Module Code & Module Title

CC4057NI Introduction to Information Systems

Assessment Weightage & Type

40% Individual Coursework

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I confirm that I understand my coursework needs to be submitted online via Google Classroom under the relevant module page before the deadline in order for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a marks of zero will be awarded.

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INTRODUCTION

This project is about creating a portfolio website. This will test the student's ability to design a website using appropriate tools and technologies, use scripting languages like JavaScript in our web pages and have an understanding of the structure of the website and navigation rules. The project will contain 5 web pages which will contain the following pages:

1. **Home**

➔ This page will contain basic information about the other pages.

2. **CV**

➔ The about page will contain a short introduction of the developer of the website and also a link to his CV page that will open up in a new tab.

3. **Blog**

➔ This page will contain a blog on the topic "Effect of technology in our daily life".

4. **Research**

➔ This page will contain information on the websites that were used as reference while creating the portfolio and also how the user implemented it.

5. **Contact**

➔ This page contains a form that can be user to get in touch with the developer.

Goals and Objectives

The goal is to complete this project by creating a website that is easy to navigate and pleasing to the eye of the user and also create a wireframe for the website. It can be done by using different styling and properly placing the elements in a way that will make the web page look good and appealing to the user. It can be done by styling them with the help of css. There will also be a navigation bar to help the user move from one page from another. The website will be created using HTML5, which is the 5th and final version of HTML(Hyper Text Markup Language, and css will be used to style it. The text editor that will be use for creating our website is Sublime Text. For creating the wireframe, a program called Balsamiq Mockups will be used.

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Discussion and Analysis

Selected Text Editor

Sublime Text editor was used to create the portfolio website. It is a sophisticated text editor for code, markup and prose (Sublime Text, 2020).

Web and software developers use text editors to make code changes or start files from scratch using HTML, CSS, JavaScript, or any other programming language. If you don't know a file's format, you can open it with the text editor to view the source code. Text editors are also useful for removing formatting, font styles and hyperlinks from text. These tasks can be accomplished using the default text editors for Windows or Mac; however, if you're trying to create complex software or websites, a more advanced text editor can make the process much easier. (Arsenault, 2020)

Tool used to create wireframe

Balsamiq Mockups was used to create wireframe.

Balsamiq Mockups is a user interface design tool for creating wireframes (also called **mockups** or low-fidelity prototypes). You can use it to generate digital sketches of your product ideas to facilitate discussion and understanding before any code is written. The completed wireframes can be used for user testing, clarifying your vision, getting feedback from stakeholders, or getting approval to start development. The Balsamiq Wireframes editor interface is made up of five primary areas: the toolbar, the UI_Library, the canvas, the navigator_panel and the properties panel. (Balsamiq, 2020)

Web Pages

1. **Home Page**
   The Home page contains a navigation bar on top that will help the user move from one page to another. and a background that includes a header containing the name of the page. It also contains four <div> element inside another <div>. They contains a little information about the CV, Blog, Research and Contact page and they also each have a link that will take the user to the actual page. At the bottom the page three is a footer. It contains copyright and the name of the developer and some navigational elements.
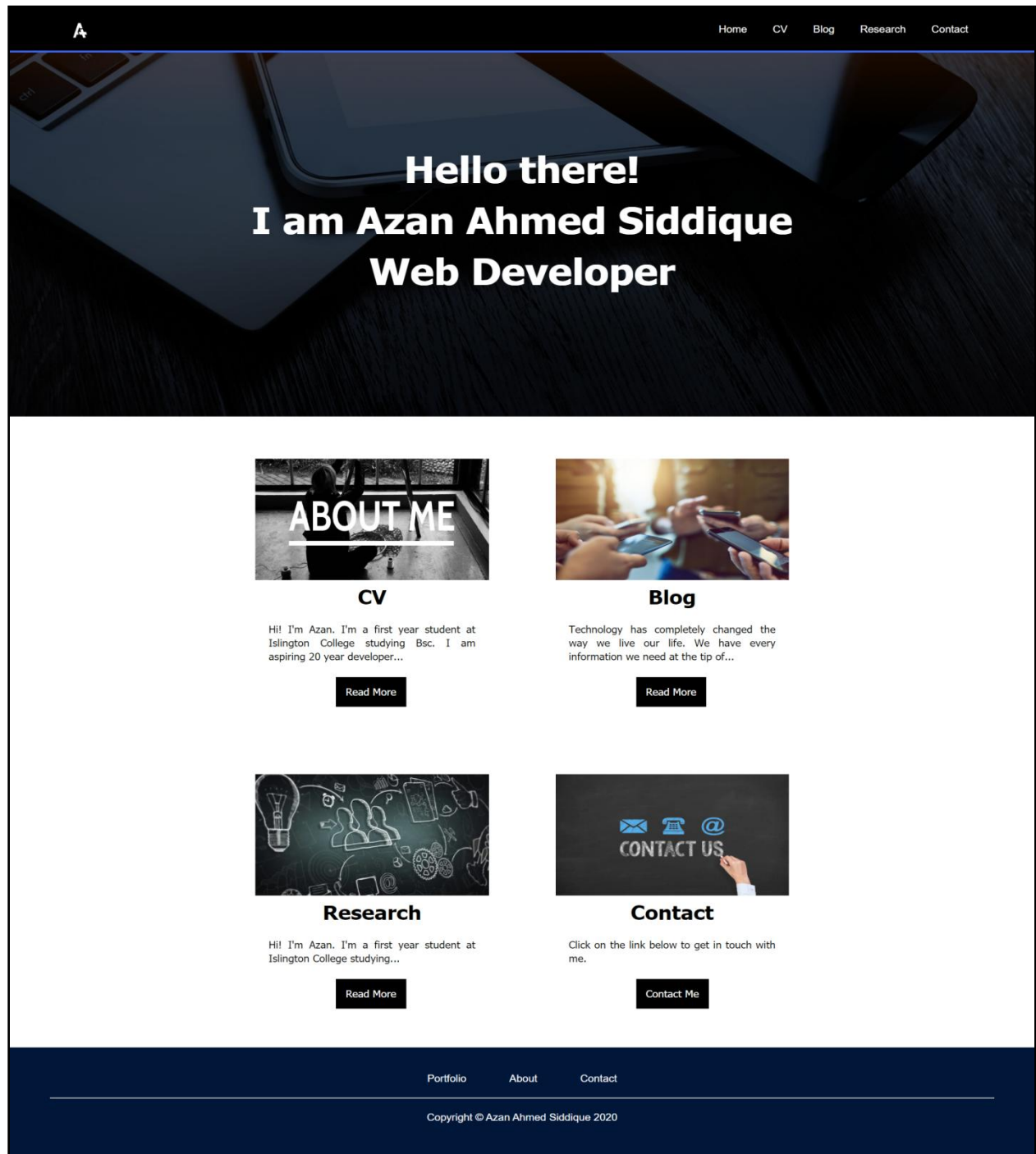
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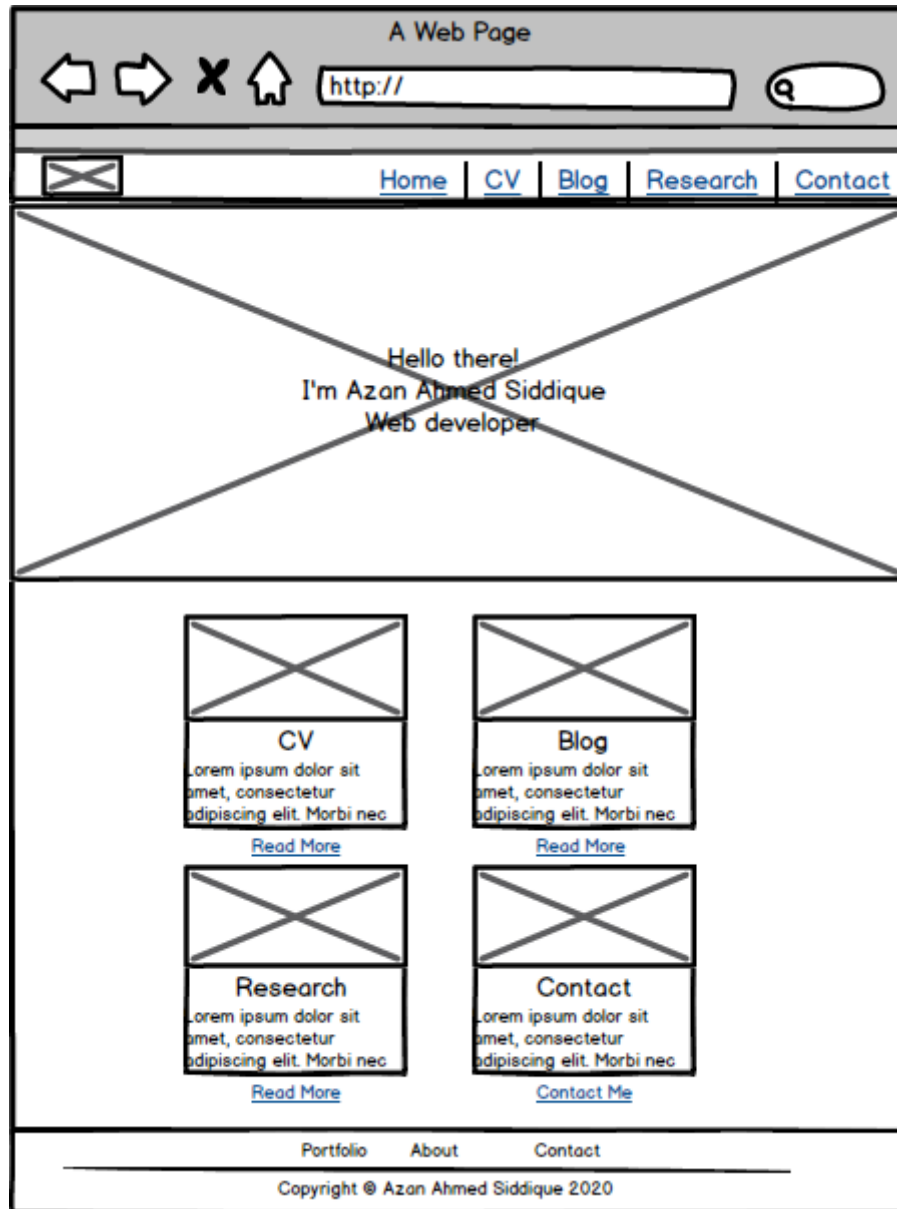*Figure 1: Screenshot of Home page*

Figure 2: Wireframe for home page

2. CV

The CV page contains details about the developer and also includes a link that will take the user to another page that contains for information about the CV. It also contains a navigation bar on top that will help the user move from one page to another and a background that includes a header containing the name of the page. At the bottom of the page three is a footer. It contains copyright and the name of the developer and some navigational elements.
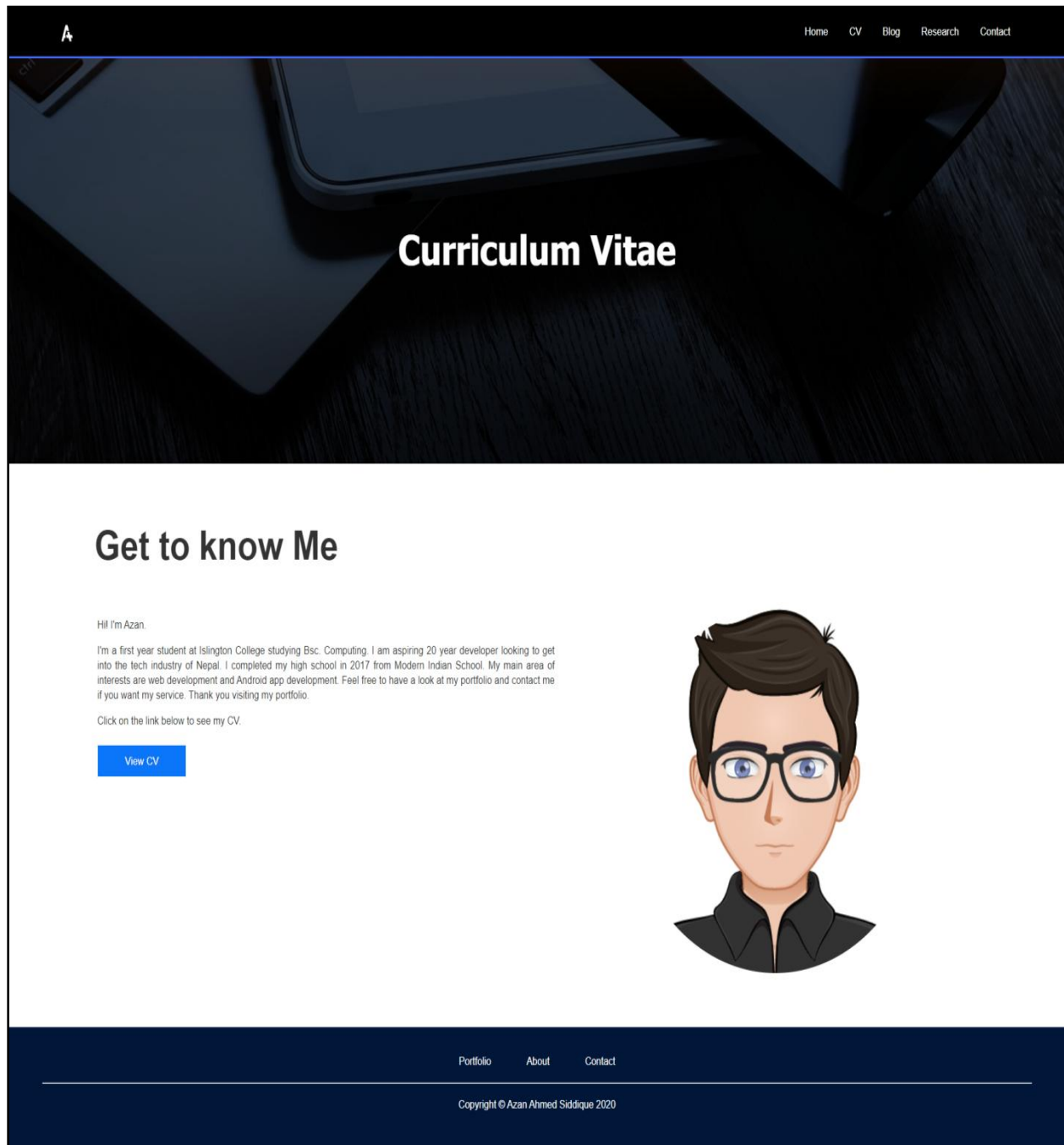
Figure 3: Screenshot of CV page
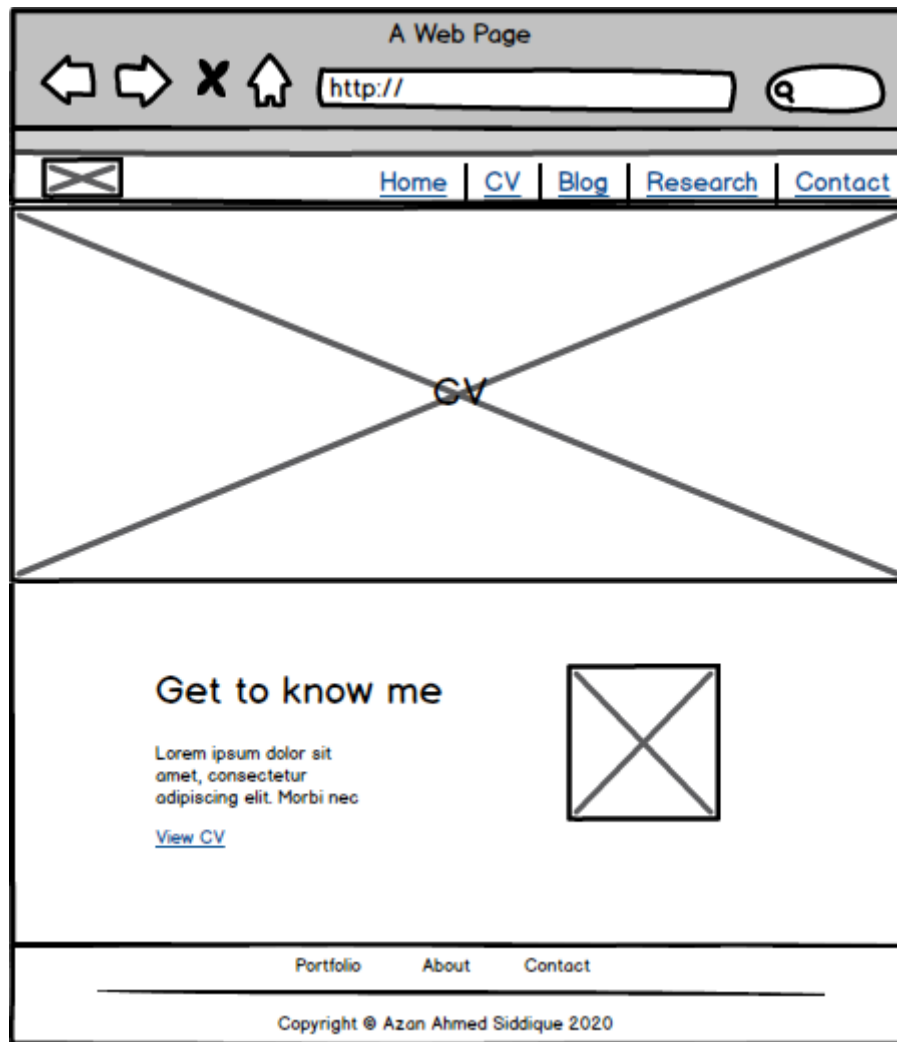
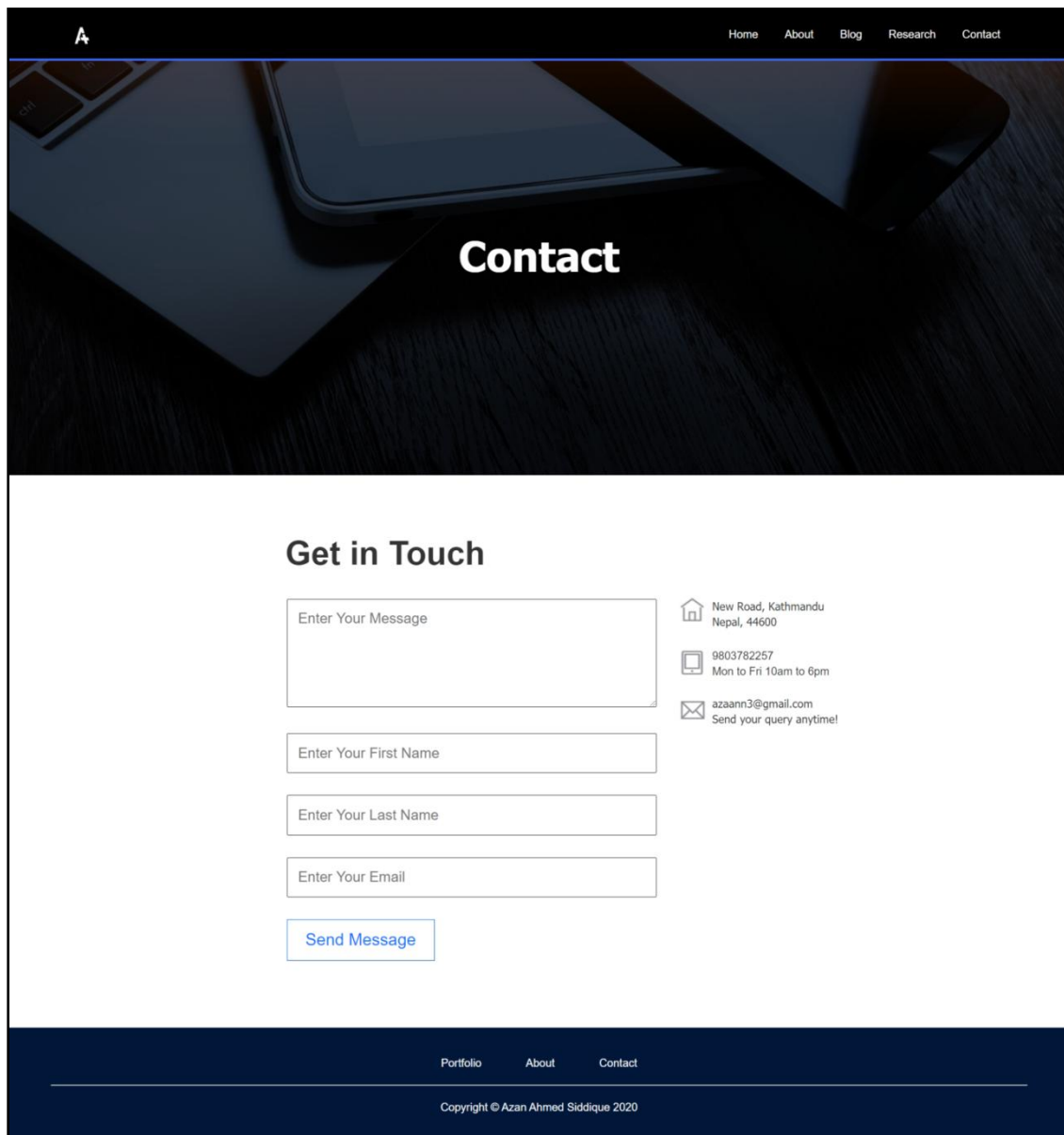*Figure 4: Wireframe for CV page*

3. Blog

The blog page contains an article on the topic "Effects of technology on daily life". It also includes different images and an image slider that automatically cycles through images every three seconds. Like the rest of the pages, it also contains a navigation bar on top and a background that contains the header containing the name of the page. At the bottom the page three is a footer. It contains copyright and the name of the developer and some navigational elements.

Figure 5: Screenshot of Blog page

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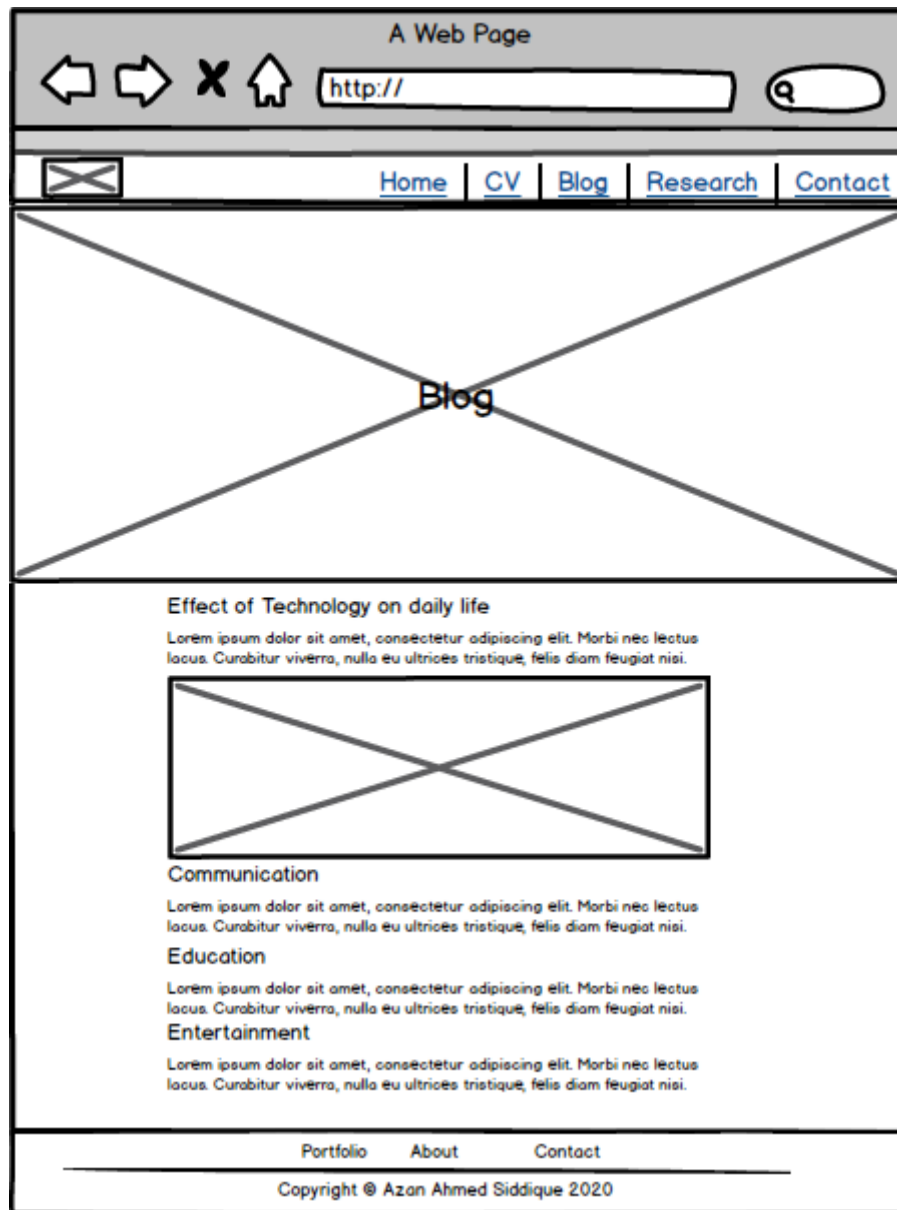
Figure 6: Wireframe for blog page

4. Research

The research page contains images and details about five websites that were used as reference while creating the portfolio and also how and what component or styling was implemented. It also contains a navigation bar on top and a background containing the header with the name of the page inside it. The footer at the bottom contains copyright and the name of the developer and some navigational elements.
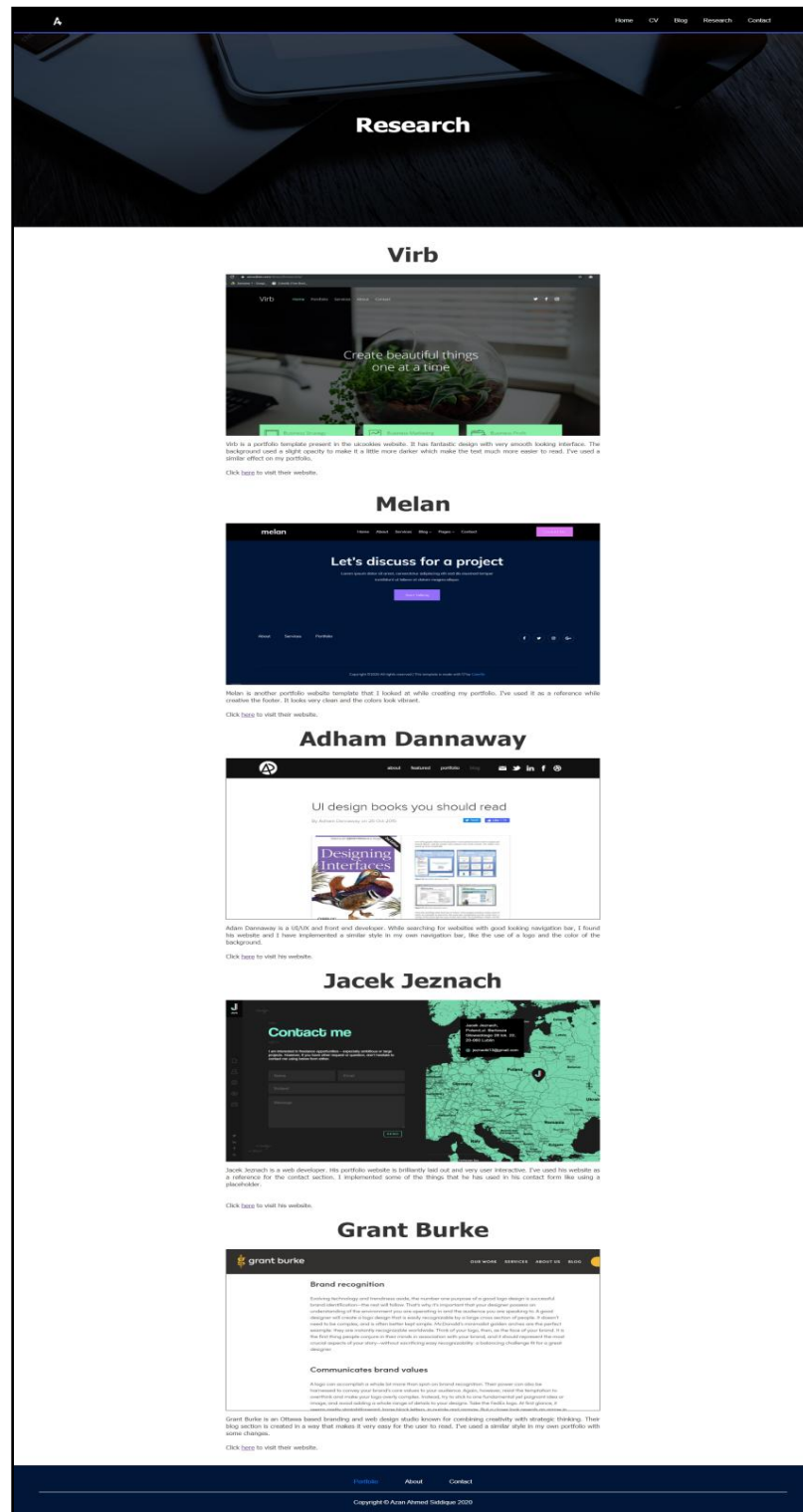
Figure 7: Screenshot of Research page

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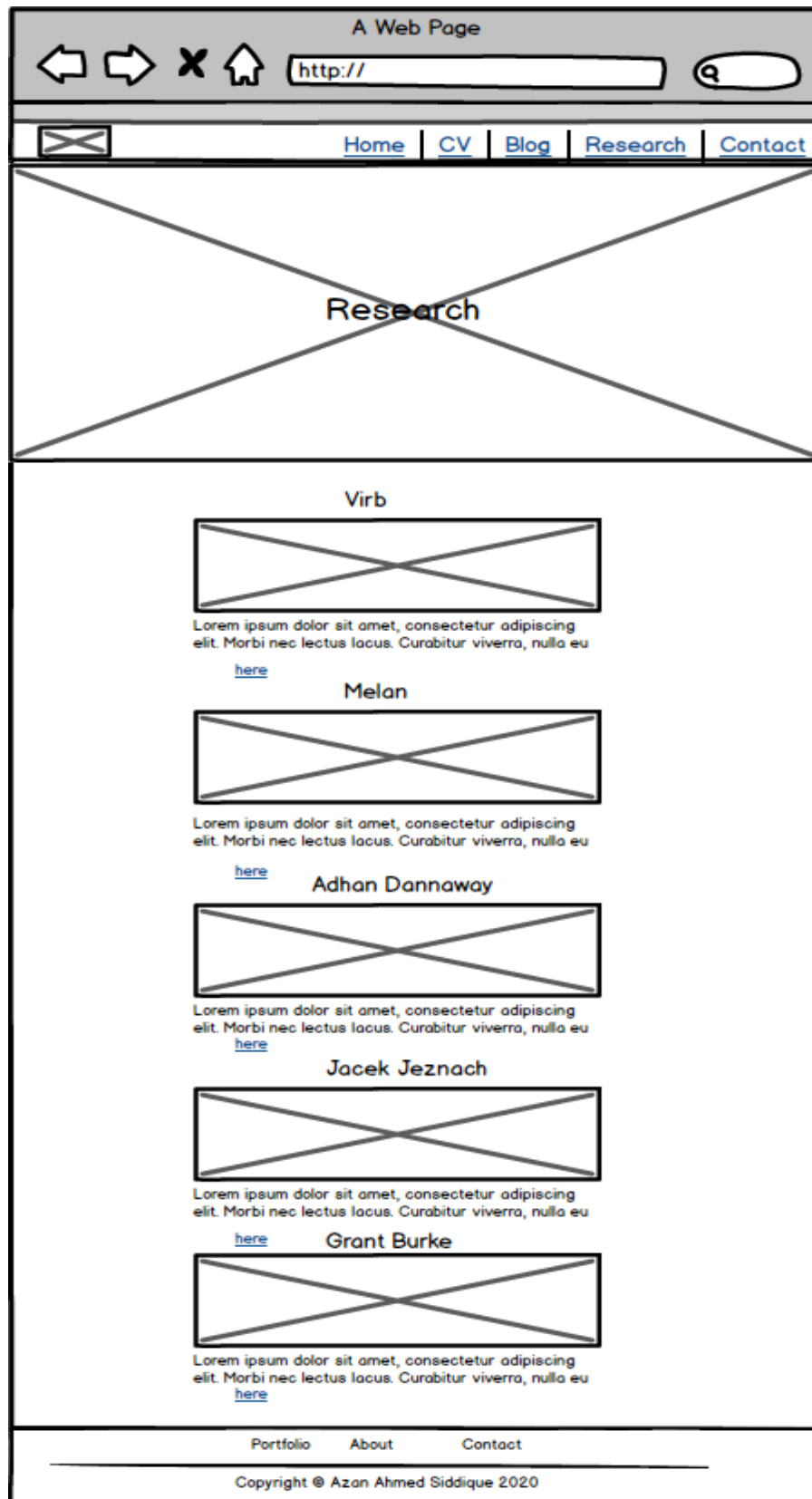
Figure 8: Wireframe for research page

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5. Contact

The contact page contains a form that can be used to get in touch with the developer of the portfolio. The form used javascript to validate the form. If any field is left empty then the user cannot not send message to the developer. There is a navigation bar at the top and a background that includes a header containing the name of the page that the user in on. The footer at the bottom contains copyright and the name of the developer and some navigational elements.

Figure 9: Screenshot of Contact page

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Figure 10: Wireframe for contact page

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Testing

Test 1

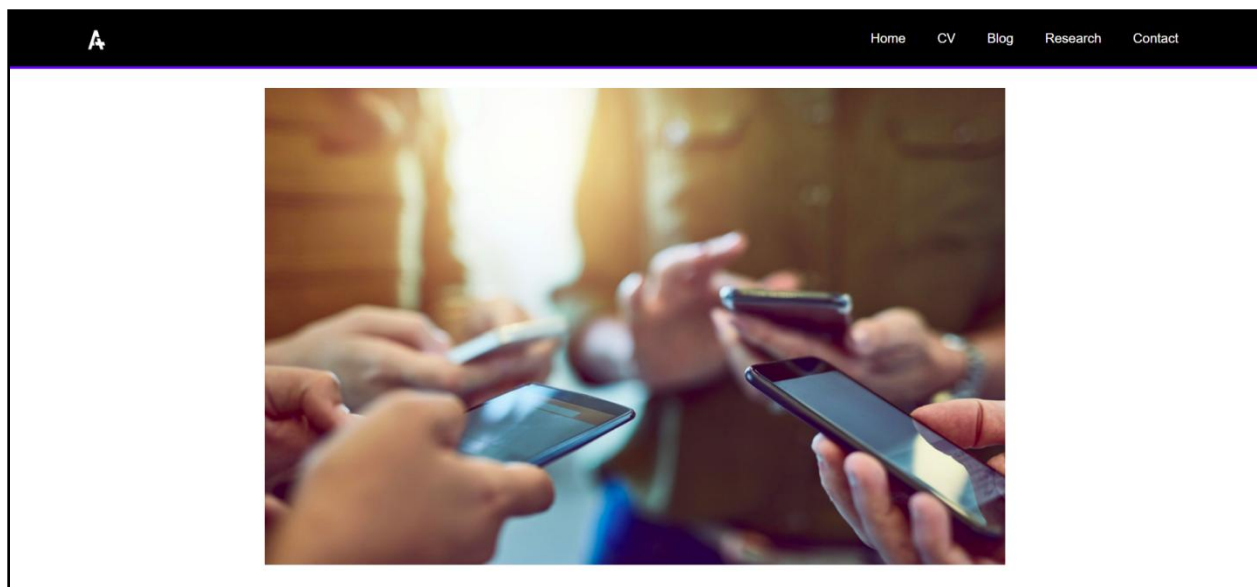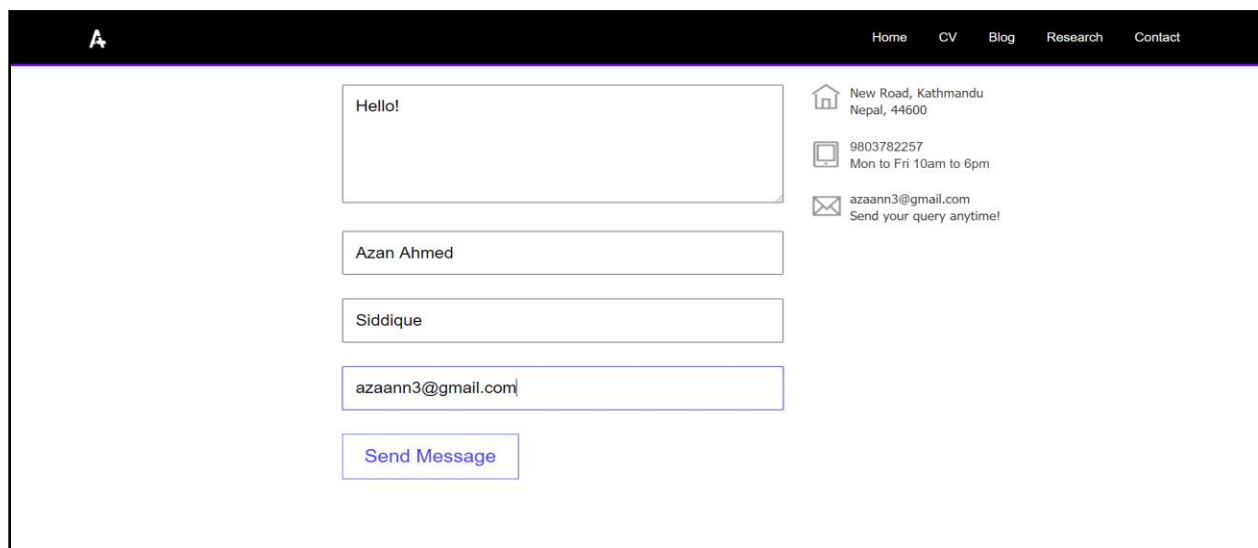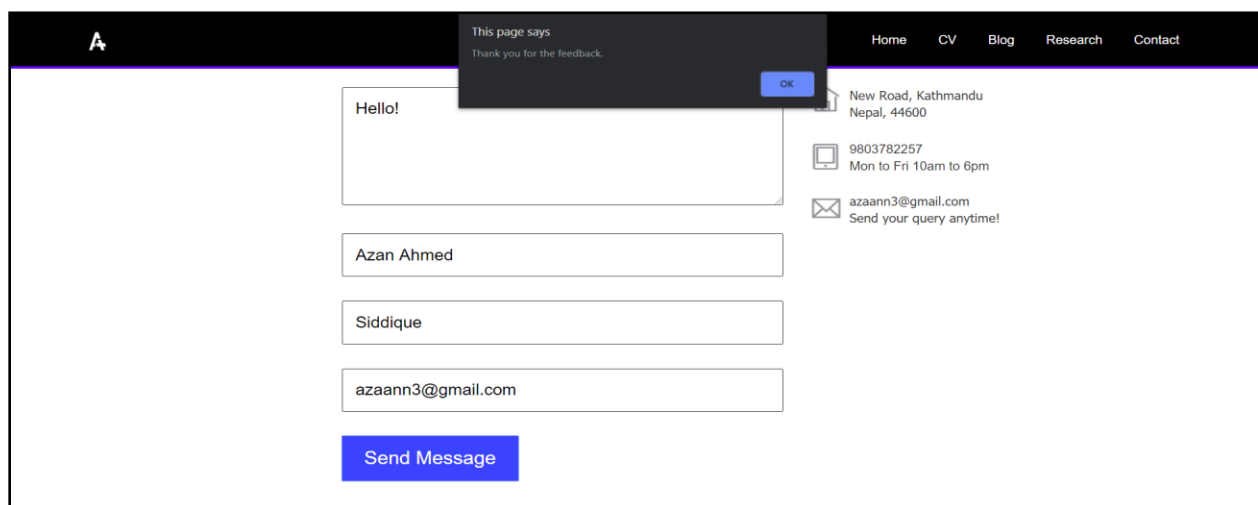| Objective	Slideshow using javascript
Action	Slideshow
Expected Result	The image to change every 3 seconds
Actual Result	The image changes after 3 seconds
Test	Successful

Figure 11: Screenshot of the page at the start

Figure 12: Screenshot of page after 3 seconds

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Test 2

Objective	Form Validation
Action	Send message by filling all the fields.
Expected Result	The user to get an alert box with a message thanking for their feedback.
Actual Result	The user get an alert box with a message thanking for their feedback.
Test	Successful

Figure 13: Sending message

Figure 14: Alert Box
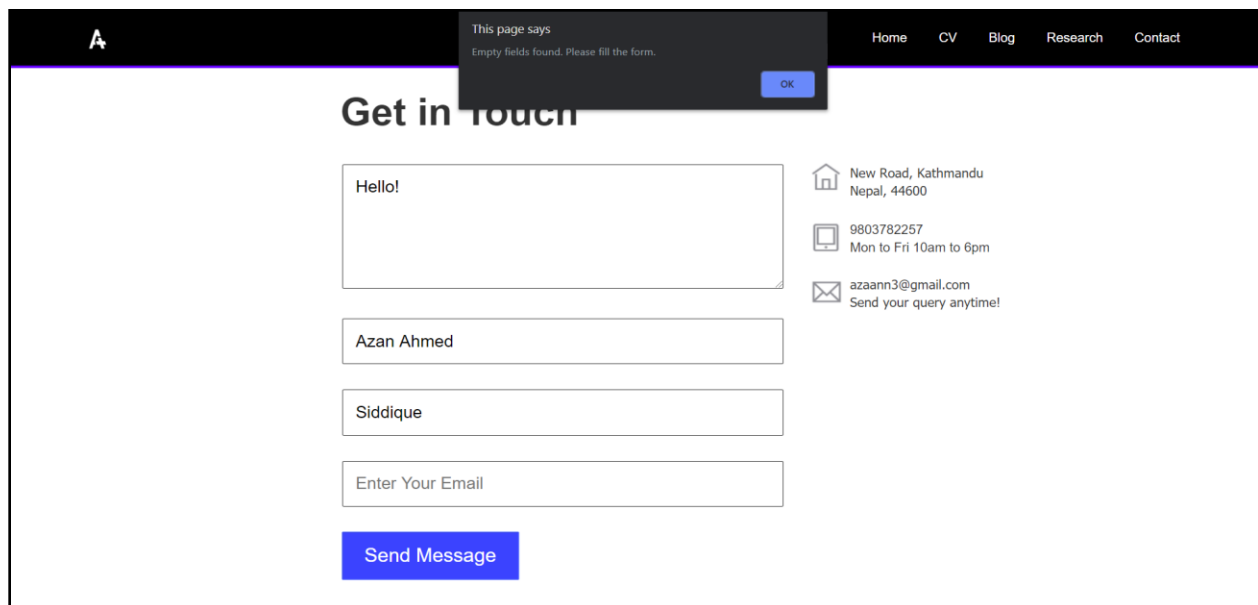
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Test 3

Objective	Form Validation
Action	Send message by leaving a field empty.
Expected Result	The user should get a message in an alert box asking the user to fill all the fields.
Actual Result	The user gets an alert box message asking the user to fill all the fields.
Test	Successful

Figure 15: Sending message with an empty field

Figure 16: Alert box

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Test 4

Objective	Nav hover effect
Action	Move the mouse over to an element in the navbar.
Expected Result	The selected element should be highlighted
Actual Result	The selected element is highlighted
Test	Successful
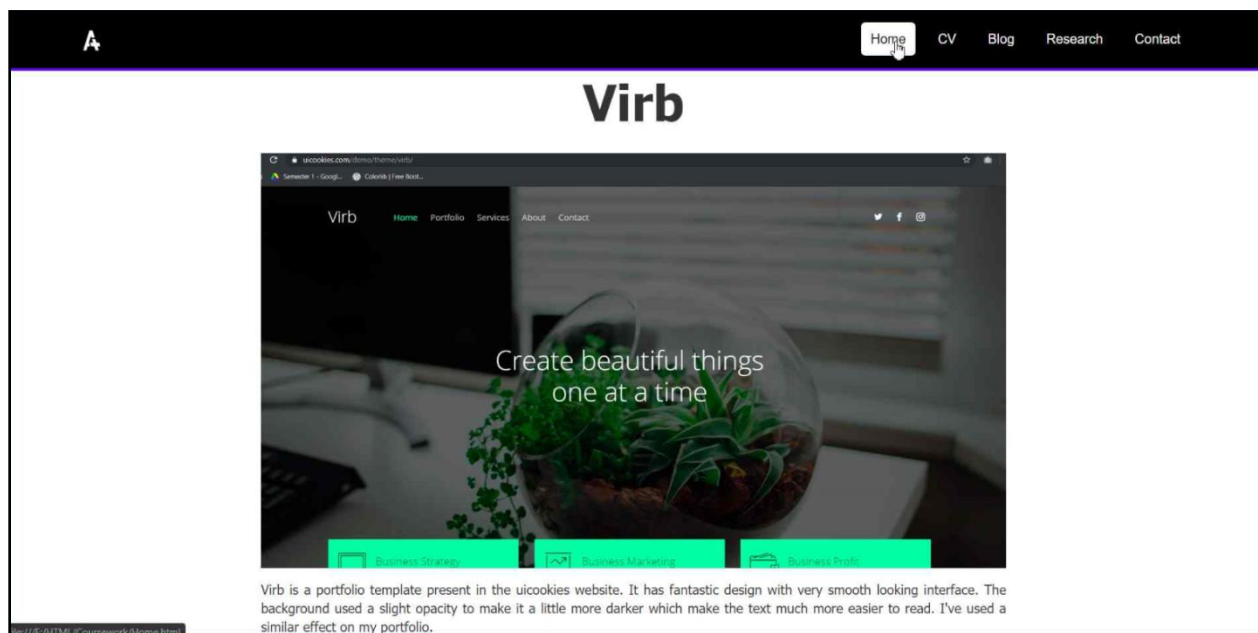
Figure 17: Nav Hover Effect

Test 5

Test 5.1

Objective	Internal link
Action	Clicking on a link
Expected Result	A page present in the same domain should open.
Actual Result	A page present in the same domain opens up.
Test	Successful

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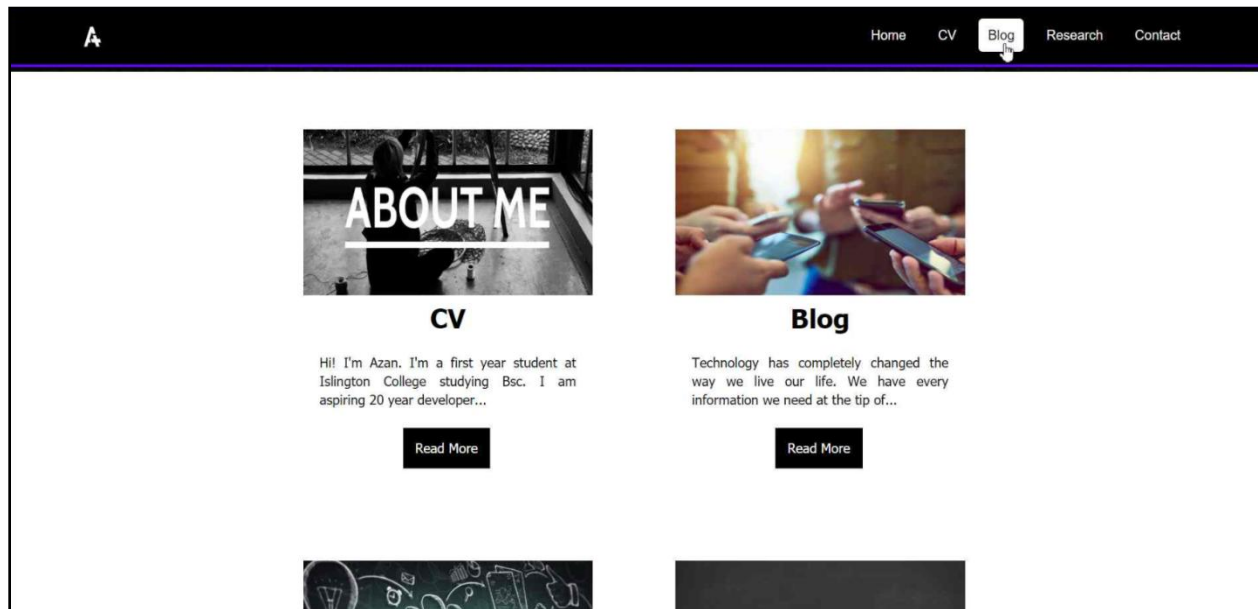
Figure 18: Clicking on the blog link
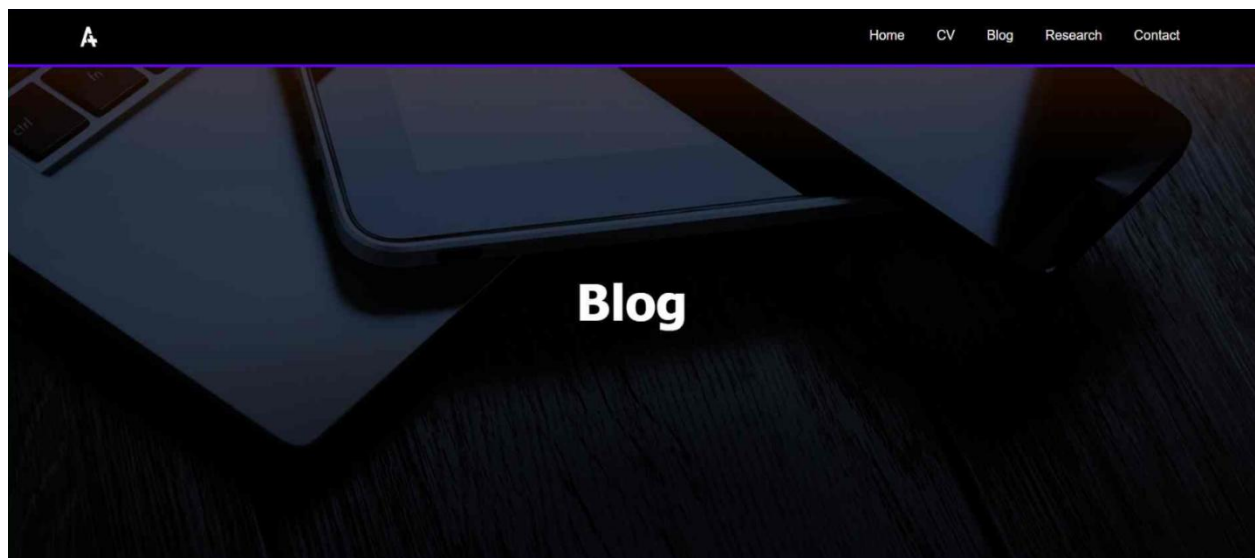
Figure 19: Blog page of the same website

Test 5.2

Objective	External link
Action	Clicking on a link.
Expected Result	The user will be taken to a different website with a different domain.
Actual Result	The user is taken to a different website with a different domain.
Test	Successful

Figure 20: Clicking on the here link

Figure 21: An entirely new website is opened

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Conclusion

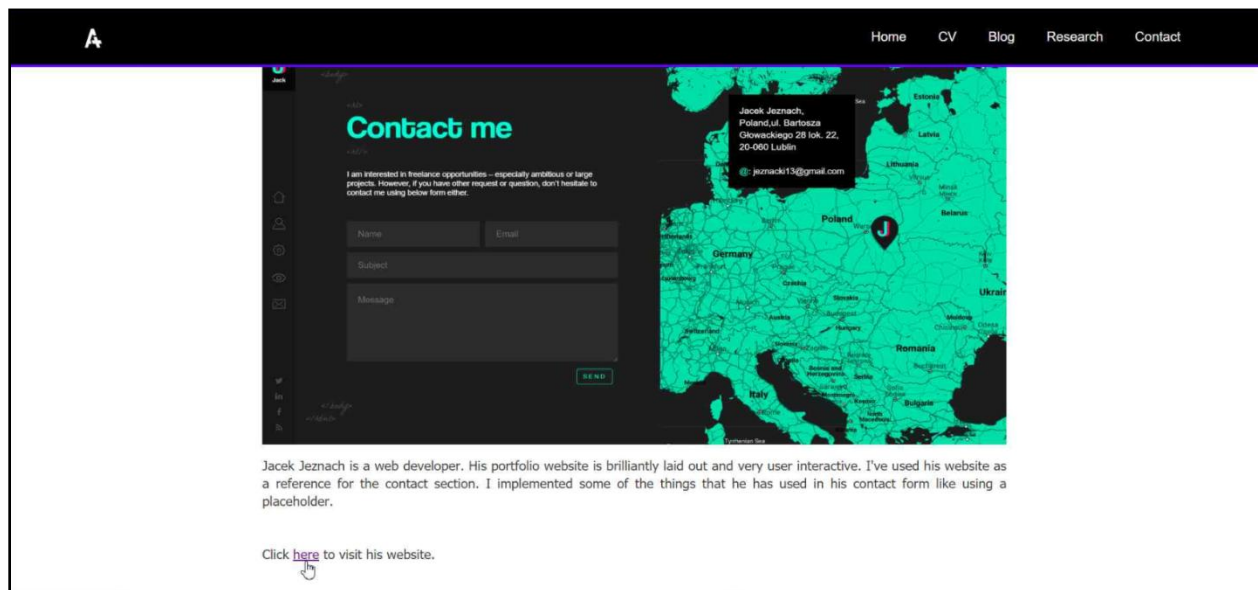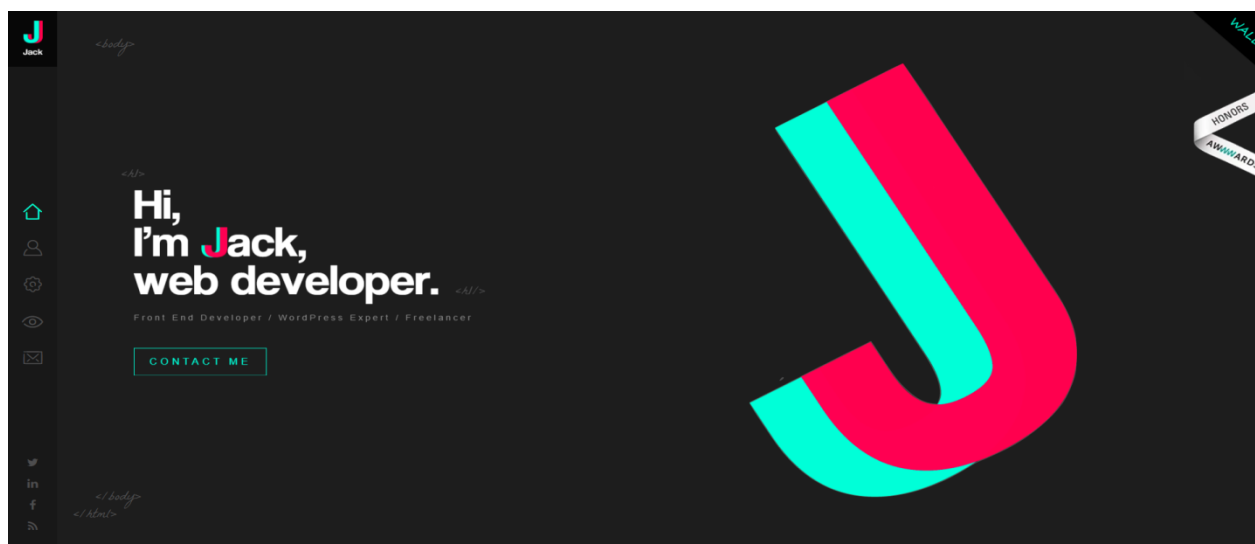The objective was to create a portfolio website with 5 web pages. The web pages were created in Sublime Text editor. Inline, external and internal css was used depending on the requirement to style the pages and give them different basic over effects. All the web pages are linked to one another and each of them have a navigation bar that allows them to go to a different page in the website. Javascript was used to two different places. One in the blog page, where it automatically changes image every 3 second and another in the contact page where it uses form validation, if any of the field are left empty then an alert box pops up showing a message indicating a field is empty, if all of the fields are filled then an alert box indicating the message has been sent pops up. The wireframe of the website was also created. It was created using Balsamiq mockups.

While creating the portfolio, different portfolio websites were reference to get an idea of what contents should be present in the portfolio and how they are laid out, how the navigation bar looks and what other link they have. Sites like w3 school, java t point were used to learn about different html attribute, javascript and css.

In the process of making this portfolio website, a deeper understanding of internet technologies and its impact, designing a website using suitable tools, applying scripting languages was developed.

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Bibliography

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Balsamiq, 2020. *Balsamiq*. [Online] Available at:
https://balsamiq.com/wireframes/desktop/docs/intro/ [Accessed January 2020].

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