

# ***Deployment Task 3 Report***

## ***Student Details***

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***Unit Code & Name: SWE40006 – Software Deployment and Evolution***

***Semester: Semester 2, 2025***

***Due Date: 14 September 2025***

**Task Level Attempted:** Task 3.3 – High Distinction (includes 3.1 Pass, 3.2 Credit, 3.3 HD)

## 1. Introduction

This report documents the steps I followed to deploy different types of applications to Microsoft Azure using Visual Studio and Kudu. The objective of Task 3 was to successfully deploy a simple ASP.NET/C# web app and extend this with a PHP app to demonstrate multi-language deployment on Azure. Evidence of completion, including screenshots and deployment URLs, is provided.

## 2. Task 3.1 – Pass (Deploying an Existing ASP.NET App)

### Steps Taken

1. Installed **Visual Studio Community 2022** with ASP.NET and Azure workloads.
2. Created a new ASP.NET MVC project (EasyCRM.UI) with **Individual Accounts authentication**.
3. Verified the app by running it locally in Visual Studio using **Ctrl + F5**.
4. Published the project to Azure App Service using **Right-click → Publish → Azure App Service (Windows)**.
5. Configured app name, resource group, and region (**Asia**) before deployment.
6. Verified successful deployment at:
7. <https://<yourappname>.azurewebsites.net>

### Evidence

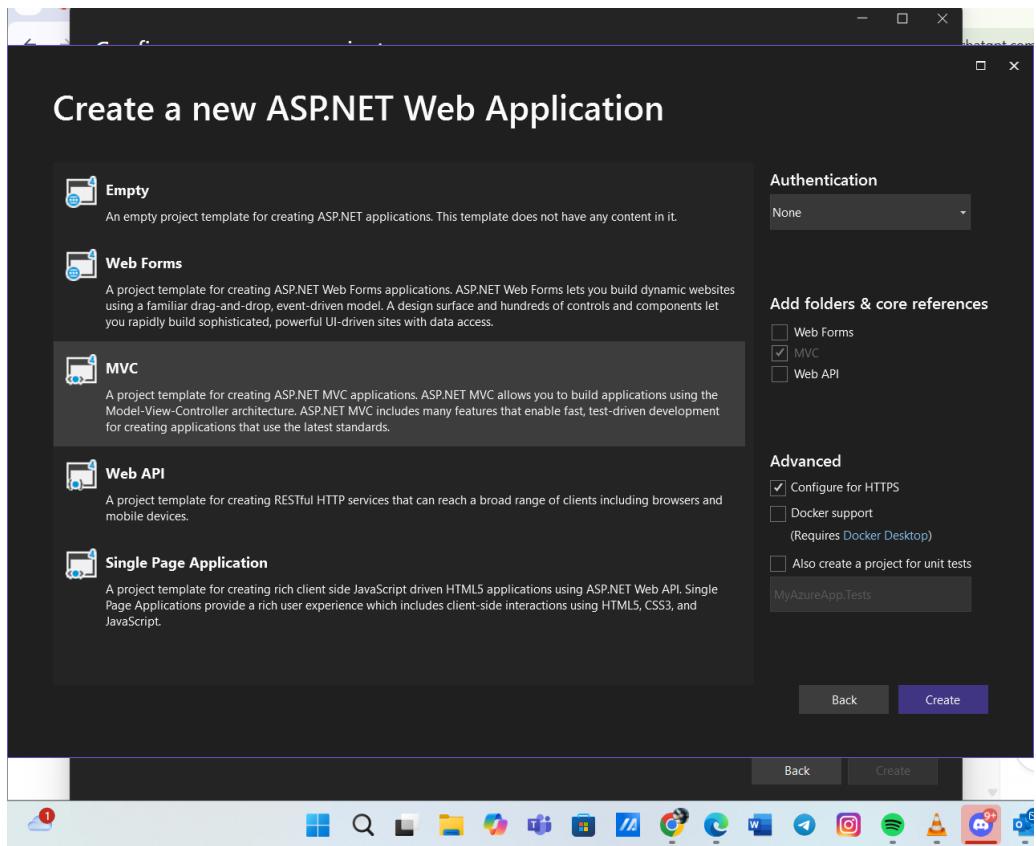
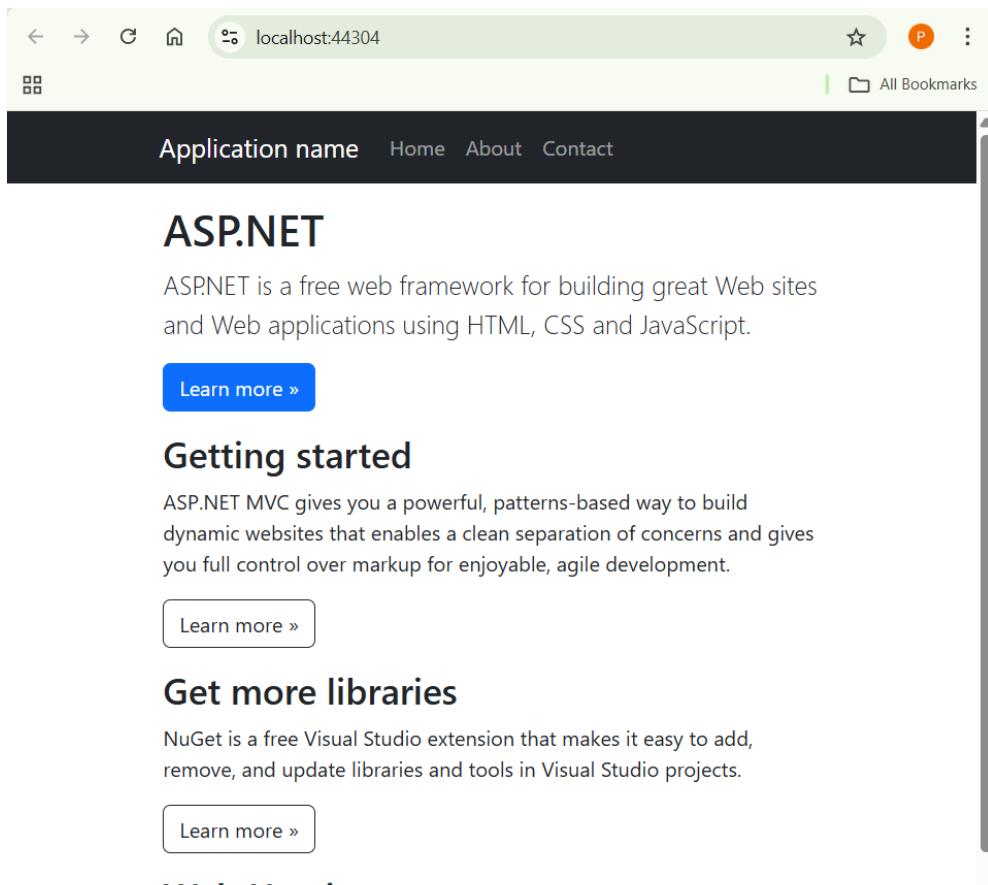
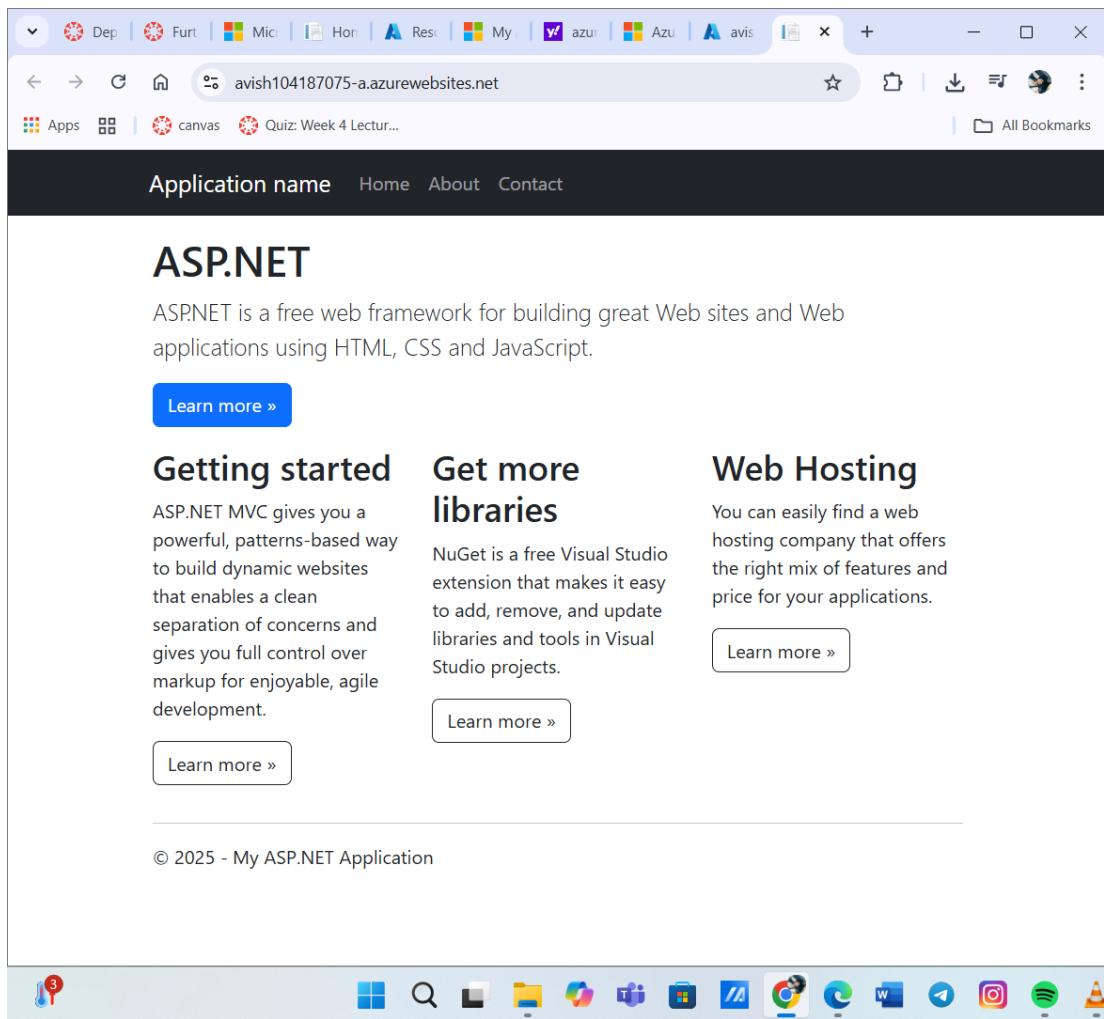


Figure 1: Running ASP.NET MVC app locally in Visual Studio.



*Figure 2: Publish profile showing successful deployment to Azure.*



*Figure 3: Live ASP.NET app running on Azure App Service.*

### Problems faced

I could not use location Australia east and could only use asia for azure for some reason

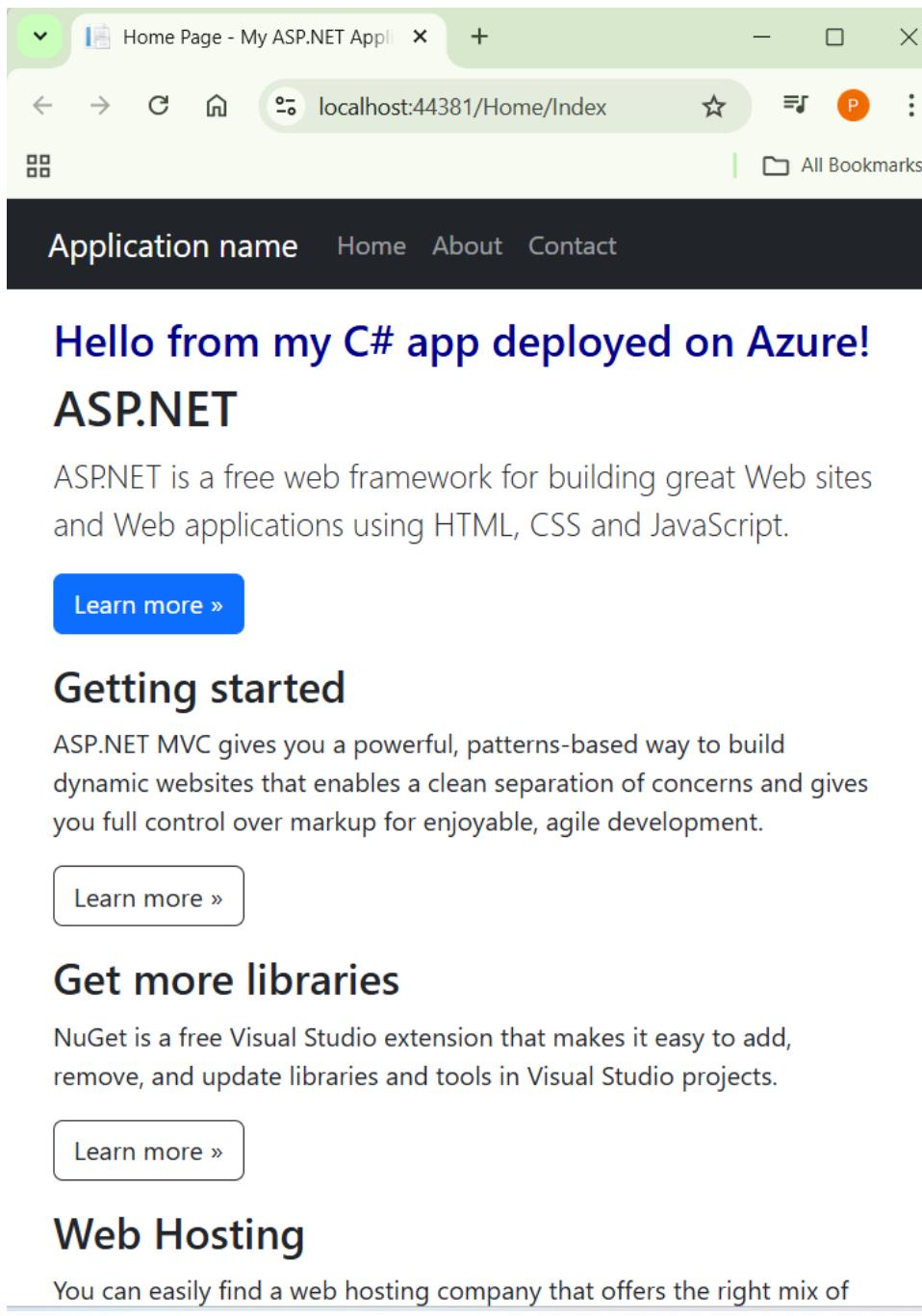
### 3. Task 3.2 – Credit (Customising, Deploying, and Deactivating the C# App)

#### Steps Taken

1. Modified **HomeController.cs** to display a custom message using `ViewBag.Message`.
2. `public ActionResult Index()`
3. `{`
4. `ViewBag.Message = "Hello from my C# app deployed on Azure!";`
5. `return View();`
6. `}`

7. Updated **Index.cshtml** to render this message above the default content.
8. `<h2 style="color:darkblue;">@ViewBag.Message</h2>`
9. Re-deployed the modified app to the same Azure App Service.
10. Verified the change live on Azure by refreshing the URL.
11. Used **Azure Portal → App Services → Stop** to deactivate the app, confirming that the URL became inaccessible.

## Evidence



The screenshot shows a web browser window with the title "Home Page - My ASP.NET Appli". The address bar displays "localhost:44381/Home/Index". The page content is as follows:

Application name Home About Contact

# Hello from my C# app deployed on Azure!

## ASP.NET

ASP.NET is a free web framework for building great Web sites and Web applications using HTML, CSS and JavaScript.

[Learn more »](#)

### Getting started

ASP.NET MVC gives you a powerful, patterns-based way to build dynamic websites that enables a clean separation of concerns and gives you full control over markup for enjoyable, agile development.

[Learn more »](#)

### Get more libraries

NuGet is a free Visual Studio extension that makes it easy to add, remove, and update libraries and tools in Visual Studio projects.

[Learn more »](#)

### Web Hosting

You can easily find a web hosting company that offers the right mix of

Figure 4: Customised ASP.NET MVC app running locally with modified message.

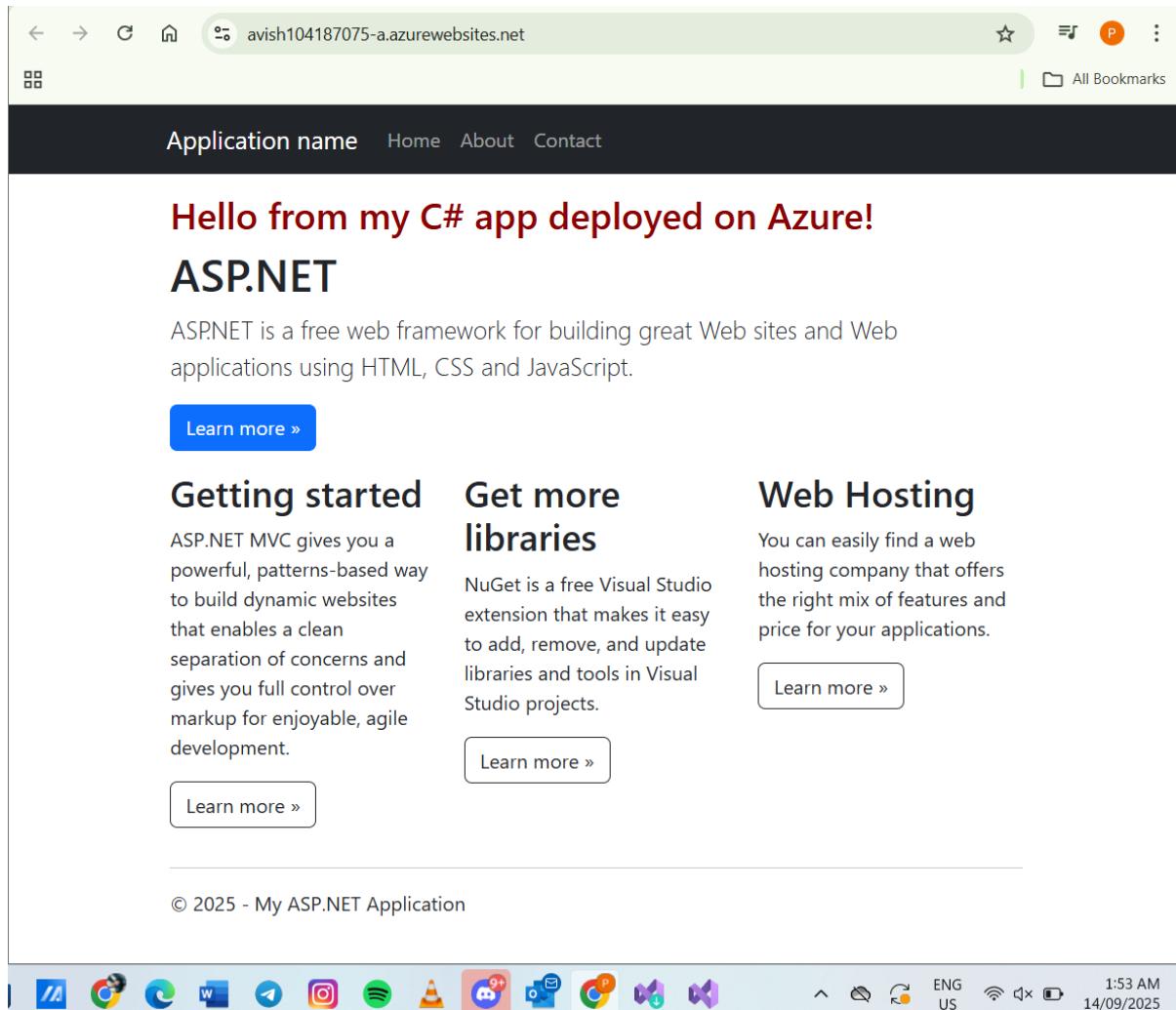


Figure 5: Updated C# app live on Azure App Service.

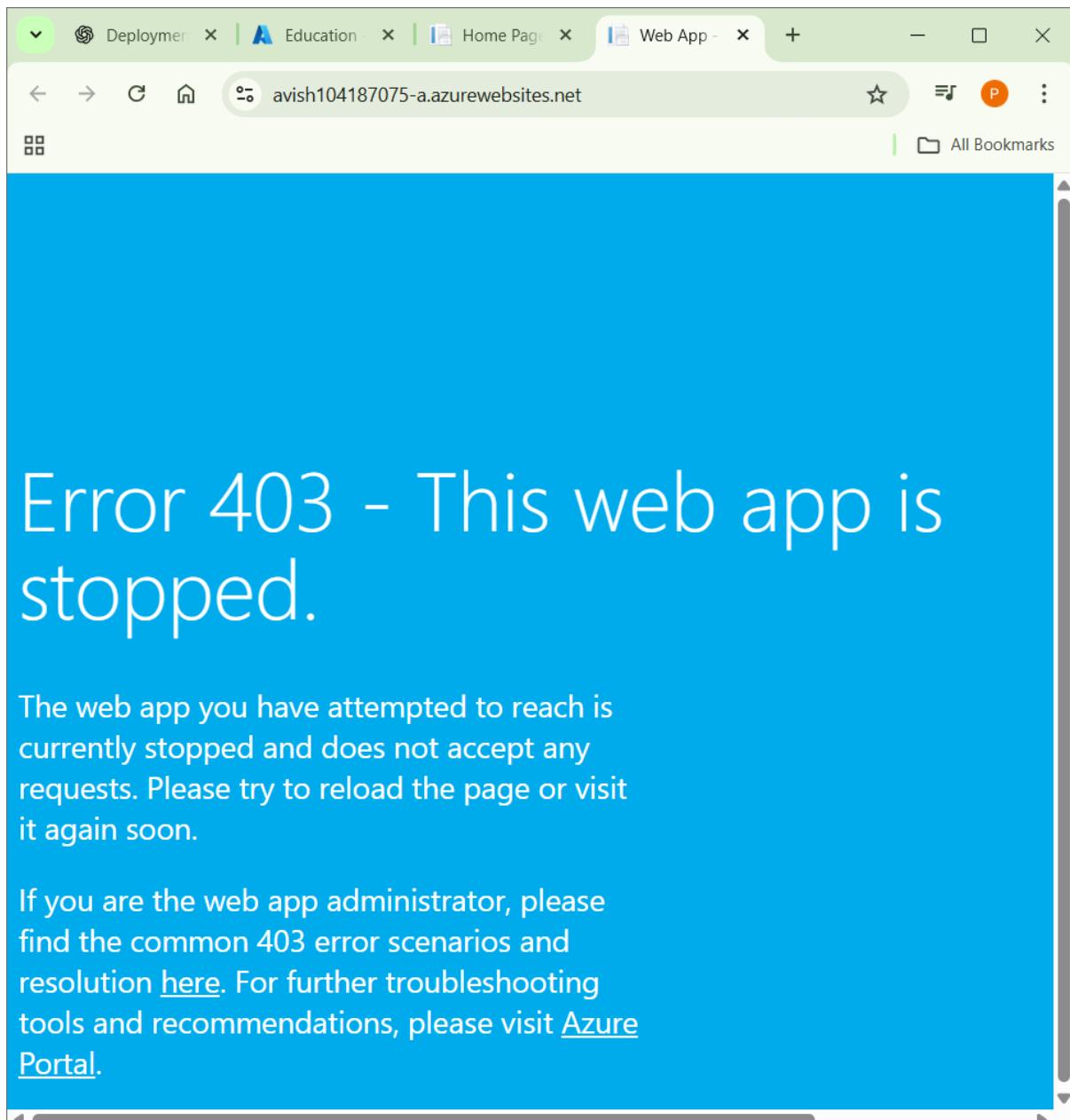


Figure 6: Azure portal showing app deactivated (Stopped status).

#### 4. Task 3.3 – High Distinction (Deploying a PHP App via Kudu)

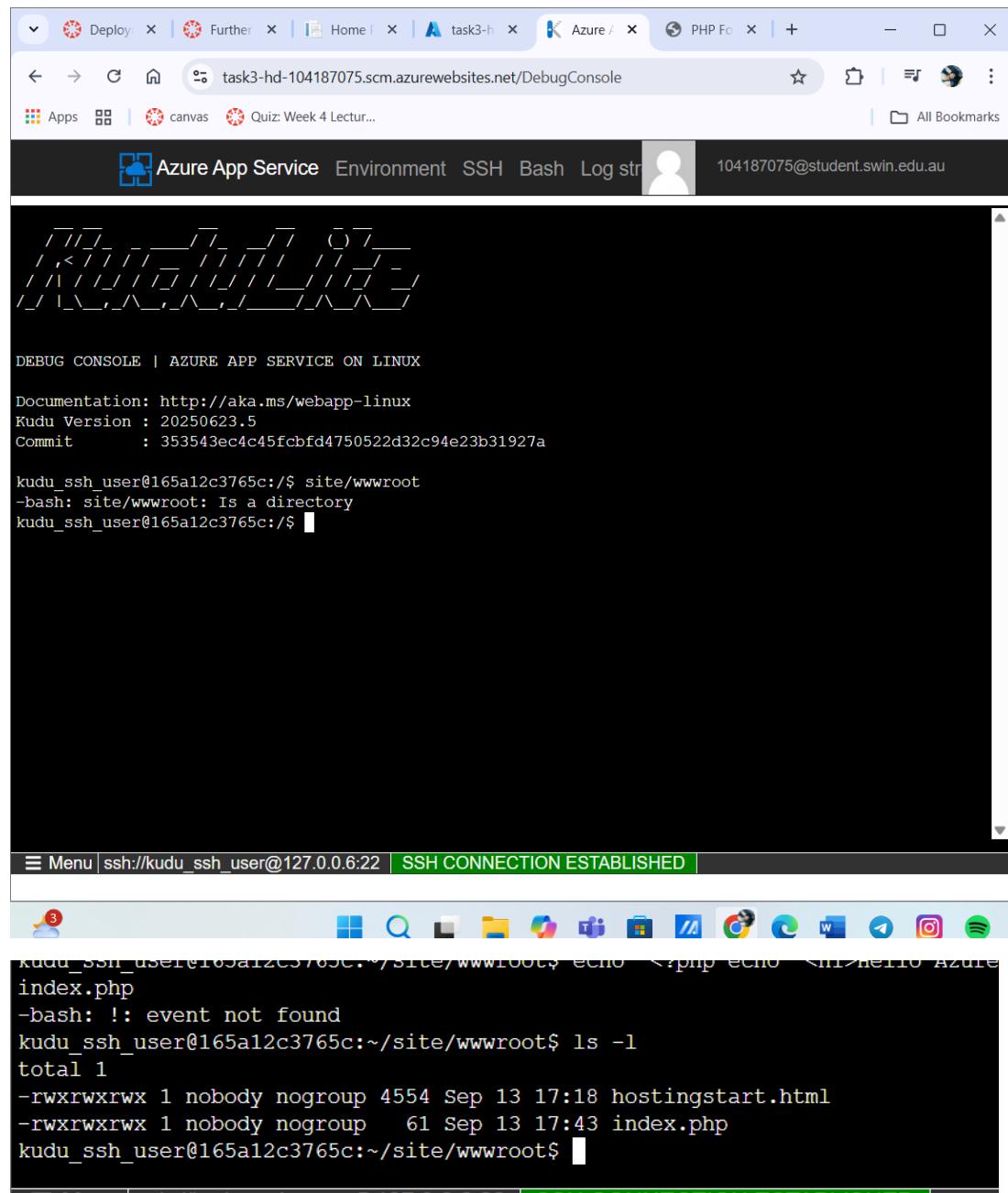
##### Steps Taken

1. Created a new Azure Web App in the **Asia region** with **Runtime Stack: PHP 8.x**.
2. Opened **Kudu Bash Console** from Azure Portal (Advanced Tools → Go → Debug Console → Bash).
3. Navigated to the /site/wwwroot directory.
4. cd /home/site/wwwroot
5. Used an inline command to create index.php directly on the server:

6. echo "<?php echo '<h1>Hello Azure from PHP!</h1>'; ?>" > index.php
7. Confirmed the file was created:
8. ls -l
9. Opened the app URL in a browser:
10. <https://task3-hd-104187075.azurewebsites.net>

→ Displayed “Hello Azure from PHP!” successfully.

## Evidence



The screenshot shows a terminal window titled "Kudu Bash" with the command prompt "kudu\_ssh\_user@165a12c3765c:~/site/wwwroot\$". The user has run the command "echo "<?php echo '<h1>Hello Azure from PHP!</h1>'; ?>" > index.php" to create a file named index.php. The file is then listed with "ls -l", showing it has 4554 bytes and was modified on Sep 13 at 17:18. The terminal also displays the message "SSH CONNECTION ESTABLISHED".

```

index.php
total 1
-rwxrwxrwx 1 nobody nogroup 4554 Sep 13 17:18 hostingstart.html
-rwxrwxrwx 1 nobody nogroup    61 Sep 13 17:43 index.php
kudu_ssh_user@165a12c3765c:~/site/wwwroot$ 
```

 *Figure 7: Kudu Bash console showing creation of index.php in /site/wwwroot.*

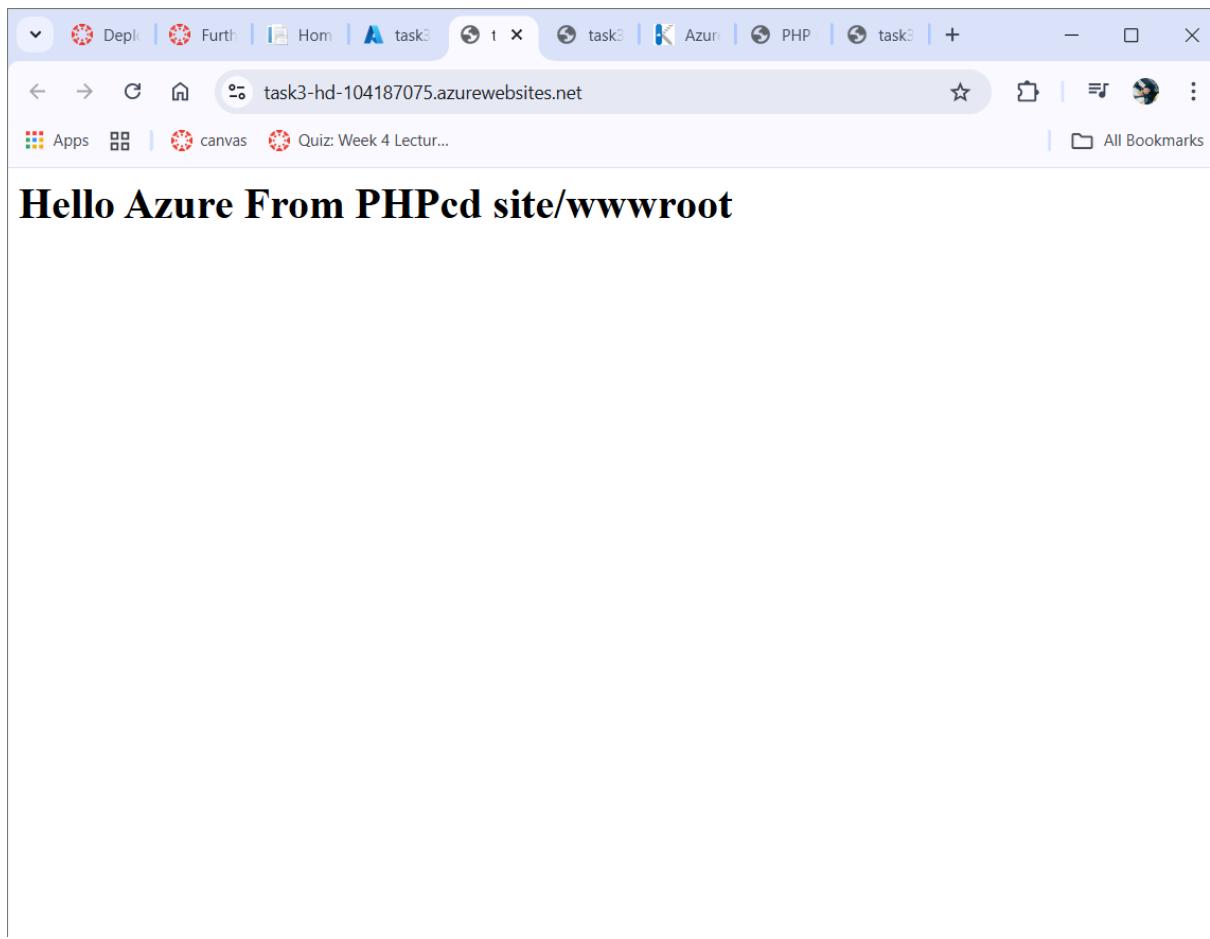


Figure 8: Browser output of the PHP app running live on Azure.

## 5. Error Analysis

- While working with Azure, I initially expected to find a **Zip Deploy option** in Deployment Center, but it was not available.
- To resolve this, I switched to **Kudu Bash** and used shell commands to create and manage files directly in /site/wwwroot.
- This approach avoided issues with file uploads and confirmed that even minimal command-line deployment works.

## 6. Conclusion

This task gave me practical experience deploying both **ASP.NET MVC** and **PHP** applications to Azure App Service. I learned how to configure, publish, customise, and deactivate apps through Visual Studio, as well as how to deploy and manage files via Kudu Bash commands. Completing Task 3.3 with command-line deployment built my confidence in handling different environments and troubleshooting missing deployment options in Azure.

The final outcome was two functioning applications hosted on Azure:

- ASP.NET MVC app (<yourappname>.azurewebsites.net)
- PHP app (<https://task3-hd-104187075.azurewebsites.net>)

Both deployments demonstrate the skills required for High Distinction