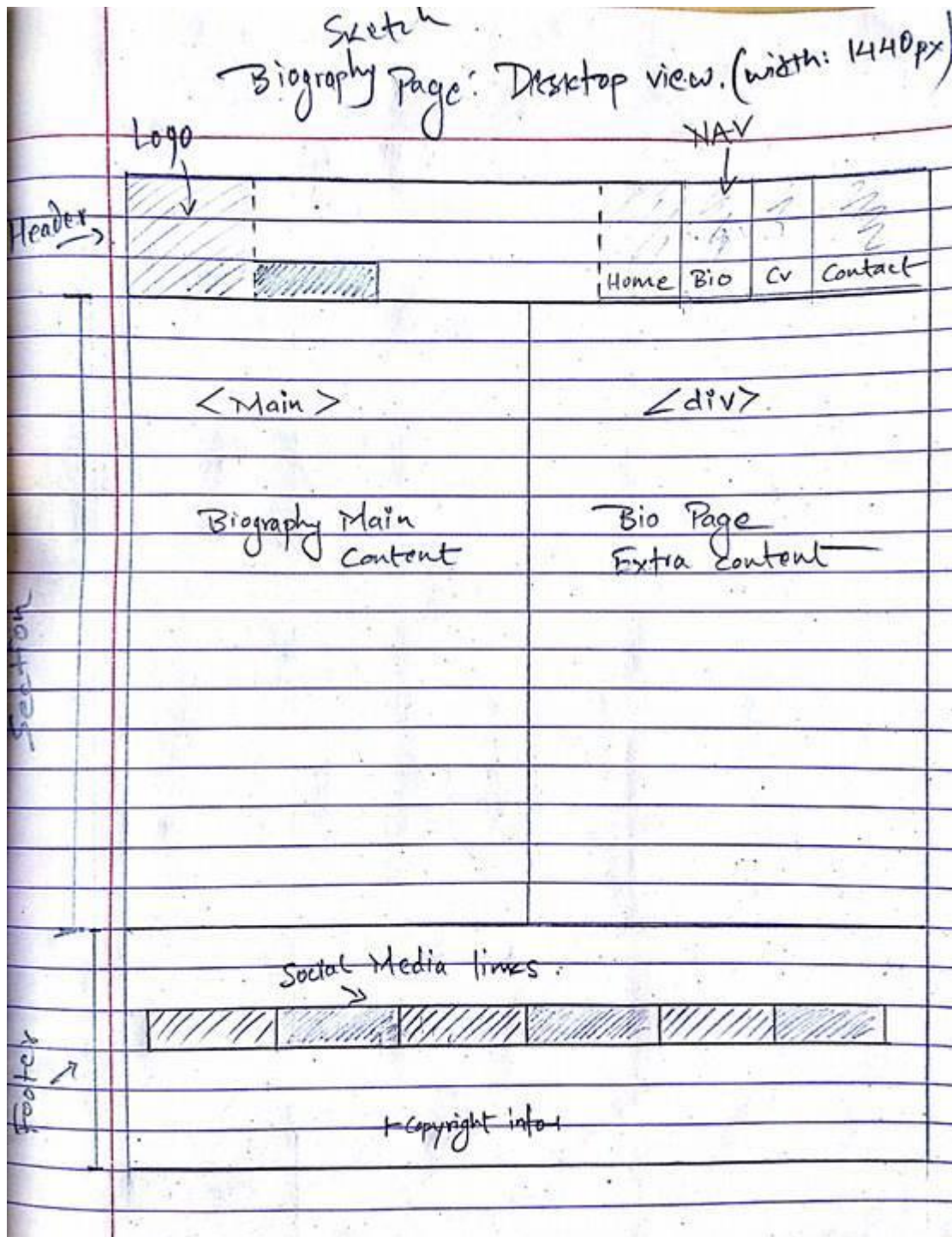


Figure 2.1.4 biography page desktop view sketch



## 2.1.4 Contact Page Sketch

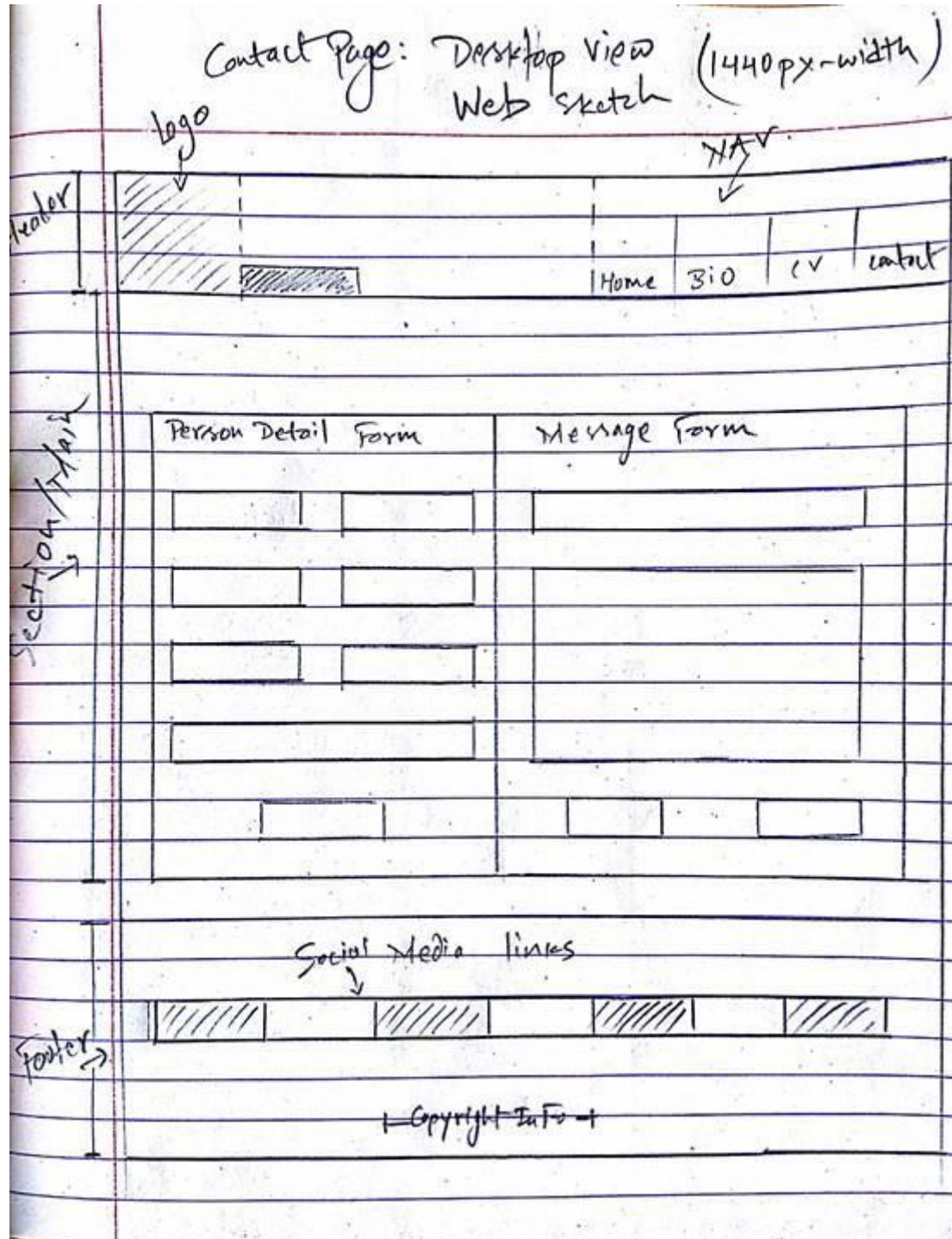


Figure 2.1.5 contact page desktop view sketch

### 2.1.5 CV Page Sketch

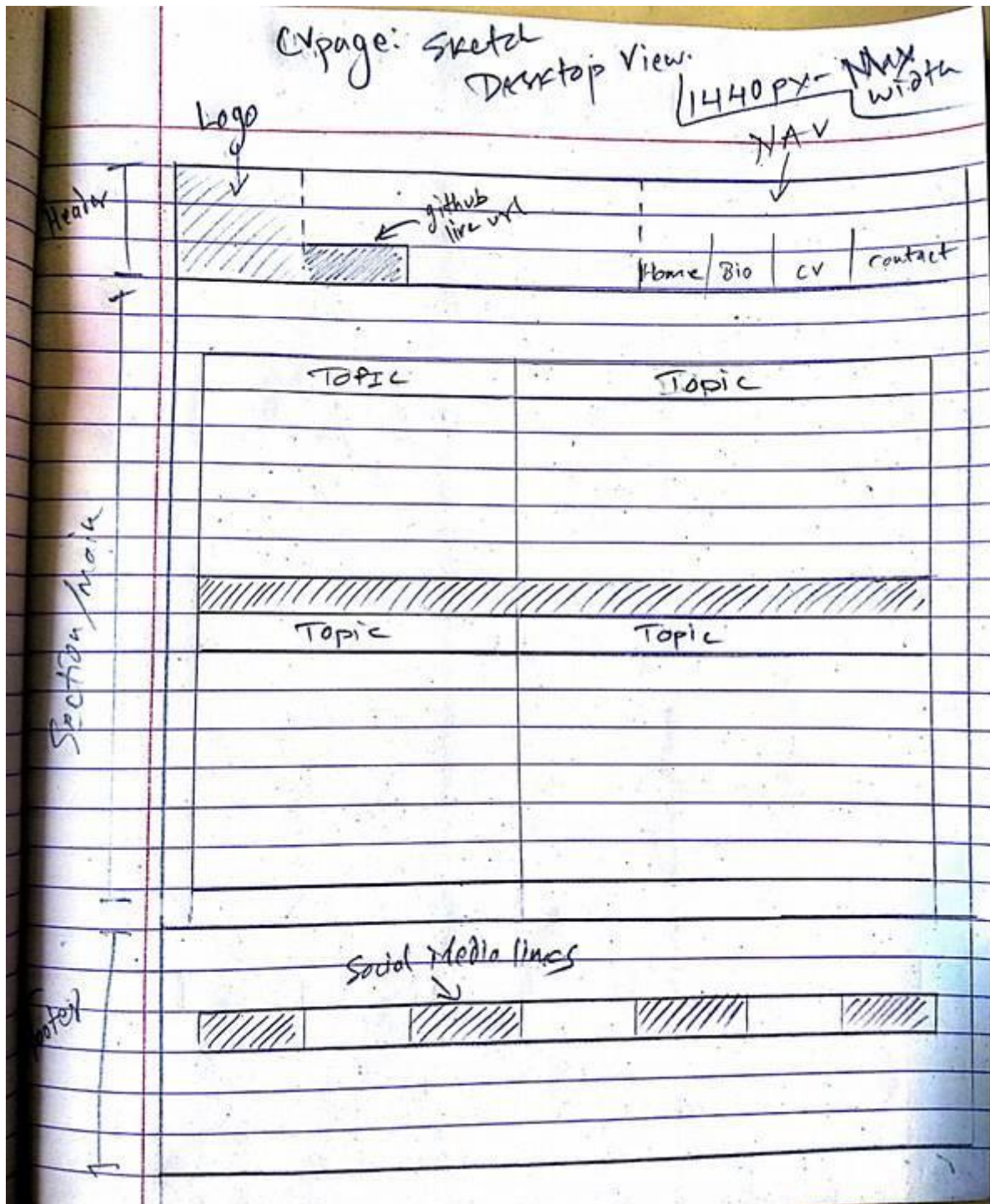


Figure 2.1.6 CV page desktop view sketch

## 2.2 Designing Wire Frames

### 2.2.1 Home Page Wire Frame

#### Desktop view

Below figure 2.2.1 is a wire frame of Home page desktop view, consisting header, section, main and footer. The header part is same as of the sketch above. The SECTION part, which was DIV in the sketch contains 2 sub divisions(columns), one is for quote and another is for brief profile detail. Below there is a main part, in the wire frame it says main content and side content; it's because while I create this wire frame I was not sure what to include in this main section. The prototype design is different but the concept of this wire frame is used in prototype. At the bottom there is Footer part and its elements.

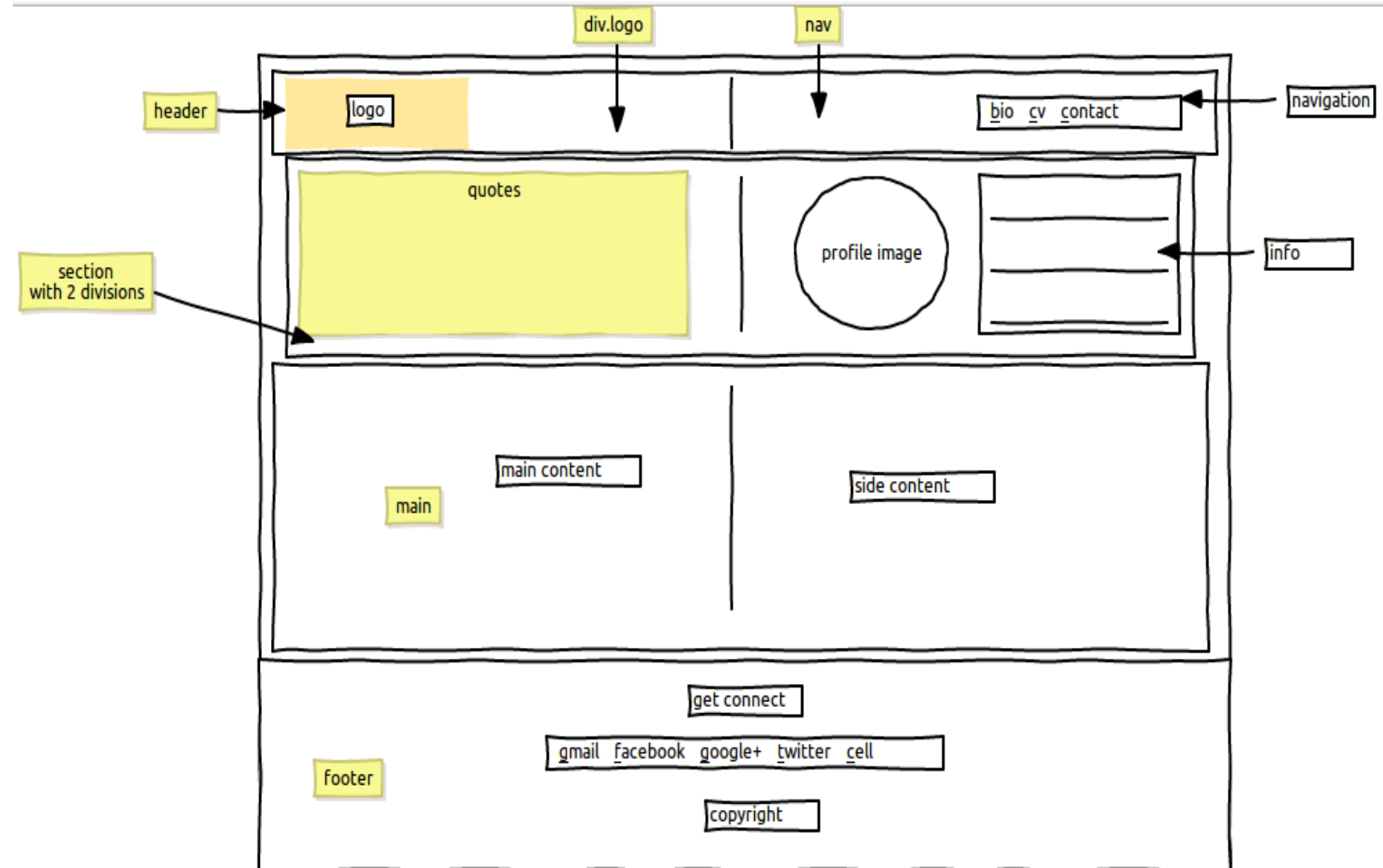


Figure 2.2.1 wire frame of home page desktop view

## Tablet view

Below is the wire frame of Homepage for Tablet View. It's elements/items are same of the desktop view but their orientation is different and more compatible to the tablet devices. In this design the header items and section items are arranged in column covering 100% width of the screen by each of them.

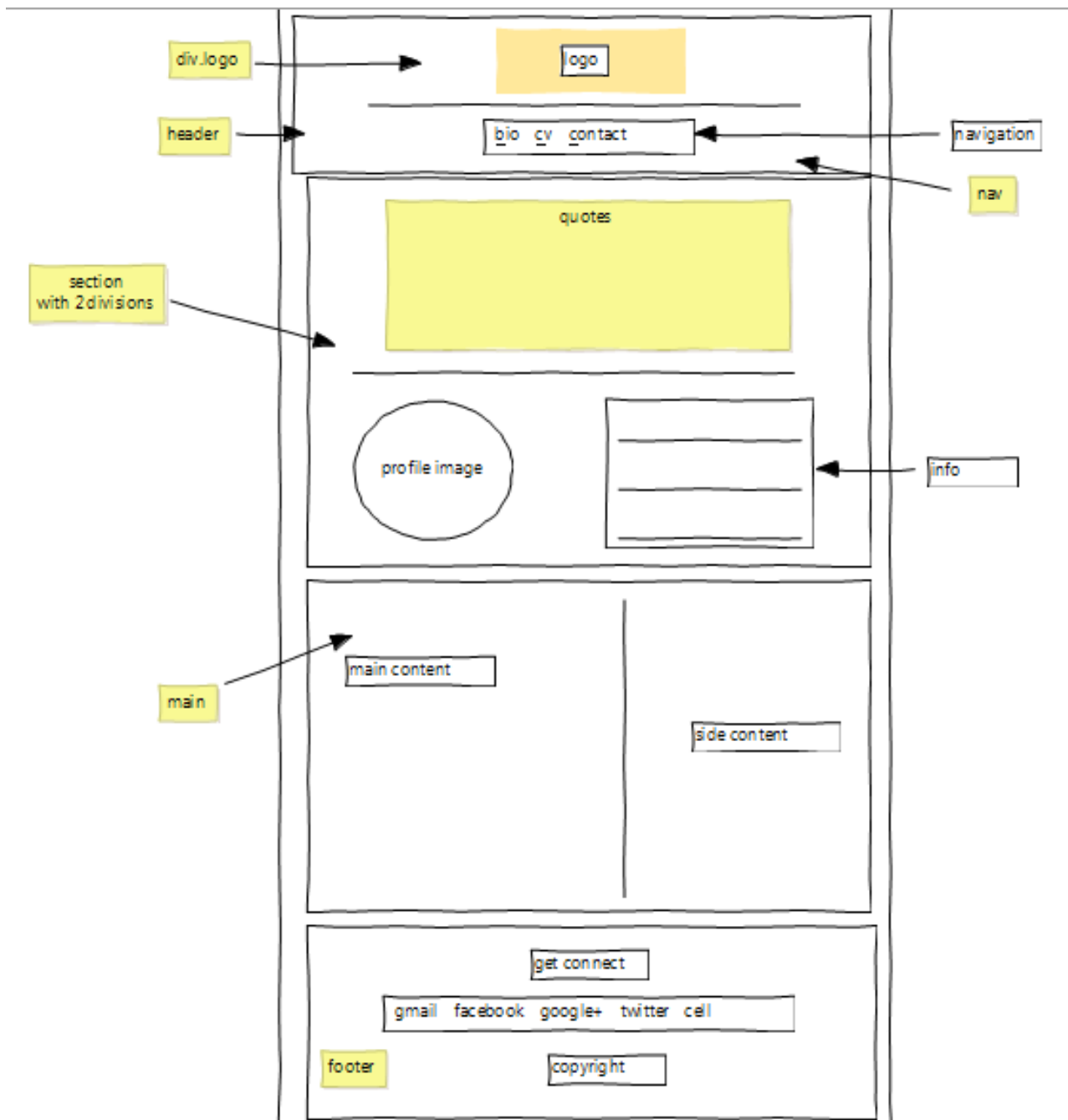


Figure 2.2.2 wire frame of home page tablet view

## Mobile view

Below Figure 2.2.3 is the wire frame for the home page mobile view. All the elements are same as of desktop view, but the layout interface is upgraded to make more compatible with mobile screen device. In this design section, main part and footer are optimized for mobile view.

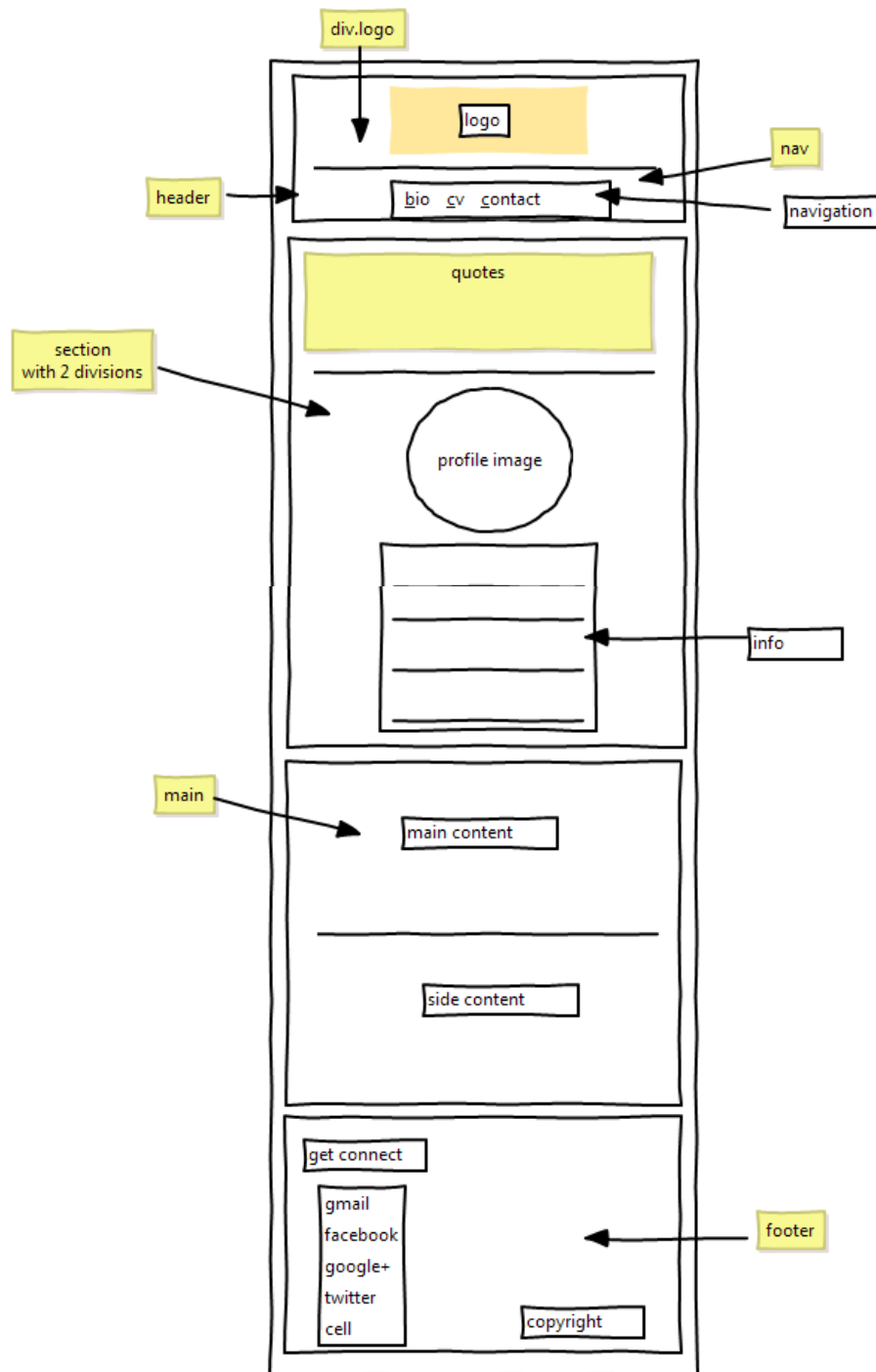


Figure 2.2.3 wire frame of home page mobile view

### 2.2.2 Wire Frame for Bio and Contact pages.(desktop view)

Both wire frame of bio (figure 2.2.4) and contact (figure 2.2.5) are similar in context of designing layout, the only difference is their content. The Bio page contains text and image and a contact page contains contact form.

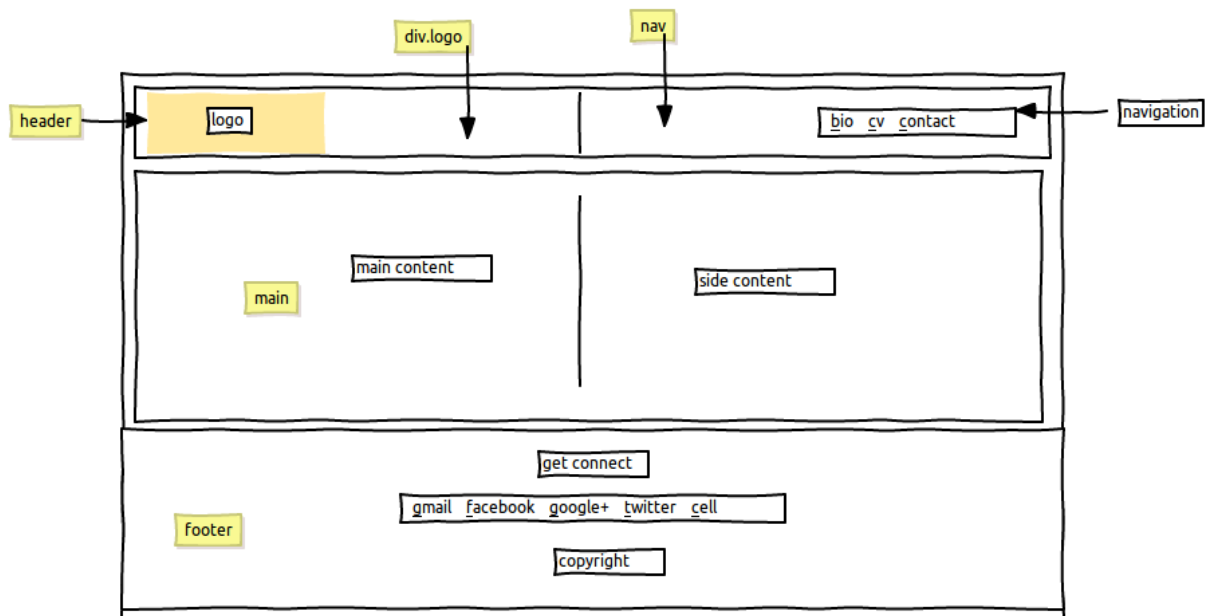


Figure 2.2.4 wire frame of bio page desktop view.

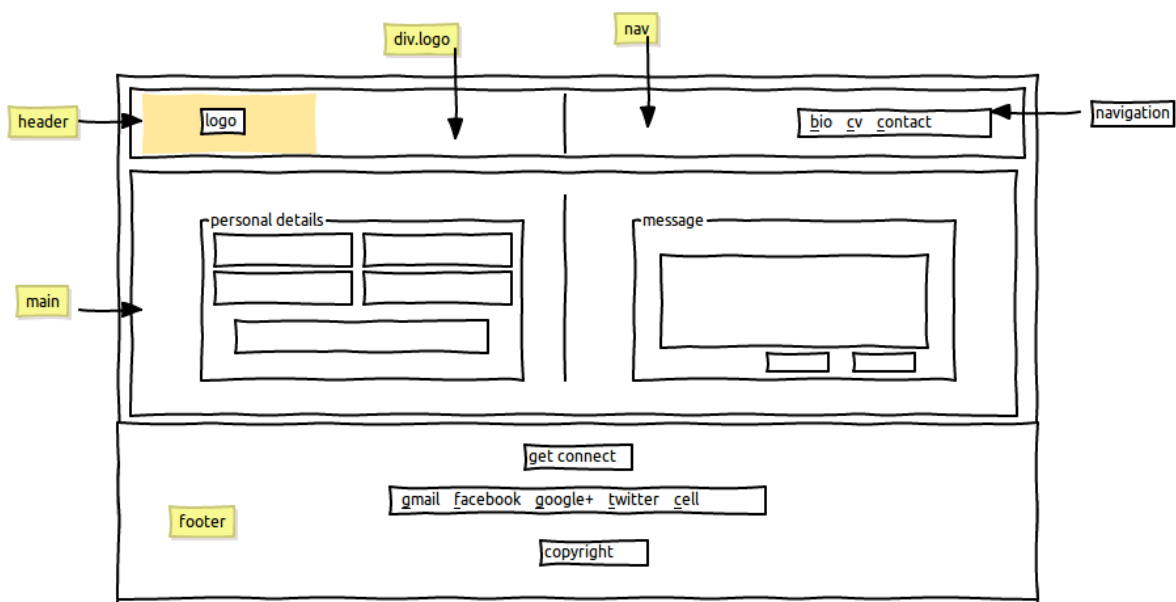


Figure 2.2.5 wire frame of contact page desktop view



### 2.2.3 Bio Tablet and mobile view

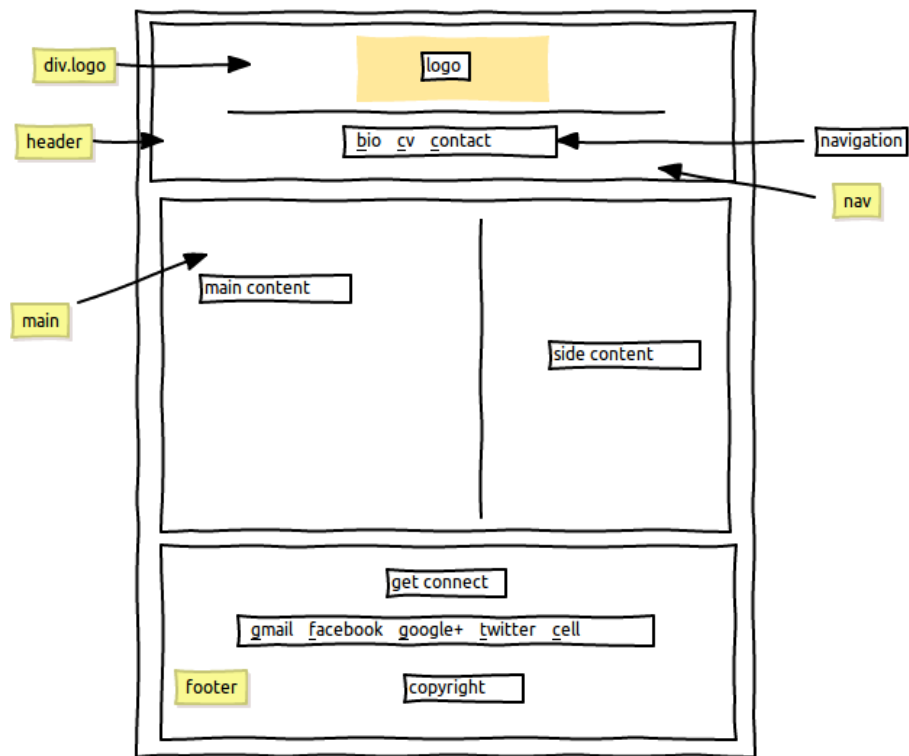


Figure 2.2.6 wire frame of bio page tablet view

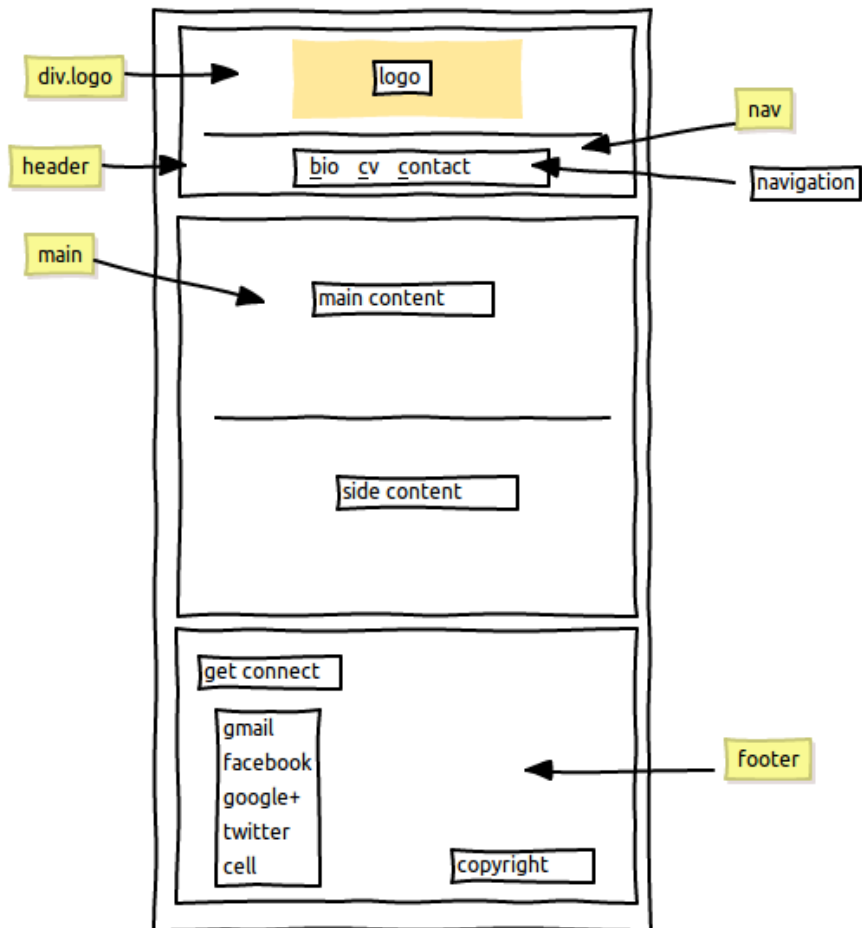


Figure 2.2.7 wire frame of bio page mobile view

## 2.2.4 Wire frame for CV page

CV wire frame consist of boxes for each sub element of CV.

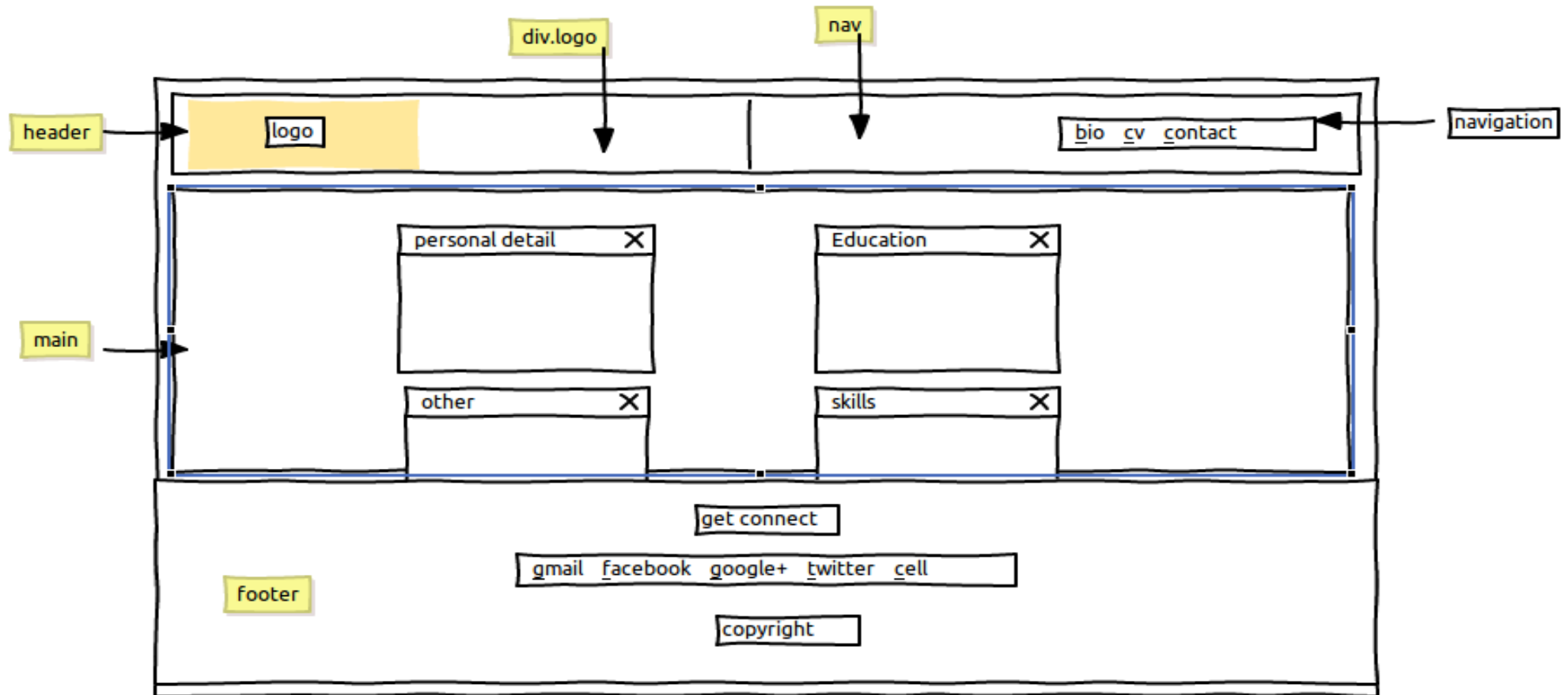


Figure 2.2.8 wire frame of CV page desktop view

## 2.3 Prototype Development

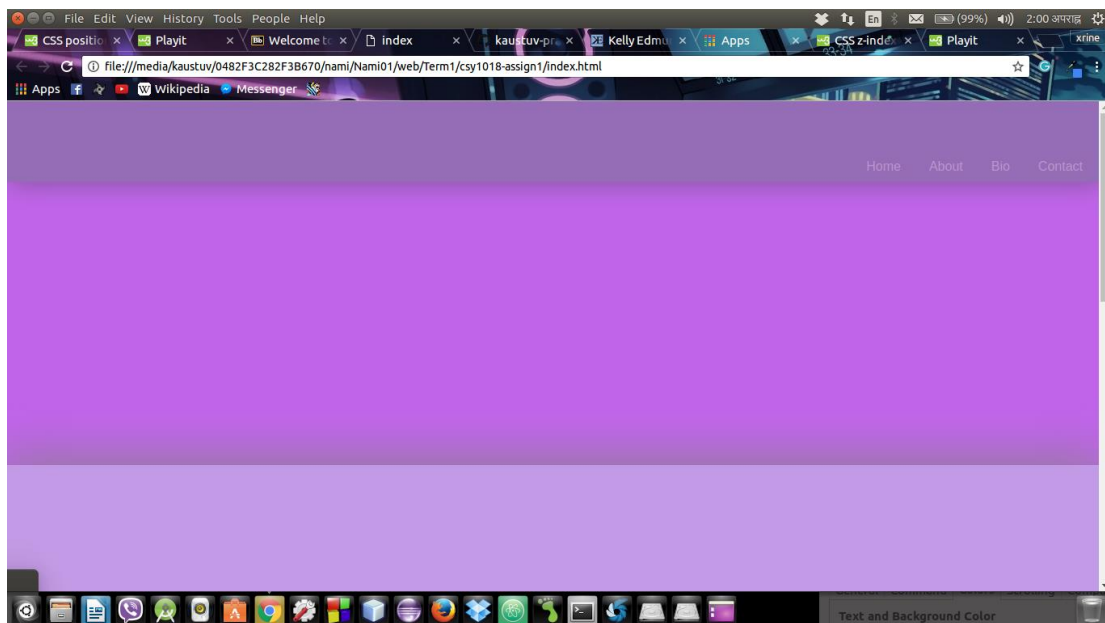
The web site layout is created based on the sketch and wire frames. Some contents/elements in the prototype could be differ from the wire frame design, but the overall architectural design is based upon the wire frames.

### 2.3.1 1<sup>st</sup> week of project development.

Figure 2.3.1 is a screen shot image of prototype of the home page(in 1<sup>st</sup> week). Segments are not clearly distinguished. The above dark row is header with some text on right side which is navigation panel. Below that the purple color larger part is section part. As we can see the screen is scrolled up so the complete content are not seen, most bottom part is a small part of segment, and even below that there is footer which is not seen on the figure.

- Things that are done in first week of project development.

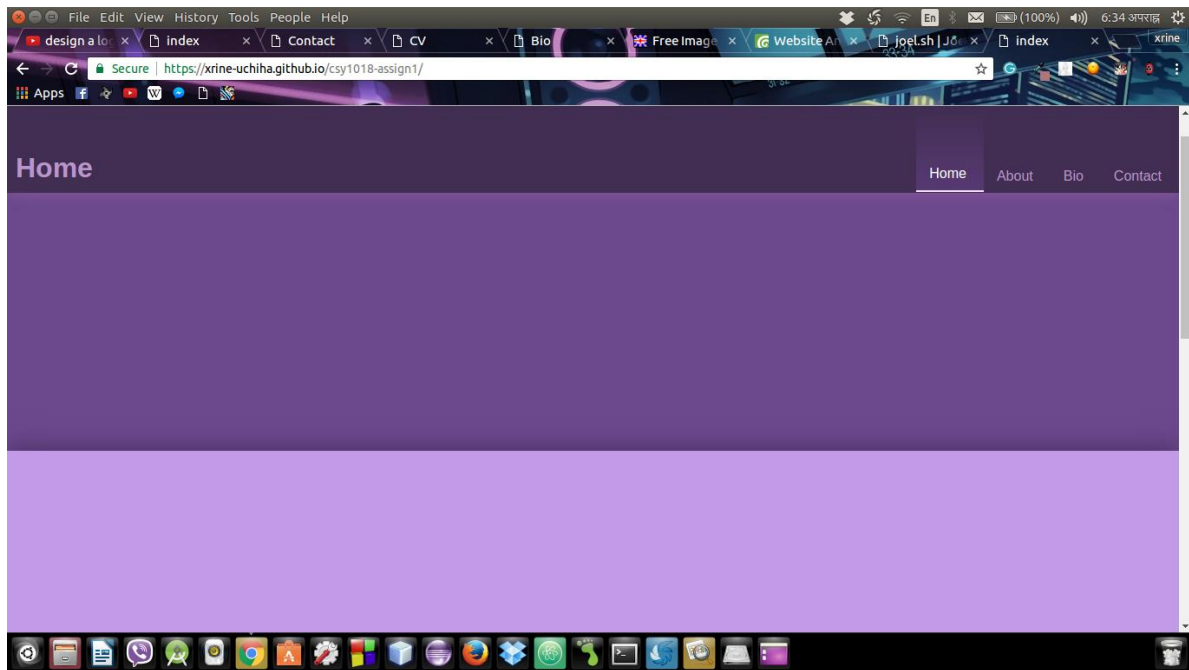
- Folder management is done as required.
- Design layout of the website if formed.
- Links between the pages are established.
- Social media links and there logo are manged.



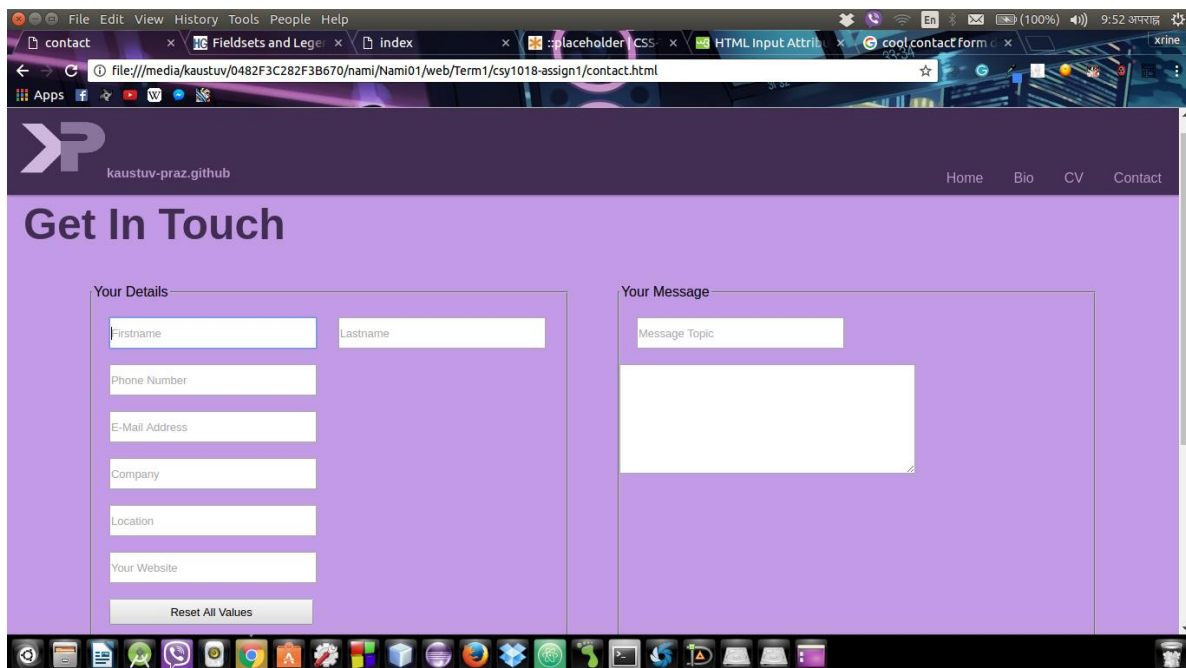
*Figure 2.3.1 prototype design after 1<sup>st</sup> week of project development*

### 2.3.2 2<sup>nd</sup> week of project development.

In this week the major focus was on design and graphic management. Figure shows the website after 2<sup>nd</sup> week.



*Figure 2.3.2 prototype design after 2<sup>nd</sup> week of project development*



*Figure 2.3.3 prototype design of contact page after 2<sup>nd</sup> week of project development*

### 2.3.3 3<sup>rd</sup> week of project development.

On the 3<sup>rd</sup> week I worked on adding the content to the web site and after that I focus on making the websites responsive and Google Fonts API are added. This website is responsive to 4 different type of screens.

- Laptop or PC screen, with the high resolution of width 1025px to 1440px.
- Laptop or PC screen, with the low resolution of max width 1024px.

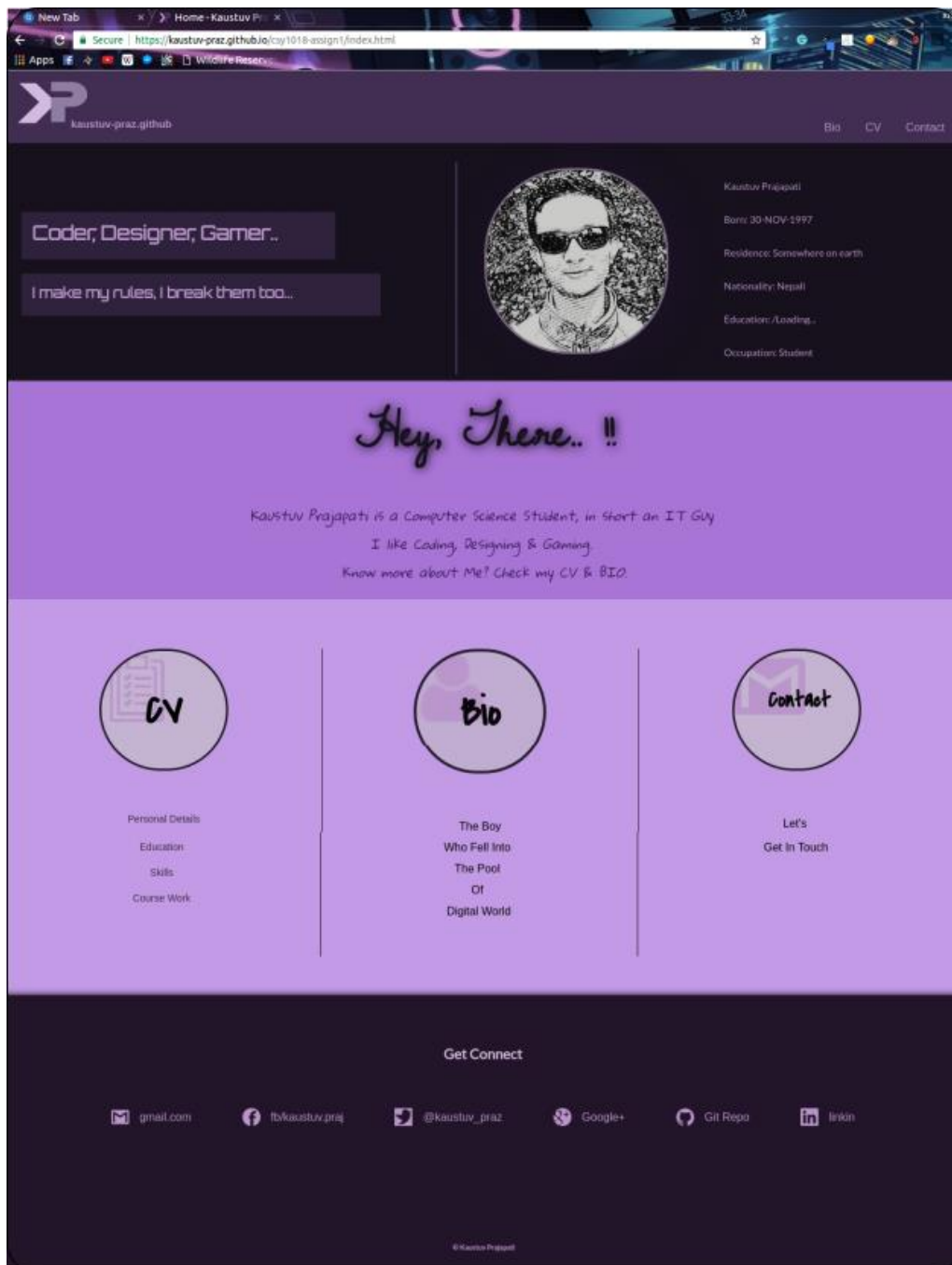


Figure 2.3.4 prototype design screenshot with media queries for laptop (1024px to 1440px)

- Tablet view, with the screen resolution of max width 768px.



Figure 2.3.5 prototype design screenshot for tablet view (768px)



- All mobile view, screen resolution of width range from (320px to 425px).



Figure 2.3.6 Mobile view prototype (home page)

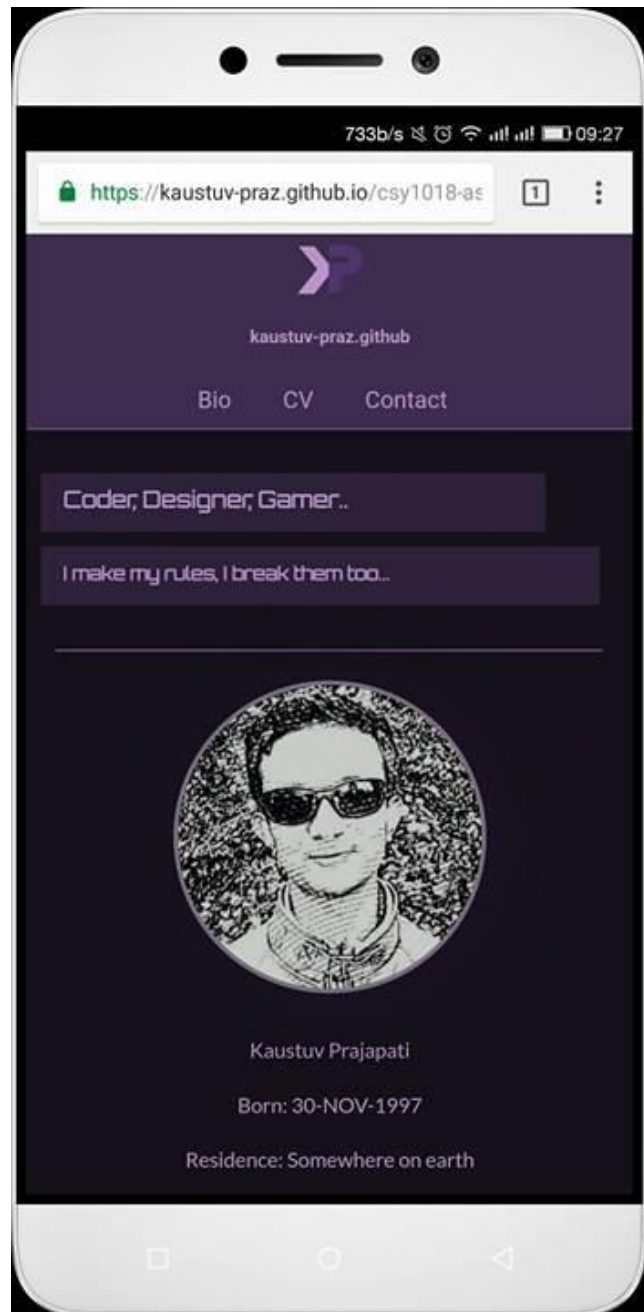


Figure 2.3.7 prototype demo on Letv le-2 phone

### 2.3.4 4<sup>th</sup> week of project development.

On 4<sup>th</sup> week I realize that the css codes are getting heavy and difficult to debug, so css code specifications is done (file handling is done), all total of 21 css files are created, for each media queries and html pages, the main.css connects all the major css files. The style.css contains design layout of all pages, laptop.css, mobile.css and tablet.css carries design responsiveness. The css file for html content management is in the file with name “html-file-name\_device-responsive.css.” for example. If I need to manage the content of home (index) page for tablet view then I have to make change in css file named “index\_tablet.css”.

Below image are 12<sup>th</sup> commit and 18<sup>th</sup> commit screenshot on github

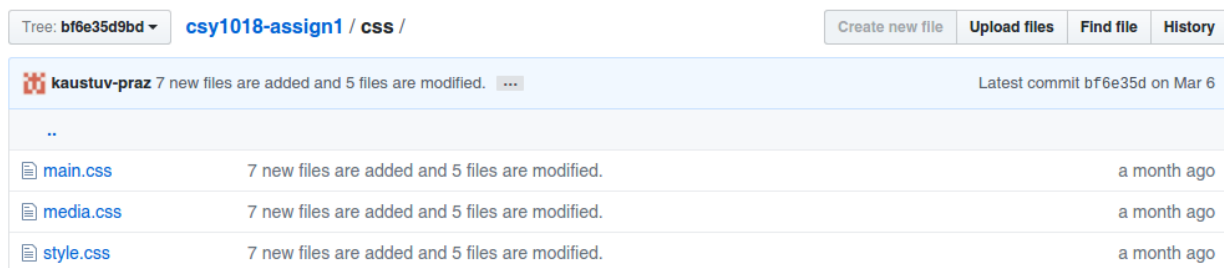


Figure 2.3.8 Github screenshot 'css' folder on 12<sup>th</sup> commit

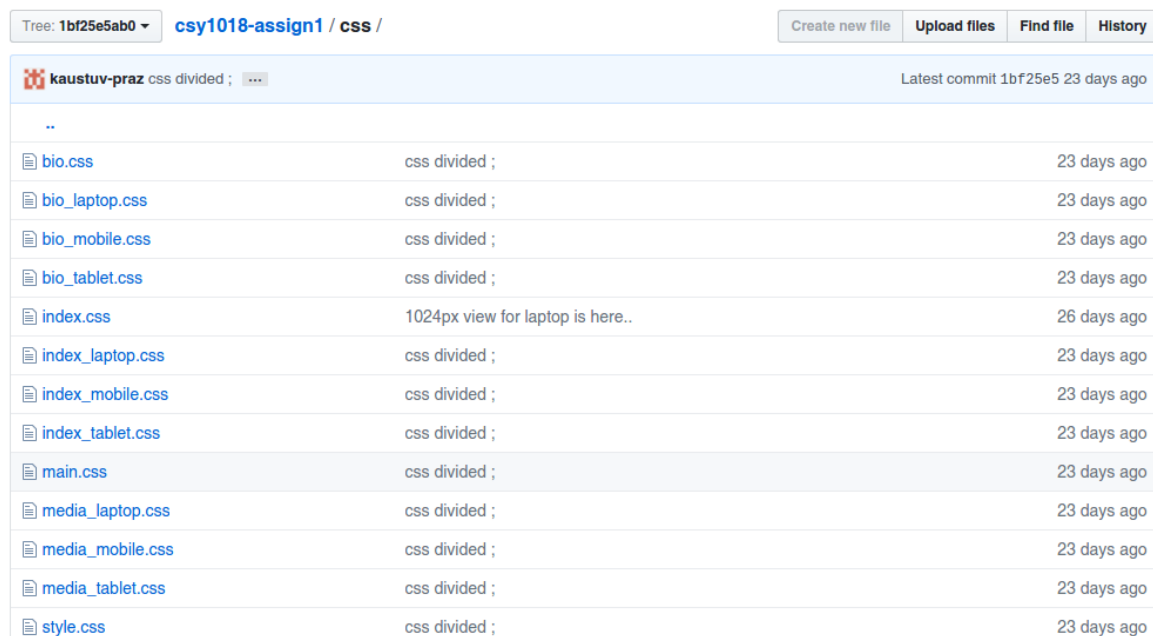


Figure 2.3.9 Github screenshot 'css' folder on 18<sup>th</sup> commit

### 2.3.5 5<sup>th</sup> week of project development.

This week the CSS was improved, code redundancy is minimized are added to make website more attractive and readable, paragraph and line spacing are managed. Also error handling was done & validation improvement was done.

## 2.4 Error Handling

### 2.4.1 Header And Footer

- The header part consist of logo, git hub live URL and navigation panel.
- The footer consist of contact links, social media links and copyright info.

Problems in header and footer.

I got the header design idea form <https://joel.sh/about>, but the codes are my own. After I create the header and footer as I designed in wire frame, the website was working as I expected, but when I check the validation in HTML 5 validator.(<https://validator.w3.org>) it gives the error that Element <a> not allowed as child of element <ul> in this context.

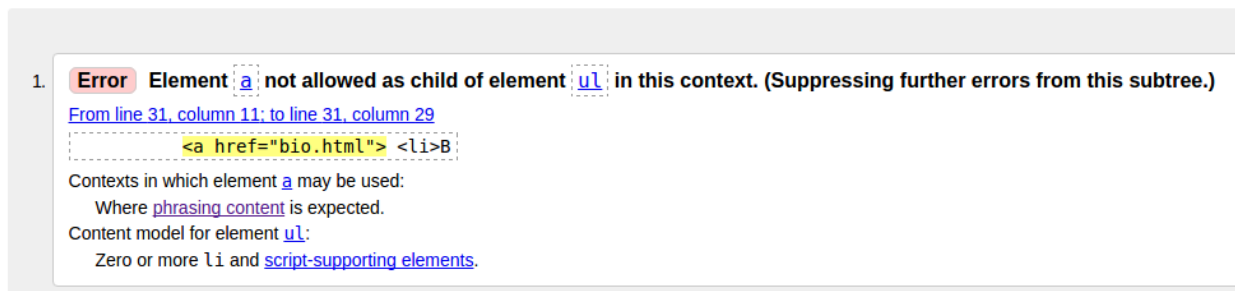


Figure 2.4.1 error on header.

To overcome this error I create a <div> inside <li> element and use <a> on that <div>. Similar problem appear on the footer <ul> as well.

In order to improve the graphic of logo the 3D-Rotation and transparency is used. There are 2 logo image on left top corner overlapping one on another for better graphic and less memory consumption. After debugging the errors and improving the color/graphics header and footer looked as in the figure xx

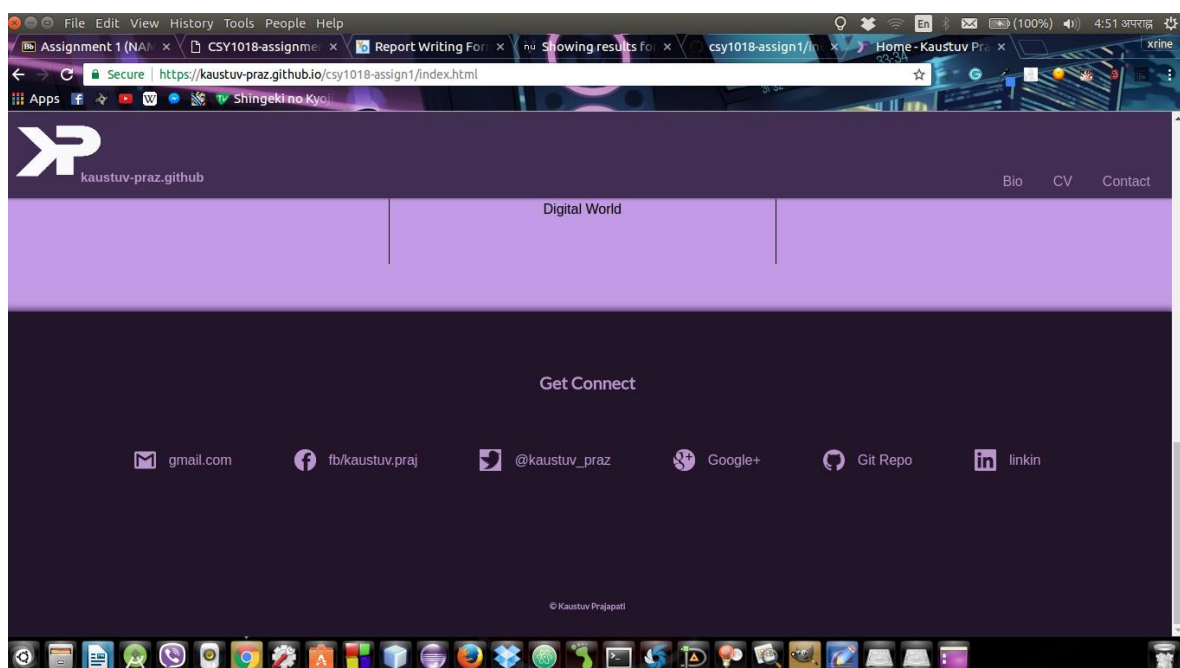


Figure 2.4.2 after error debugged

### 2.4.2 CSS Errors:

The <https://jigsaw.w3.org/css-validator/> css validator shows the below codes are error.

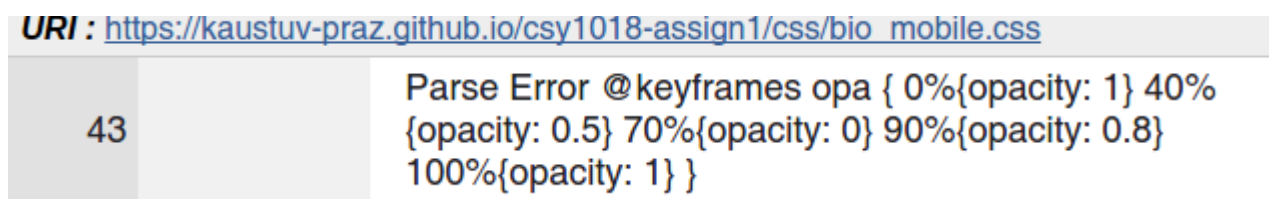
```
41
42  ✓ @keyframes opa {
43      0%{opacity: 1}
44      40%{opacity: 0.5}
45      70%{opacity: 0}
46      90%{opacity: 0.8}
47      100%{opacity: 1}
48  }
49
```

Figure 2.4.3 Atom screenshot of @keyframes code

I found that this error was only on media queries but

not on actual CSS. Thus to remove this error i removed the code form media queries and make it available on non-media queries file.

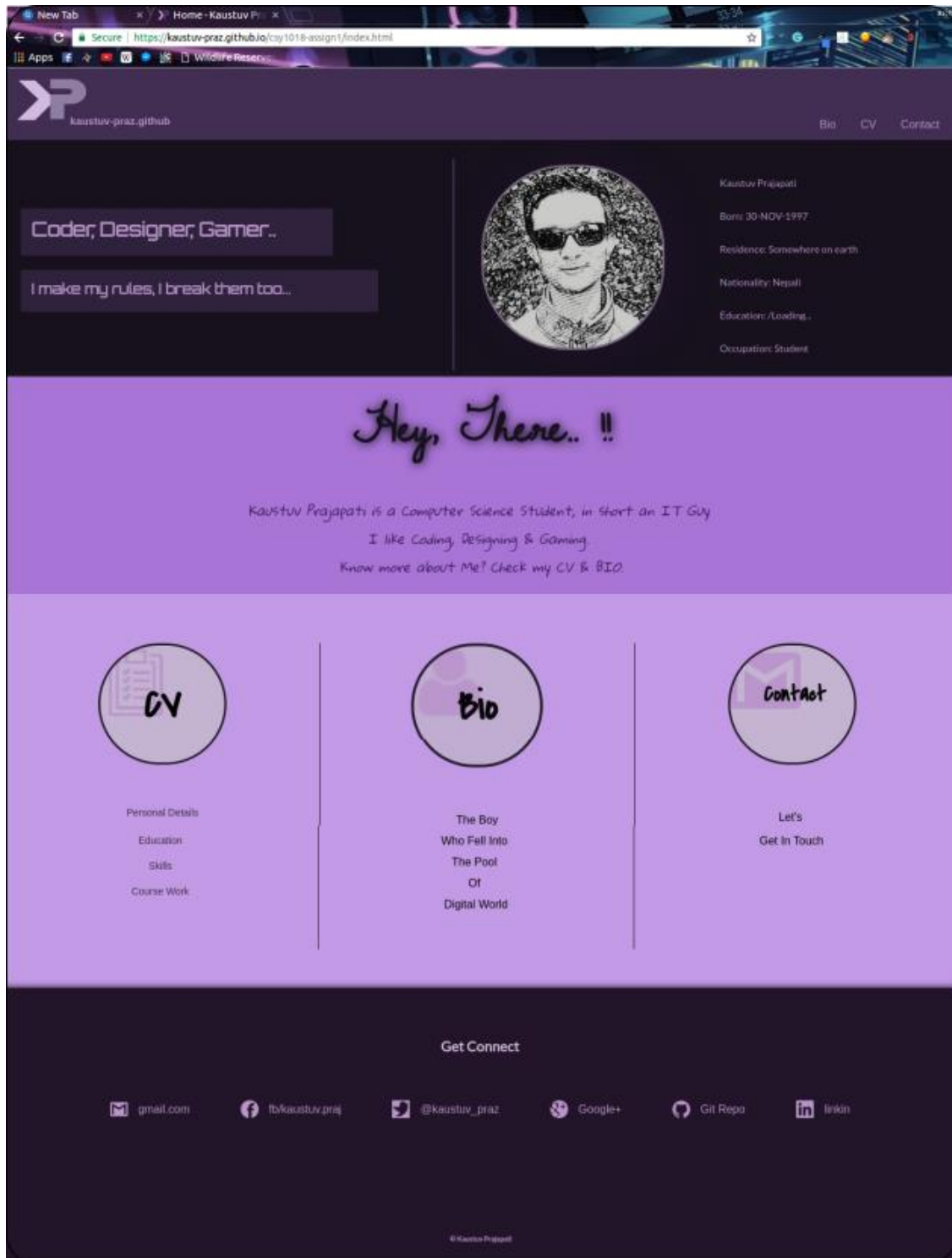
Figure 2.4.4 Css validator shows Error on @keyframe code{ }



### 3. Prototypes

#### 3.1 Home page (index page) prototypes.

##### 3.1.1 Home page Desktop/Laptop view (width 1024px to 1440px)

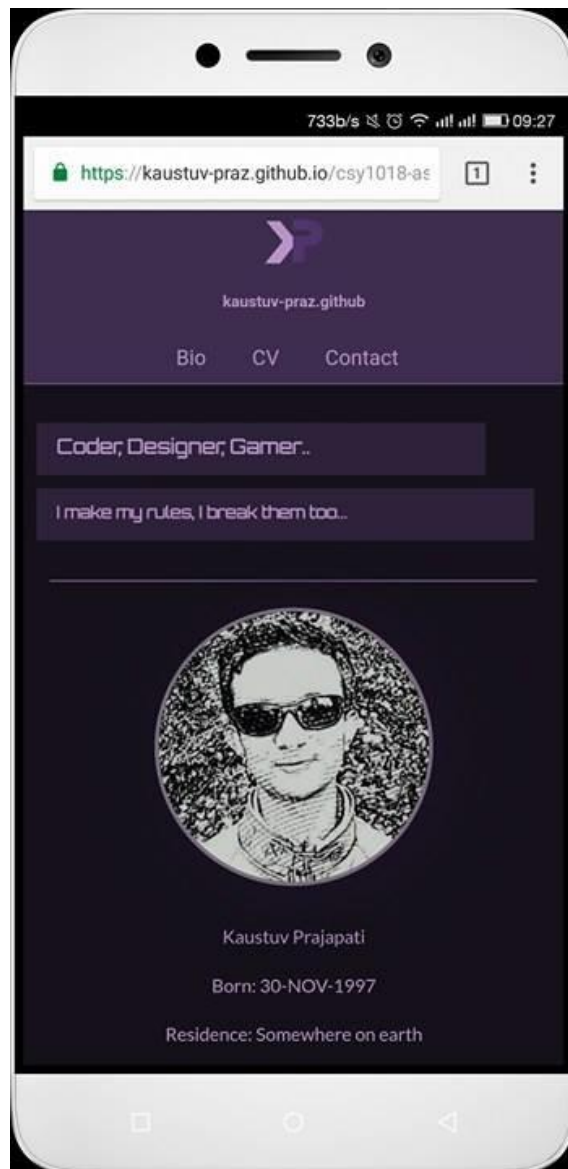




### 3.1.2 Home page tablet view (Max-width: 768px)

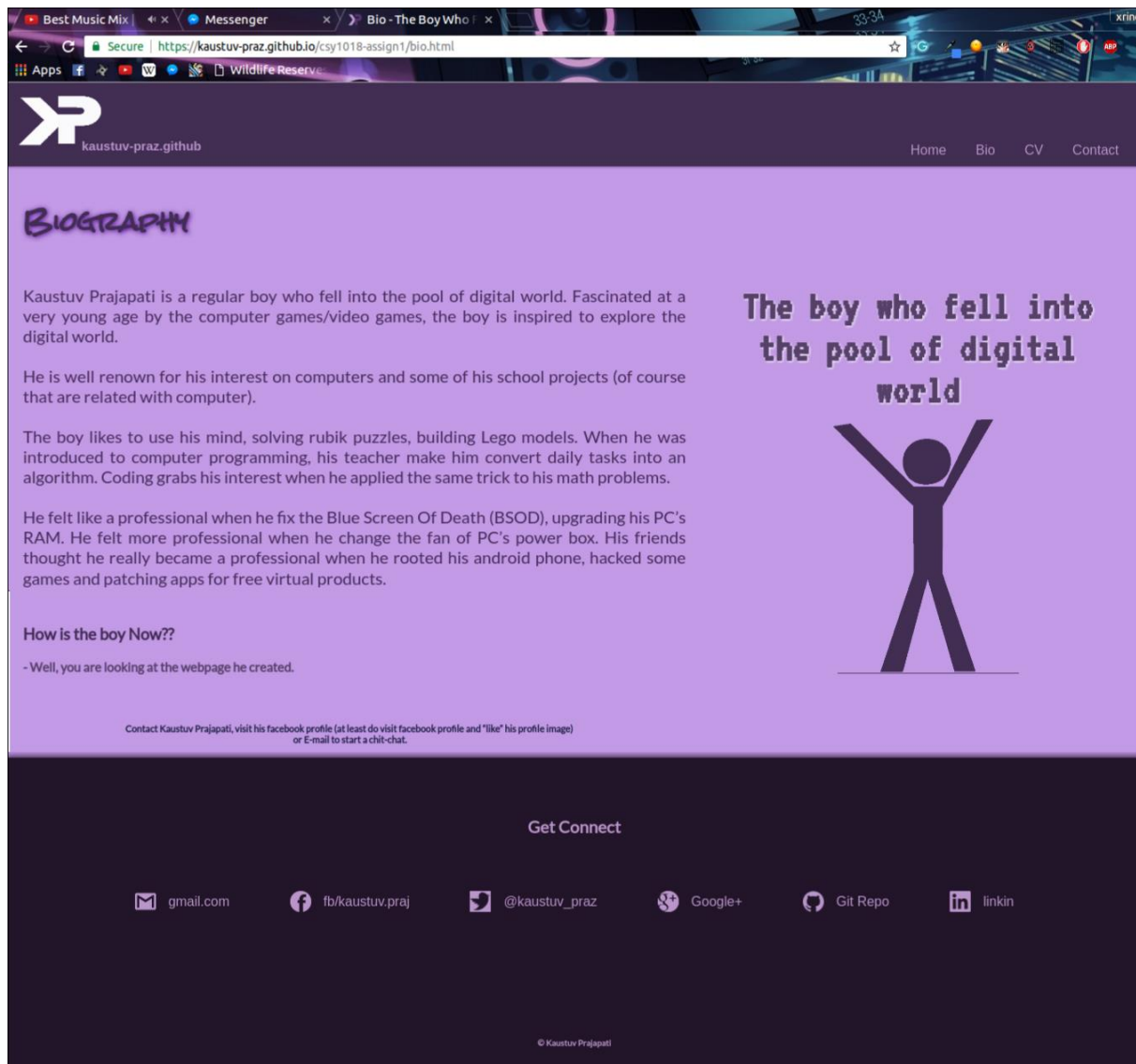


### 3.1.3 Home page Mobile view (width 320px to 425px)

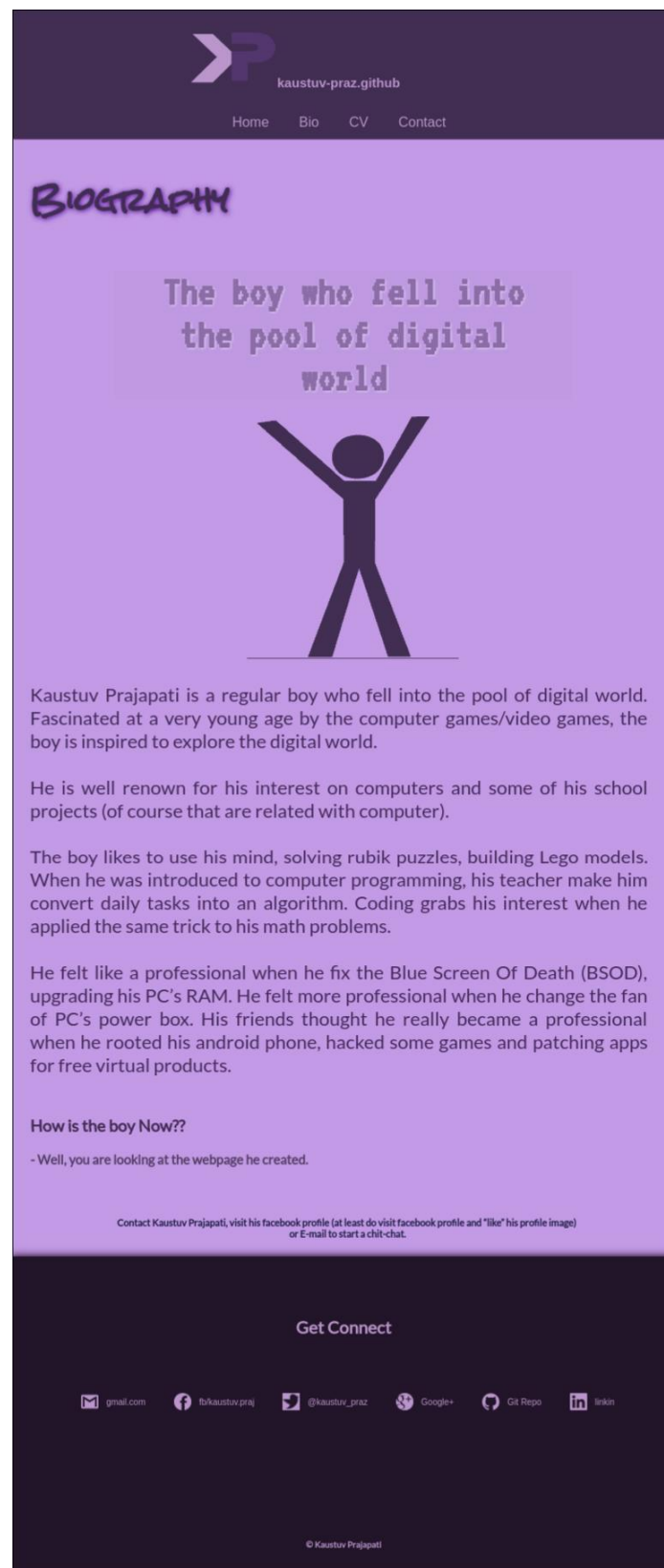


## 3.2 Biography page prototype.

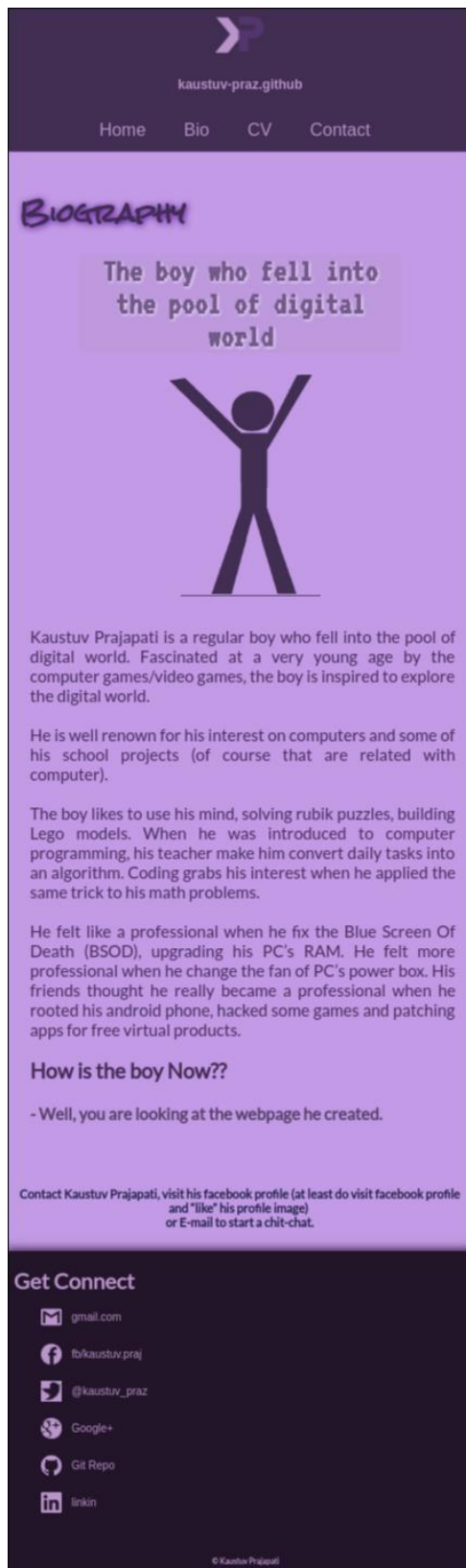
### 3.2.1 Biography page Desktop/Laptop view (width 1024px to 1440px)



### 3.2.2 Biography page tablet view (Max-width: 768px)

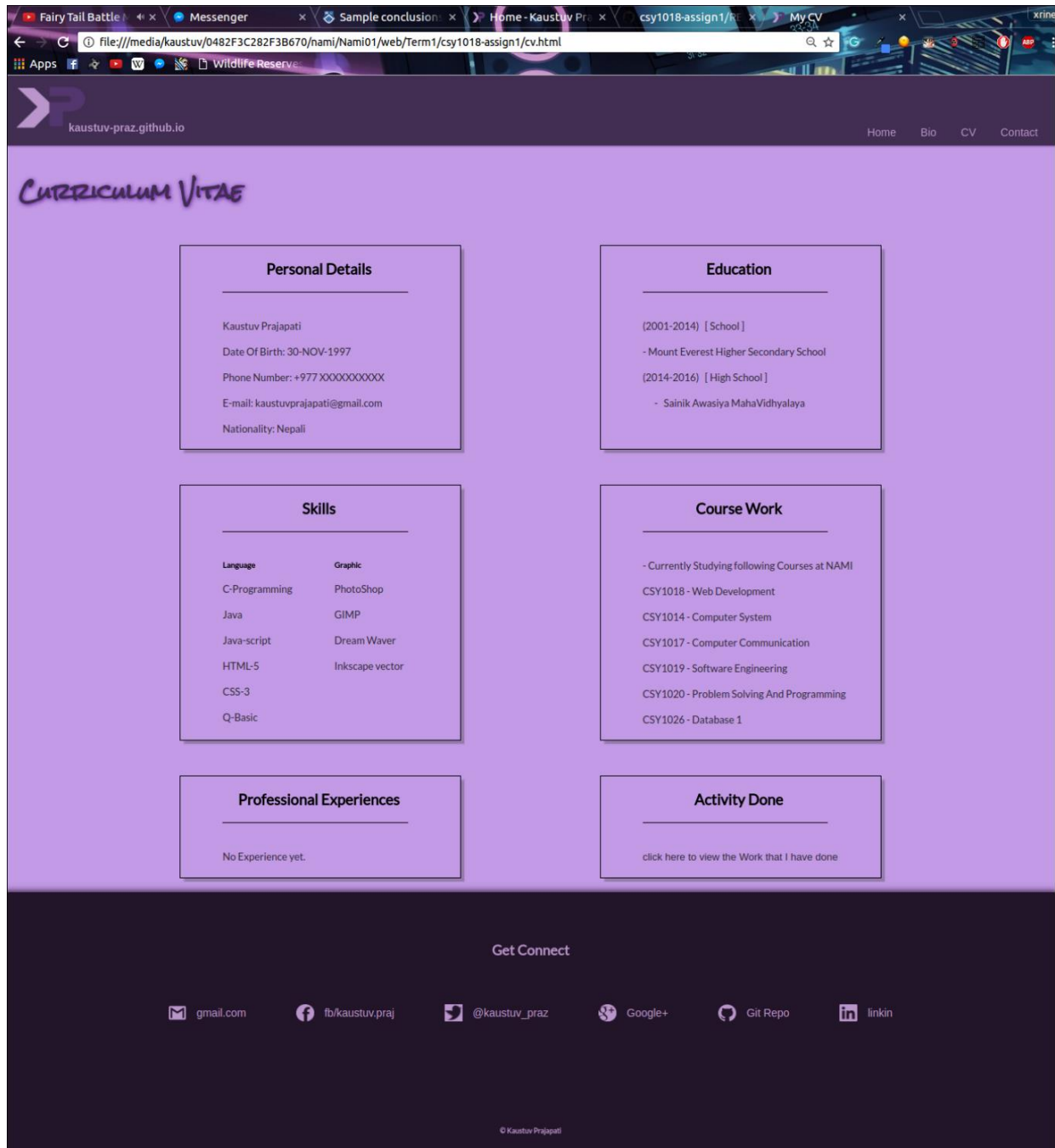


### 3.2.3 Biography page Mobile view (width 320px to 425px)



### 3.3 CV page prototypes.

#### 3.3.1 CVpage Desktop/Laptop view (width 1024px to 1440px)

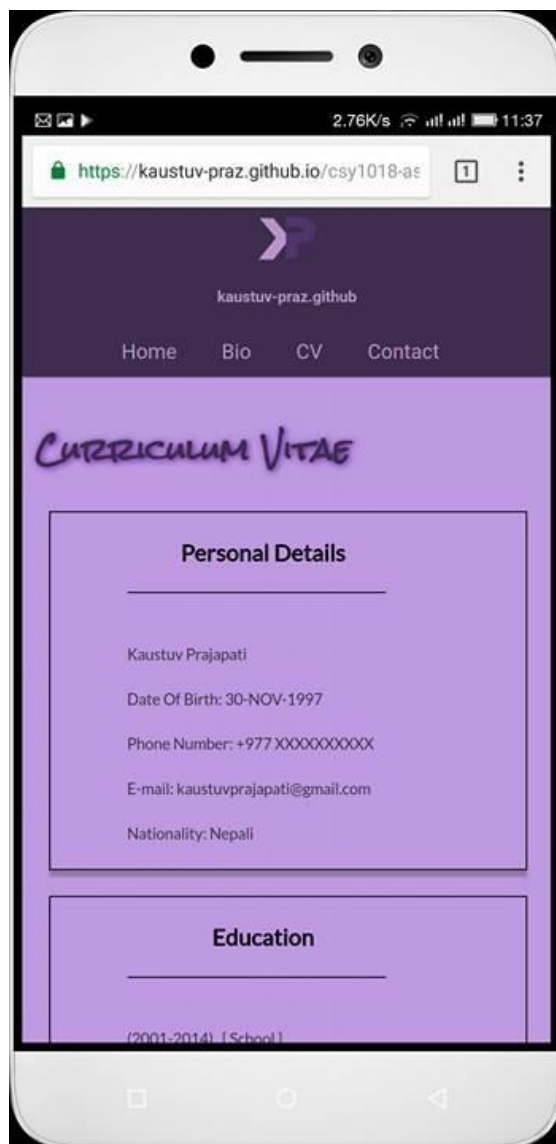
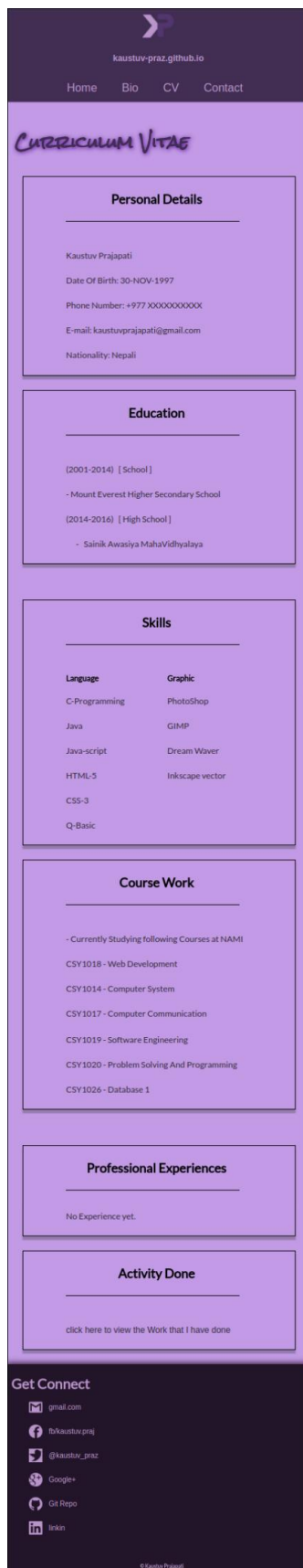




### 3.3.2 CV page tablet view (Max-width: 768px)



### 3.3.3 CV page Mobile view (width 320px to 425px)



### 3.4 Contact page prototypes.

#### 3.4.1 Contact page Desktop/Laptop view (width 1024px to 1440px)

Best Music Mix | Messenger | Contact Here

Secure | <https://kaustuv-praz.github.io/cy1018-assign1/contact.html>

Apps | f | W | Wildlife Reserv

**P** kaustuv-praz.github

Home Bio CV Contact

## Get IN Touch

### Your Details

Firstname	Lastname
Phone Number	E-Mail Address
Company (optional)	Location (optional)
Your Website (optional)	

Reset All Values

### Your Message

Message Topic

Write Your Text


Cancel Send

Get Connect

gmail.com fb/kaustuv.praj @kaustuv\_praz Google+ Git Repo linkin

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### 3.4.2 Contact page tablet view (Max-width: 768px)

 kaustuv-praz.github.io

Home Bio CV Contact

Get IN Touch

Your Details

Firstname

Lastname

Phone Number

E-Mail Address

Company (optional)

Location (optional)

Your Website (optional)

Reset All Values

Your Message


Message Topic


Write Your Text


Cancel


Send


Get Connect


 gmail.com

 fb/kaustuv\_praj

 @kaustuv\_praz

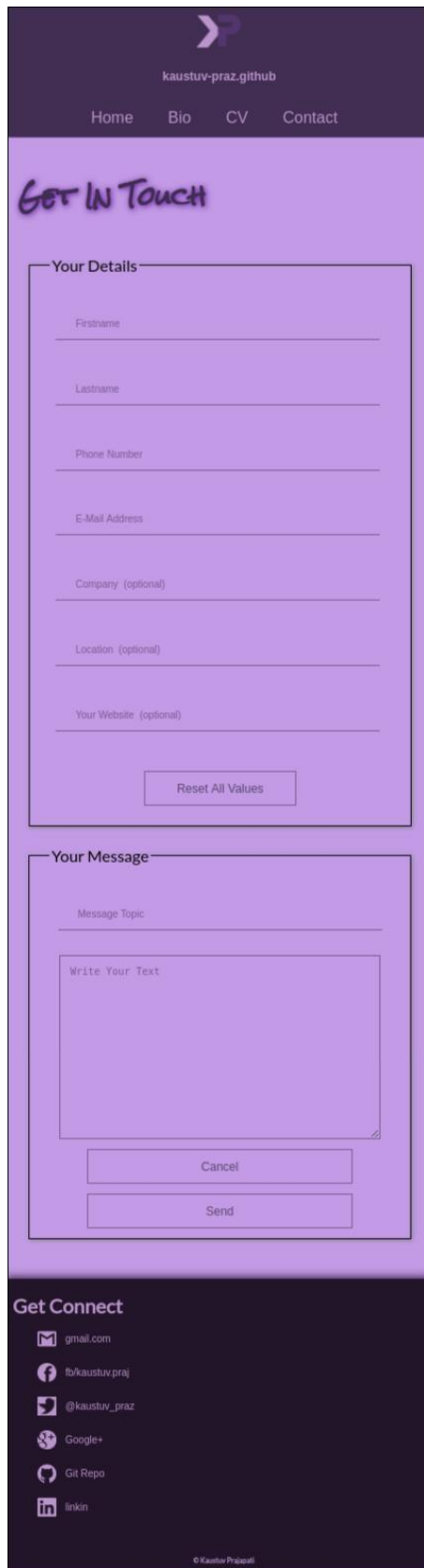
 Google+

 Git Repo

 linkedin

© Kaustuv Prajapati

### 3.4.3 Contact page Mobile view (width 320px to 425px)



The desktop view of the contact page features a dark purple header with the logo and navigation links. The main content area is light purple and contains a 'Get IN Touch' heading, a 'Your Details' form with fields for Firstname, Lastname, Phone Number, E-Mail Address, Company (optional), Location (optional), and Your Website (optional), and a 'Your Message' form with a Message Topic field and a text area. A 'Reset All Values' button is located below the 'Your Details' form. The footer is dark purple and contains a 'Get Connect' section with social media links for Gmail, Facebook, Twitter, Google+, Git Repo, and LinkedIn, along with a copyright notice.

kaustuv-praz.github

Home Bio CV Contact

## Get IN Touch

Your Details

Firstname

Lastname

Phone Number

E-Mail Address

Company (optional)

Location (optional)

Your Website (optional)

Reset All Values

Your Message

Message Topic

Write Your Text

Cancel

Send

Get Connect

gmail.com

fb/kaustuv-praz

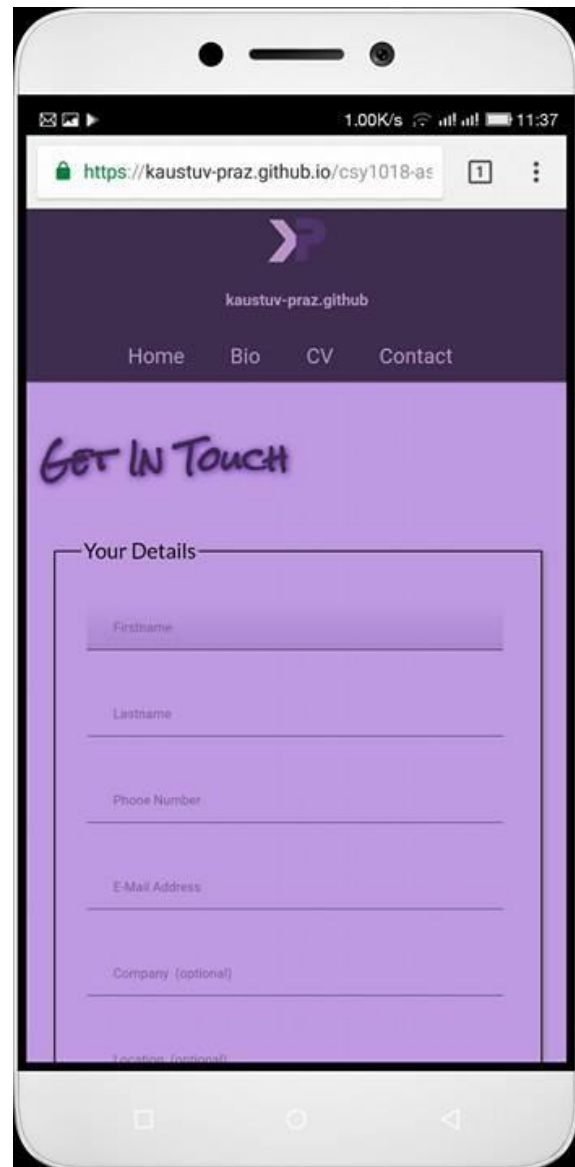
@kaustuv-praz

Google+

Git Repo

linkedin

© Kaustuv Prasad



The mobile view of the contact page is shown on a smartphone screen. The header and navigation links are visible. The 'Get IN Touch' heading is prominent. The 'Your Details' form is displayed with fields for Firstname, Lastname, Phone Number, E-Mail Address, Company (optional), and Location (optional). The 'Your Message' form is also visible, showing the Message Topic field and the text area. The 'Reset All Values' button is present below the 'Your Details' form. The footer is not visible in this view.

https://kaustuv-praz.github.io/csy1018-ae

kaustuv-praz.github

Home Bio CV Contact

## Get IN Touch

Your Details

Firstname

Lastname

Phone Number

E-Mail Address

Company (optional)

Location (optional)

## 4. Website Load Speed

I used <https://tools.pingdom.com/> website to check the load speed of my website and get the following result. The site was tested from Dallas, USA. I have compressed the images that I have used in my website and use less graphic. From the Report Figure it is clear that the total size of my home page is 207.3kB which takes 531ms to Load in server at Dallas.

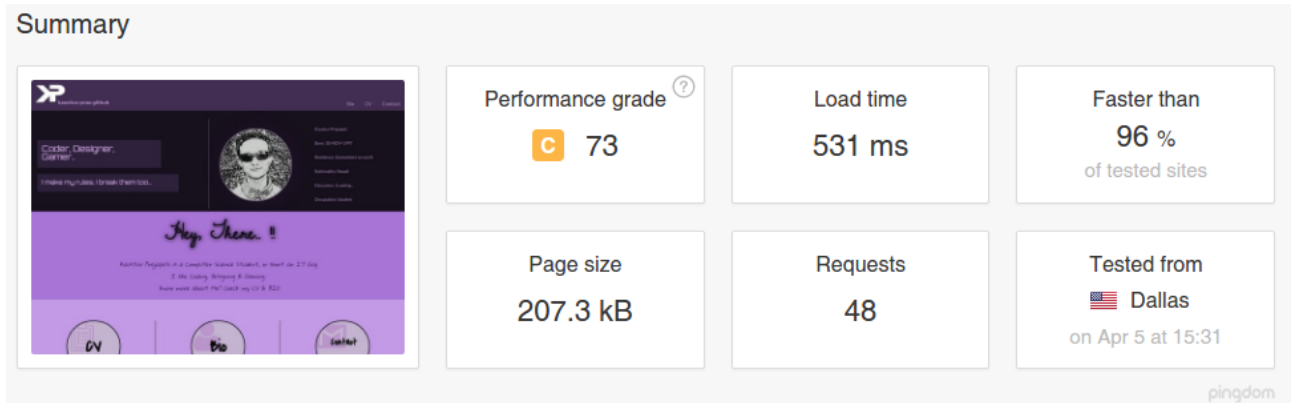


Figure 4.1 Screenshot from [tools.pingdom.com](https://tools.pingdom.com/), site load speed check

## 5 Good Practices followed to create this website

### 5.1 Use of Google API fonts.

The Google API font is used instead of device default fonts or loaded fonts. Now the font I have used will work on all the devices that are browsing my page online. It will take less data.

### 5.2 Use of compressed image

All the images that are used in website are compressed through photo editing software GIMP. The website size is very Low.

### 5.3 User of CSS-Code animations and transitions.

CSS-Code animation and transitions are used instead of heavy GIF images, and Gradient image.

### 5.4 Used validation check

Validation of the website is checked through <https://validator.w3.org/> for HTML-5 codes and <https://jigsaw.w3.org/css-validator/> for CSS-3 codes.



## 6 Conclusion

The prototype and development of a website (portfolio website) is introduced. The website is created only by using HTML-5 & CSS-3, thus the contact form do not work. Web site is fully based on the new flex-box architecture and is made responsive to all standard screen. Hover, transitions and animation properties are used to make the website more interactive and user-friendly.

Because of limited time and restrictions, there are some features that are not added in the website, such as;

- Downloadable CV.
- Functional Contact Form.
- Scroll transitions.

## 7 References

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