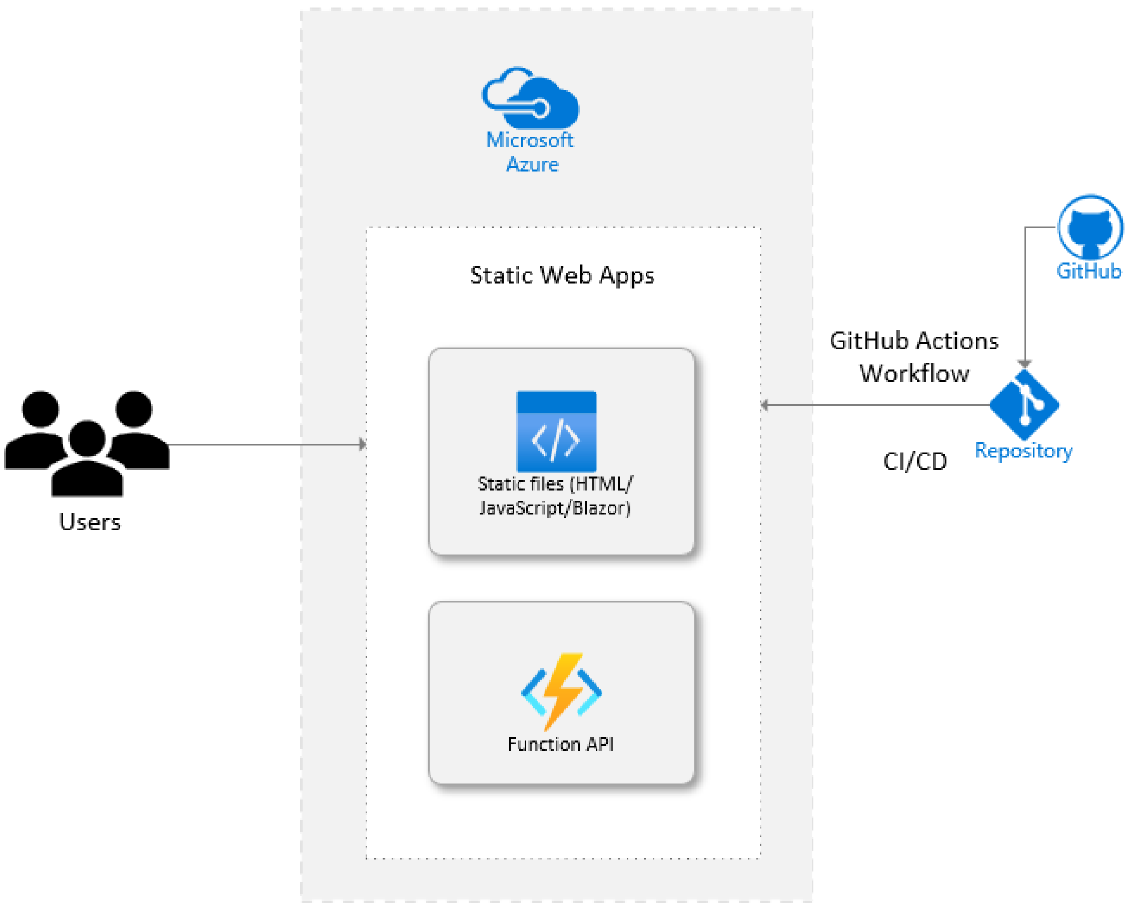
Using **JavaScript**, **HTML, CSS, Bootstrap** created “E- Fashion Store” Website Front-End.

Problem Statement :

Making the E-Commerce website front-end part that have Fashion collection, and deploying in Azure using Azure Web Services.

Solution :



Using Microsoft Azure Web Services, we can deploy the static website with its content into cloud.

My website consists of a main web page and other pages for all categories of fashion. The website code includes, More of HTML and CSS part with Bootstrap, Javascript functionalities included.

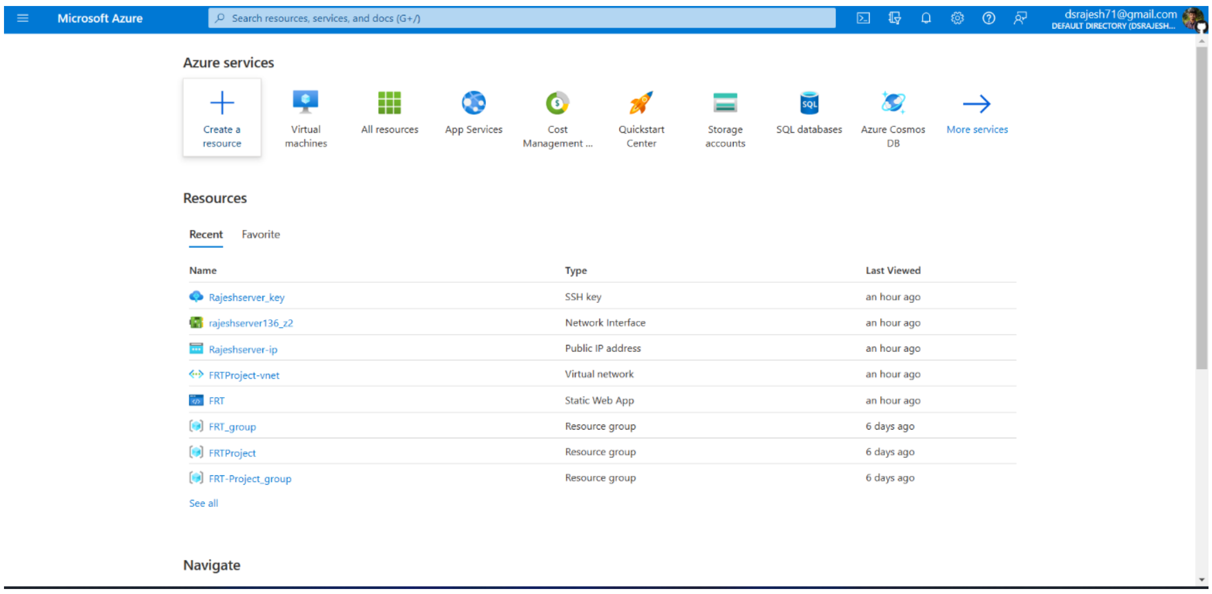
The whole website's project code can be accessed from here below link:

[GitHub Code]

- ➢ For working on your side, you can download the zip from the GitHub Repository Link provided above.
- ➢ Complete all the code for the project and upload in your GitHub Repo to store the code and remote access it.

- ➢ Now, to deploy it in to the Microsoft Azure, Follow the steps below :

- ➢ First you have to have the Azure Account for using the Azure.
- ➢ If not have, create your account with your credentials.
- ➢ Go to https://portal.azure.com/ for creating your account.
- ➢ Claim your student pack offer using your Student mail ID or from GitHub Student Developer Pack. Or even you can claim a free trail version with $200 credit.
- ➢ After creating your account login to the Azure with your account in Azure Portal, login now if you already have one.
- ➢ In the home page, under Azure Services, click on the "Create a Resource" option.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Azure services

Create a resource | Virtual machines | All resources | App Services | Cost Management ... | Quickstart Center | Storage accounts | SQL databases | Azure Cosmos DB | More services

Resources

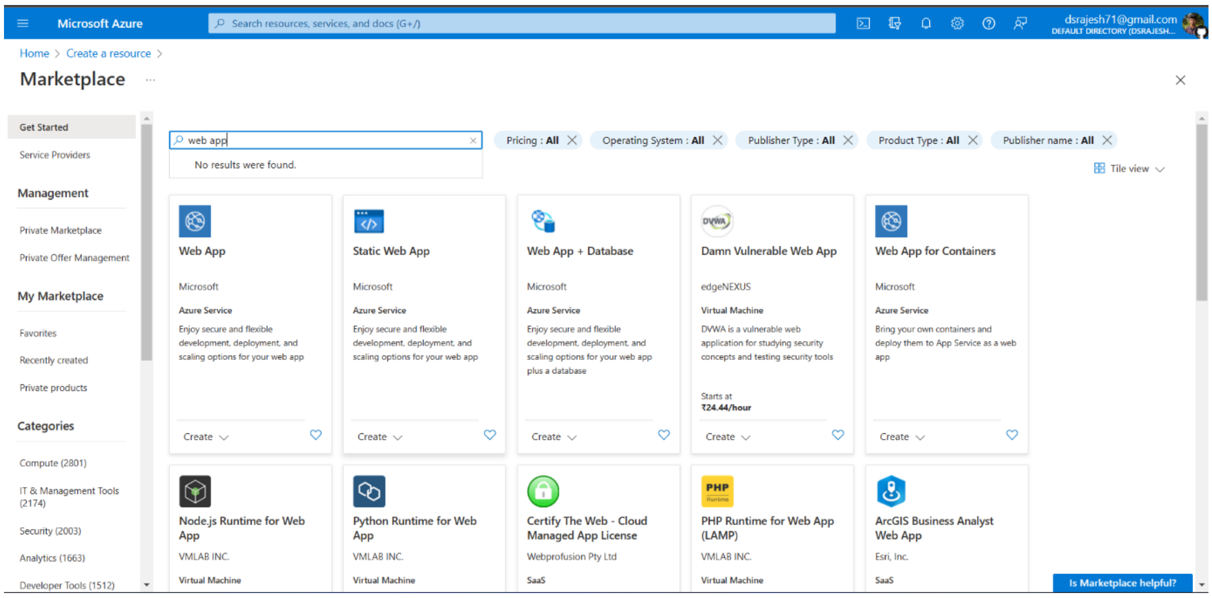
Recent | Favorite

Name	Type	Last Viewed
Rajeshserver_key	SSH key	an hour ago
rajeshserver136_z2	Network Interface	an hour ago
Rajeshserver-ip	Public IP address	an hour ago
FRTProject-vnet	Virtual network	an hour ago
FRT	Static Web App	an hour ago
FRT_group	Resource group	6 days ago
FRTProject	Resource group	6 days ago
FRT-Project_group	Resource group	6 days ago

See all

Navigate

➢ After going to the create resource option, now search for “Static Web App” in the search bar and click on the **Static Web App**.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Home > Create a resource >

Marketplace

Get Started
Service Providers
Management
Private Marketplace
Private Offer Management
My Marketplace
Favorites
Recently created
Private products
Categories
Compute (2801)
IT & Management Tools (2174)
Security (2003)
Analytics (1663)
Developer Tools (1512)

web app
No results were found.

Pricing : **All** | Operating System : **All** | Publisher Type : **All** | Product Type : **All** | Publisher name : **All**

Tile view

Web App — Microsoft — Azure Service — Enjoy secure and flexible development, deployment, and scaling options for your web app — Create

Static Web App — Microsoft — Azure Service — Enjoy secure and flexible development, deployment, and scaling options for your web app — Create

Web App + Database — Microsoft — Azure Service — Enjoy secure and flexible development, deployment, and scaling options for your web app plus a database — Create

Damn Vulnerable Web App — edgeNEXUS — Virtual Machine — DVWA is a vulnerable web application for studying security concepts and testing security tools — Starts at ₹24.44/hour — Create

Web App for Containers — Microsoft — Azure Service — Bring your own containers and deploy them to App Service as a web app — Create

Node.js Runtime for Web App — VMLAB INC. — Virtual Machine

Python Runtime for Web App — VMLAB INC. — Virtual Machine

Certify The Web - Cloud Managed App License — Webprofusion Pty Ltd — SaaS

PHP Runtime for Web App (LAMP) — VMLAB INC. — Virtual Machine

ArcGIS Business Analyst Web App — Esri, Inc. — SaaS

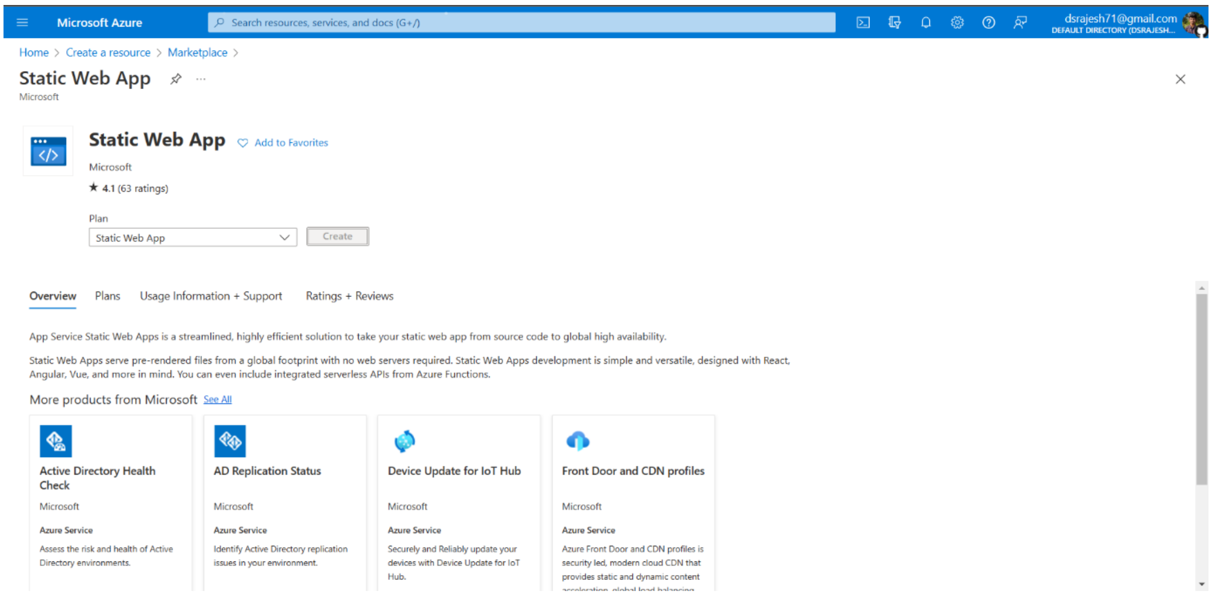
Is Marketplace helpful?

➢ Now go to the Static Web App resource and click on **Create** Button.

➢ An HTTP-based service called Azure App Service is used to host mobile back ends, REST APIs, and online apps. It doesn't matter what language you prefer to program in—.NET,.NET

Core, Java, Ruby, Node.js, PHP, or Python—you may use it. Both Windows and Linux-based platforms provide the smooth scaling and operation of applications. App Service enhances your application's functionality by bringing Microsoft Azure's security, load balancing, auto scaling, and automated administration features.

https://azure.microsoft.com/en-us/products/app-service/web/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Home > Create a resource > Marketplace >
Add to Favorites
Create
Overview
Plans
Usage Information + Support
Ratings + Reviews
See All

Static Web App

Microsoft

Static Web App

Microsoft

★ 4.1 (63 ratings)

Plan: Static Web App

App Service Static Web Apps is a streamlined, highly efficient solution to take your static web app from source code to global high availability.

Static Web Apps serve pre-rendered files from a global footprint with no web servers required. Static Web Apps development is simple and versatile, designed with React, Angular, Vue, and more in mind. You can even include integrated serverless APIs from Azure Functions.

More products from Microsoft

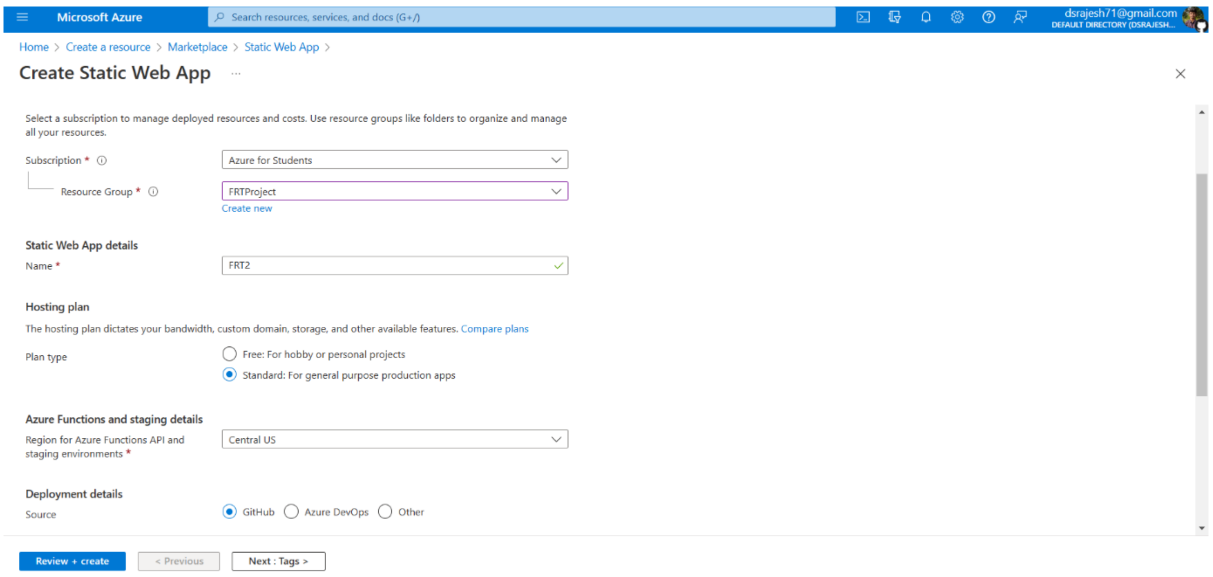
Active Directory Health Check
Microsoft
Azure Service
Assess the risk and health of Active Directory environments.

AD Replication Status
Microsoft
Azure Service
Identify Active Directory replication issues in your environment.

Device Update for IoT Hub
Microsoft
Azure Service
Securely and Reliably update your devices with Device Update for IoT Hub.

Front Door and CDN profiles
Microsoft
Azure Service
Azure Front Door and CDN profiles is security led, modern cloud CDN that provides static and dynamic content

- Now enter your required details for the Resource in the fields it mentioned for creating your Static Web App resource.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Home > Create a resource > Marketplace > Static Web App >

Create Static Web App

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *	Azure for Students
Resource Group *	FRTProject
	Create new

Static Web App details

Name *	FRT2

Hosting plan

The hosting plan dictates your bandwidth, custom domain, storage, and other available features. Compare plans

Plan type: Free: For hobby or personal projects [✓ Standard: For general purpose production apps]

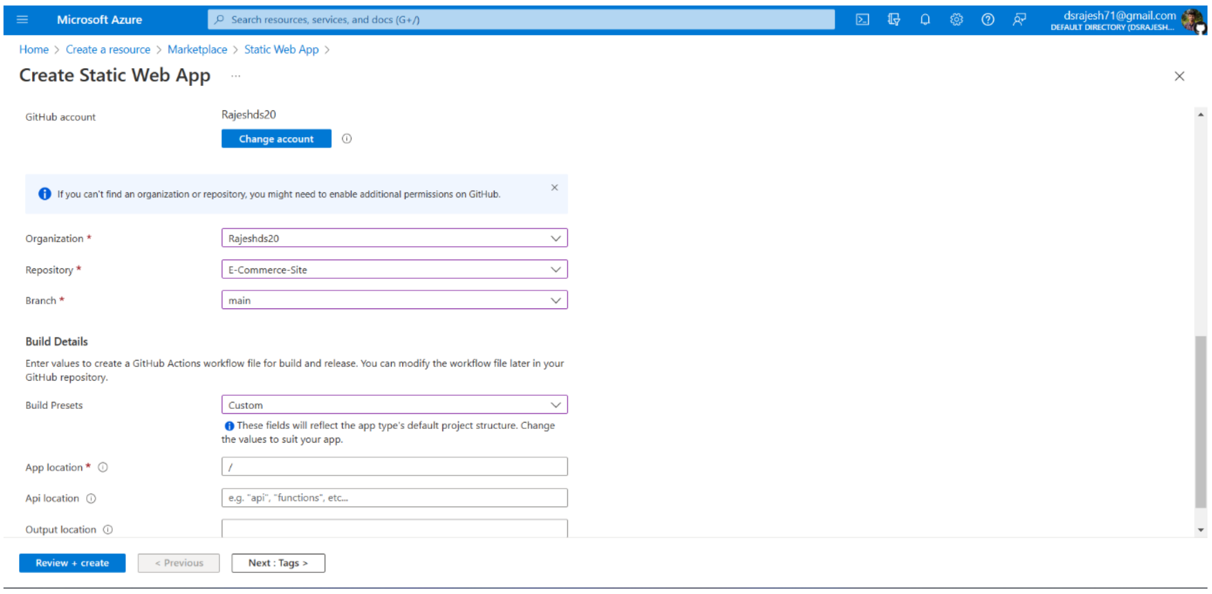
Azure Functions and staging details

Region for Azure Functions API and staging environments *	Central US

Deployment details

Source: [✓ GitHub] Azure DevOps Other

- Enter the details of the resource like group, type, region and deployment source.
- In my case I used the GitHub as my source where I gave my Authentication to GitHub to access my data and chose the required repository.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Home > Create a resource > Marketplace > Static Web App >

Create Static Web App

GitHub account	Rajeshds20

If you can't find an organization or repository, you might need to enable additional permissions on GitHub.

Organization *	Rajeshds20
Repository *	E-Commerce-Site
Branch *	main

Build Details

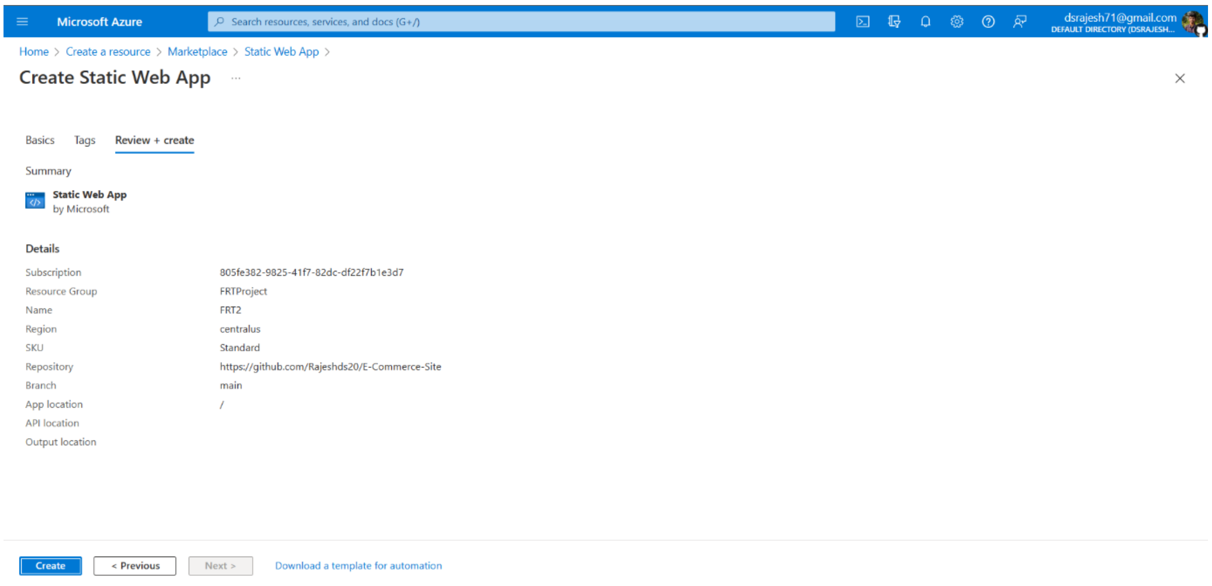
Enter values to create a GitHub Actions workflow file for build and release. You can modify the workflow file later in your GitHub repository.

Build Presets	Custom

These fields will reflect the app type's default project structure. Change the values to suit your app.

App location *	/
Api location	e.g. "api", "functions", etc...
Output location	

➢ After entering the details of your repo and branch from your GitHub account, Click on **Review + Create** button.



Home > Create a resource > Marketplace > Static Web App >

Create Static Web App

Basics Tags Review + create

Summary

Static Web App
by Microsoft

Details

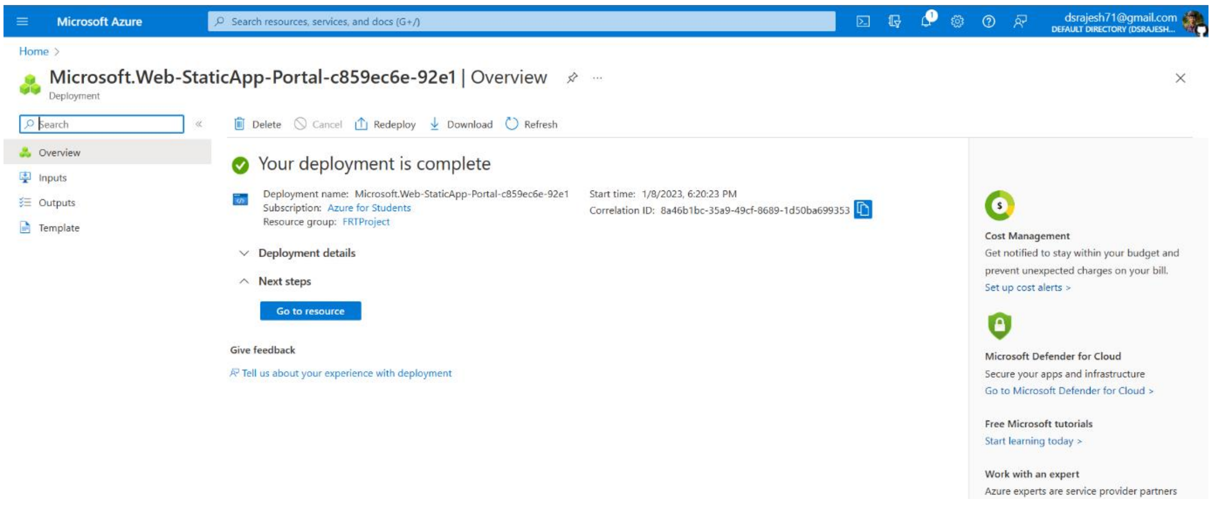
Subscription	805fe382-9825-41f7-82dc-df22f7b1e3d7
Resource Group	FRTProject
Name	FRT2
Region	centralus
SKU	Standard
Repository	https://github.com/Rajeshds20/E-Commerce-Site
Branch	main
App location	/
API location	
Output location	

Create < Previous Next > Download a template for automation

➢ Now, check the details and click on **Create** button. Now wait for a while to create your resource.

➢ After the resource is created, you will get the resource as shown.

➢ Click on **Go to Resource**.



Home >

Microsoft.Web-StaticApp-Portal-c859ec6e-92e1 | Overview
Deployment

Delete Cancel Redeploy Download Refresh

Overview
Inputs
Outputs
Template

Your deployment is complete

Deployment name: Microsoft.Web-StaticApp-Portal-c859ec6e-92e1
Subscription: Azure for Students
Resource group: FRTProject

Start time: 1/8/2023, 6:20:23 PM
Correlation ID: 8a46b1bc-35a9-49cf-8689-1d50ba699353

Deployment details

Next steps

Go to resource

Give feedback

Tell us about your experience with deployment

Cost Management
Get notified to stay within your budget and prevent unexpected charges on your bill.
Set up cost alerts >

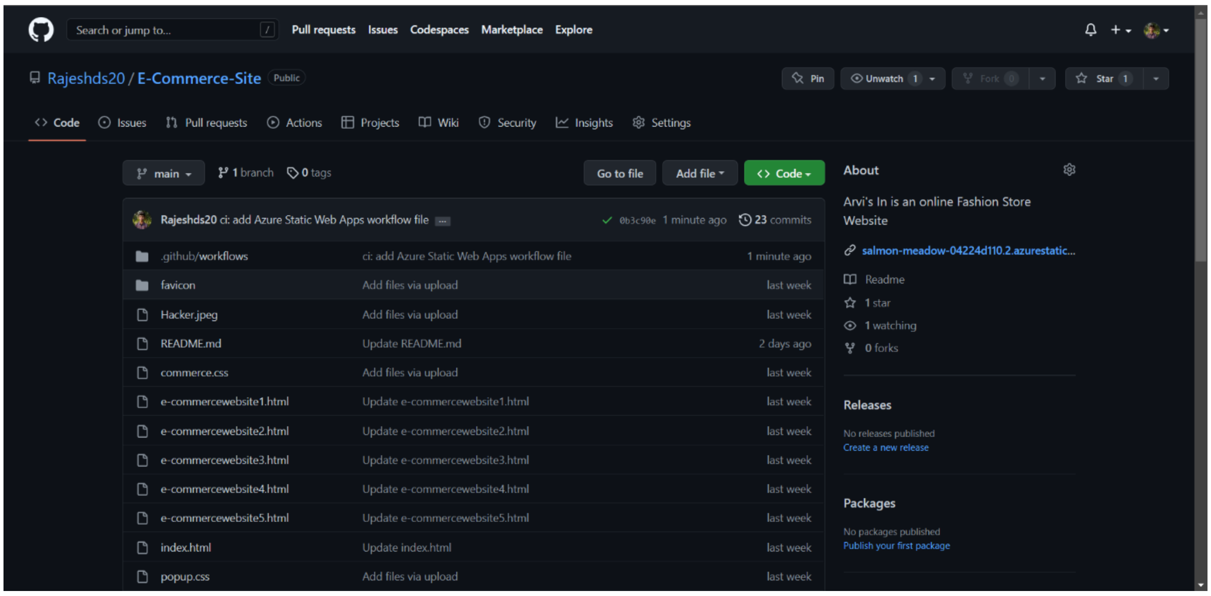
Microsoft Defender for Cloud
Secure your apps and infrastructure
Go to Microsoft Defender for Cloud >

Free Microsoft tutorials
Start learning today >

Work with an expert
Azure experts are service provider partners

➢ Next, click on the **URL** it specified in the resource details.

- ➢ The website has to be deployed in that page, if not it shows error while fetching the data from the source.
- ➢ If that happens, go to your GitHub account and in the repository, in **Actions**, click on the azure work flow run and approve it.



Rajeshds20 / E-Commerce-Site Public

main · 1 branch · 0 tags

Rajeshds20 ci: add Azure Static Web Apps workflow file · 0b3c90e 1 minute ago · 23 commits

.github/workflows	ci: add Azure Static Web Apps workflow file	1 minute ago
favicon	Add files via upload	last week
Hacker.jpeg	Add files via upload	last week
README.md	Update README.md	2 days ago
commerce.css	Add files via upload	last week
e-commercewebsite1.html	Update e-commercewebsite1.html	last week
e-commercewebsite2.html	Update e-commercewebsite2.html	last week
e-commercewebsite3.html	Update e-commercewebsite3.html	last week
e-commercewebsite4.html	Update e-commercewebsite4.html	last week
e-commercewebsite5.html	Update e-commercewebsite5.html	last week
index.html	Update index.html	last week
popup.css	Add files via upload	last week

About

Arvi's In is an online Fashion Store Website

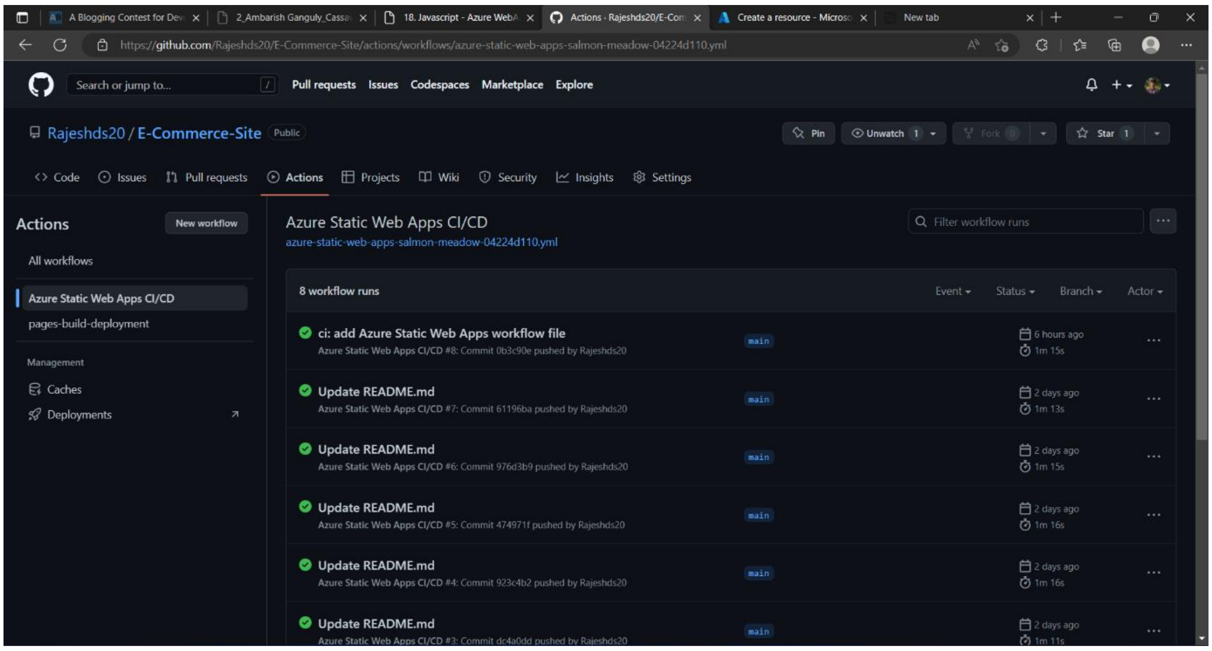
salmon-meadow-04224d110.2.azurestatic...

Readme · 1 star · 1 watching · 0 forks

Releases: No releases published · Create a new release

Packages: No packages published · Publish your first package

- ➢ Now the data will be automatically fetched into the website URL it fetched.



https://github.com/Rajeshds20/E-Commerce-Site/actions/workflows/azure-static-web-apps-salmon-meadow-04224d110.yml

Rajeshds20 / E-Commerce-Site Public

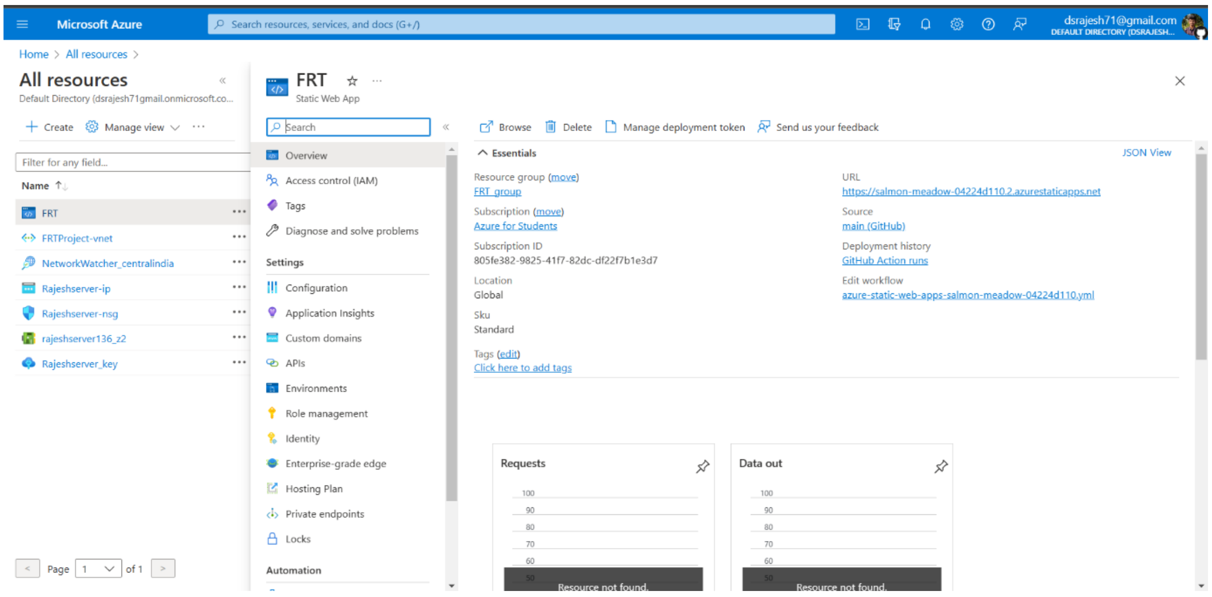
Actions · All workflows · Azure Static Web Apps CI/CD · pages-build-deployment · Management · Caches · Deployments

Azure Static Web Apps CI/CD
azure-static-web-apps-salmon-meadow-04224d110.yml

8 workflow runs

ci: add Azure Static Web Apps workflow file	Azure Static Web Apps CI/CD #8: Commit 0b3c90e pushed by Rajeshds20	main	6 hours ago · 1m 15s
Update README.md	Azure Static Web Apps CI/CD #7: Commit 61196ba pushed by Rajeshds20	main	2 days ago · 1m 13s
Update README.md	Azure Static Web Apps CI/CD #6: Commit 976d3b9 pushed by Rajeshds20	main	2 days ago · 1m 15s
Update README.md	Azure Static Web Apps CI/CD #5: Commit 474971f pushed by Rajeshds20	main	2 days ago · 1m 16s
Update README.md	Azure Static Web Apps CI/CD #4: Commit 923c4b2 pushed by Rajeshds20	main	2 days ago · 1m 16s
Update README.md	Azure Static Web Apps CI/CD #3: Commit dc4a0dd pushed by Rajeshds20	main	2 days ago · 1m 11s

➢ If you own a custom domain address, you can also enter your domain and its credentials to directly deploy them into your domain site.



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Home > All resources >

All resources
Default Directory (dsrajesh71gmail.onmicrosoft.co...

Create | Manage view

Filter for any field...

Name ↑↓

- FRT
- FRTProject-vnet
- NetworkWatcher_centralindia
- Rajeshserver-ip
- Rajeshserver-nsg
- rajeshserver136_z2
- Rajeshserver_key

Page 1 of 1

FRT
Static Web App

Search

- Overview
- Access control (IAM)
- Tags
- Diagnose and solve problems

Settings

- Configuration
- Application Insights
- Custom domains
- APIs
- Environments
- Role management
- Identity
- Enterprise-grade edge
- Hosting Plan
- Private endpoints
- Locks

Automation

Browse | Delete | Manage deployment token | Send us your feedback

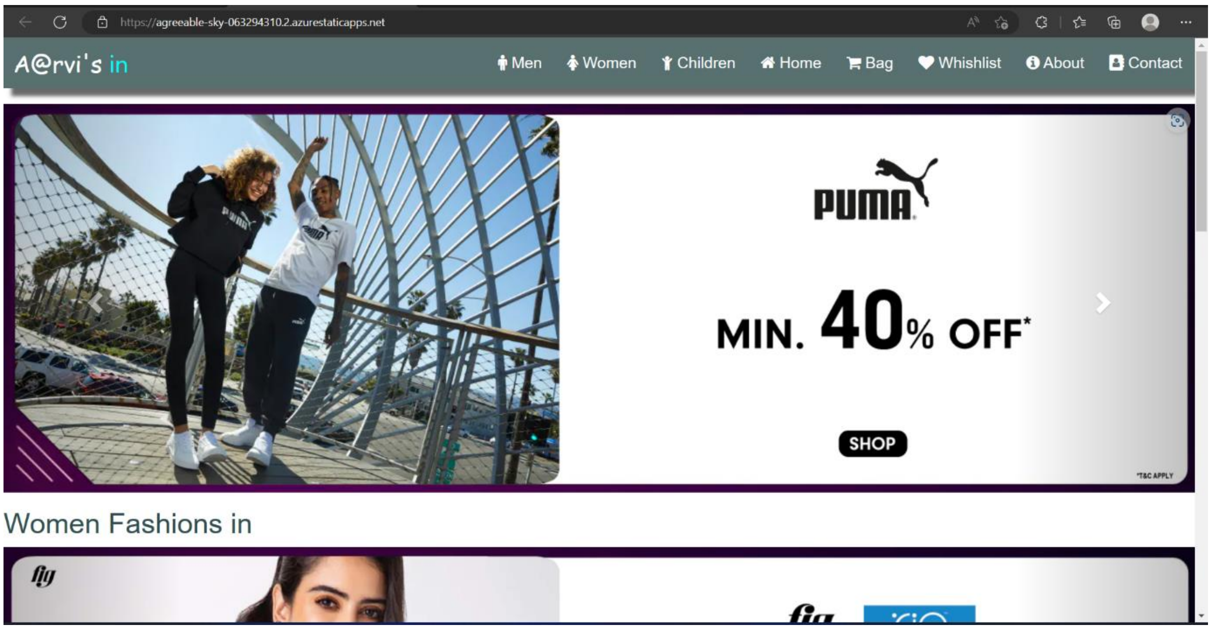
Essentials | JSON View

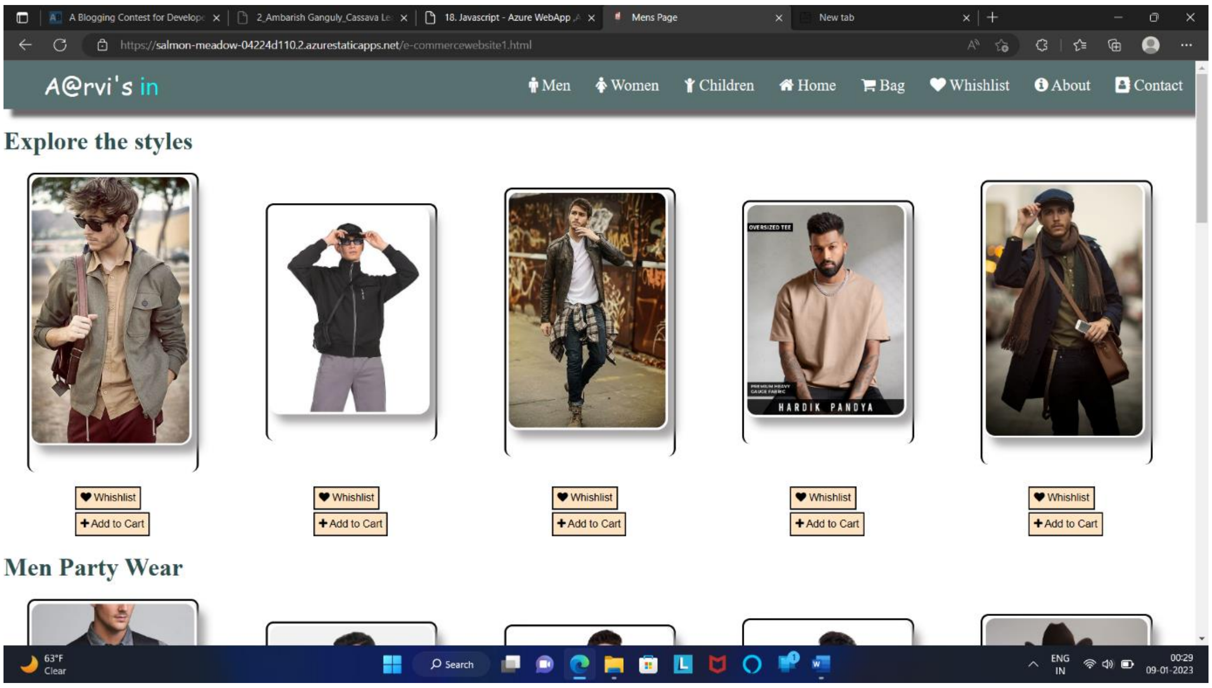
Resource group (move)	URL
FRT_group	https://salmon-meadow-04224d110.2.azurestaticapps.net
Subscription (move)	Source
Azure for Students	main (GitHub)
Subscription ID	Deployment history
805fe382-9825-41f7-82dc-df22f7b1e3d7	GitHub Action runs
Location	Edit workflow
Global	azure-static-web-apps-salmon-meadow-04224d110.yml
Sku	
Standard	
Tags (edit)	
Click here to add tags	

Requests
Resource not found.

Data out
Resource not found.

➢ On going to the resource dashboard, click on the link to view





Challenges Faced:

- First challenge I face was the design and framework for the web app.
- Deploying web-app
- GitHub build failure issues
- Automated Testing
- Security constraints

Business Benefits:

Implementation of azure service able to boost deployment speed, meet the requirements and cut the operating cost to great extent. Integrating database with the azure service makes application more flexible and faster to communicate with database