

ASIA PACIFIC INSTITUTE OF INFORMATION TECHNOLOGY

Level 4

COMP40004

WEB DEVELOPMENT AND OPERATING SYSTEMS - II

Individual Assignment (3)

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Table of Content

01)List of tables.....	03
02)Introduction to the website.....	03
03)Testing results	
1. HTML Validity.....	04
2. CSS Validity.....	04
3. Accessibility using WAVE.....	05
4. Lighthouse testing.....	06
5. Responsiveness on different devices and browsers.....	06
6. Test tables for different set of user input combinations.....	07
04)GitHub link to my application.....	07
05)Conclusion.....	07

01)List of Tables

1. HTML Validity test
2. CSS Validity test
3. Lighthouse test
4. Responsive test
5. User input test

01)Introduction

I have developed a booking website for the Hikkaduwa Turtle Hatchery using HTML, CSS, and JavaScript. The website consists of four pages that facilitate the booking process. These pages include the 'Tickets' page, 'Details' page, 'Payment' page, and 'Confirmation' page. Throughout the development process, I utilized vanilla JavaScript instead of frameworks like Alpine js.

The 'Tickets' page allows users to input details such as their arrival date, the number of guests, and preferred time slots. On the 'Details' page, users can enter their personal information. The 'Payment' page handles the payment processing. Finally, the 'Confirmation' page provides users with a confirmation of their payment and booking details.

02)Tables

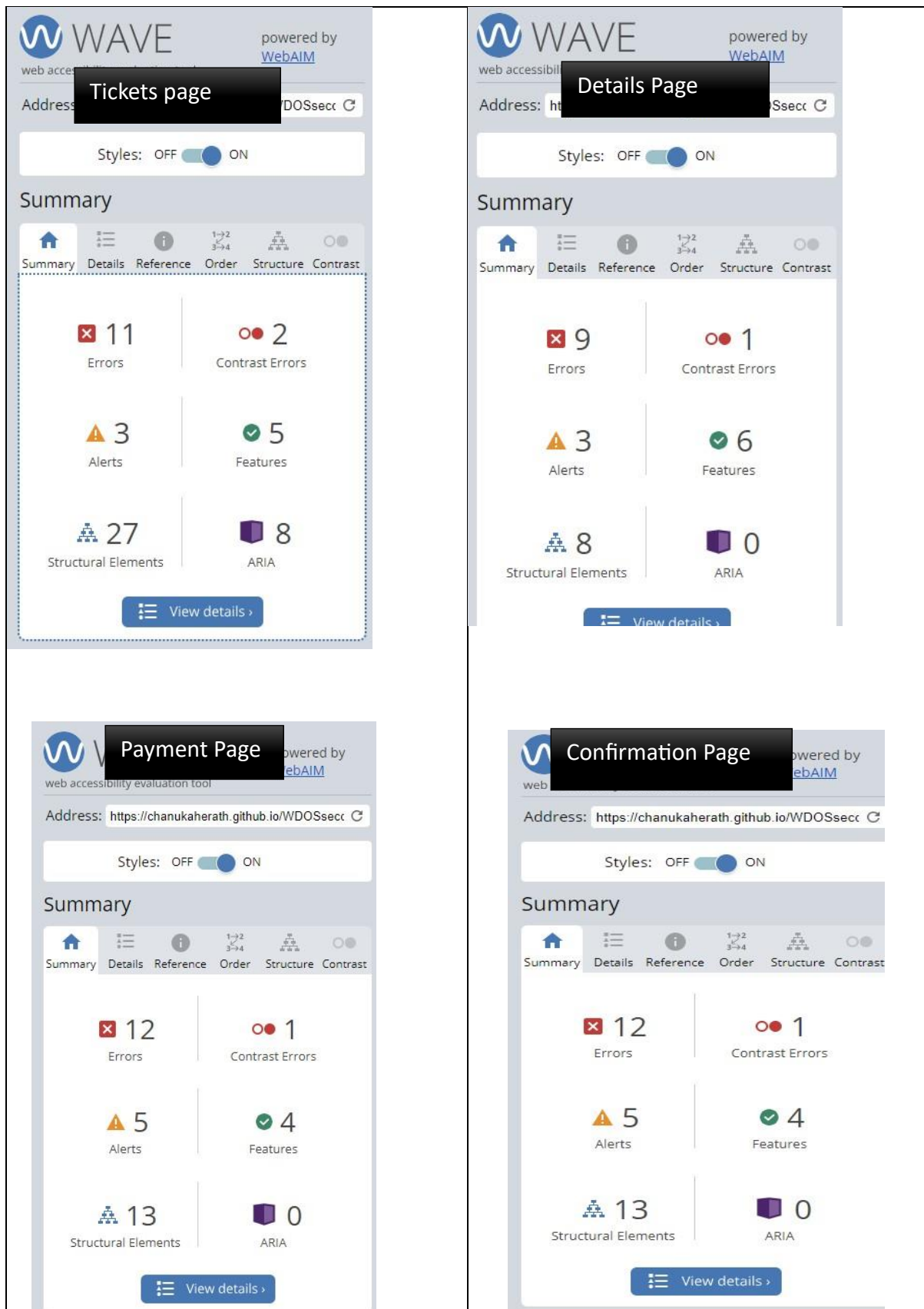
1.HTML Validity

HTML page	Validity
Tickets	13 typo errors 3 admonitions
Details	5 typo errors 2 admonitions
Payment	5 typo errors 1 admonition
Confirmation	7 typo errors 1 admonition

2. CSS Validity

CSS page	Validity
Tickets	no errors
Details	1 typo error
Payment	no errors
Confirmation	no error

03.Accessibility using Waves



04.Lighthouse Testing

Web page	Performance	Best practices	Accessibility	SEO
Tickets	89	92	74	91
Details	96	92	78	91
Payment	94	92	75	83
Confirmation	93	92	68	91

05. Responsiveness on Different Devices and Browsers

Web page	Browser	Mobile View	Laptop View
Tickets	Chrome	pass	pass
	Safari	pass	pass
Details	Chrome	pass	pass
	Safari	pass	pass
Payment	Chrome	pass	pass
	Safari	pass	pass
Confirmation	Chrome	pass	pass
	Safari	pass	pass

06.User input test

Web page	User input	Task	Condition
All pages	Navigation bar	To do the navigation between pages	pass
Tickets	Date picker	To take a date from user	pass

	Plus (+), minus(-) buttons	To input the number of guests	pass
	Continue button	Calculate the data and move to next page	pass
Details	Full name	To enter the full name(validated as a required field)	pass
	Mobile number	To enter the mobile number	pass
	Email	To enter the email(validated as a required field)	pass
	Confirm email	To confirm the entered email(validated as a required field)	pass
	Gender	To select gender	pass
	Continue with purchase button	To save above data and proceed to next page	pass
Payment	Name of the user	To enter user's name for the payment(validated as a required field)	pass

	CVC/CVV number	number of the user(validated as a required field	pass
	Expire date	User can select the date from drop down menu	pass
	Confirm button	Confirm all data and save it and move to next page	pass

04) GitHub link to my application

https://chanukaherath.github.io/WDOSsecond2cb012236.github.io/booking_page

05)Conclusion

Completing this assignment has provided me with a solid understanding of creating websites using primarily JavaScript. I have also gained insights into developing a booking page and its criteria. This project taught me how to construct a commercial website and highlighted the essential factors that need to be considered. Overall, this experience will undoubtedly benefit my future studies in pursuing a career as a web developer.