

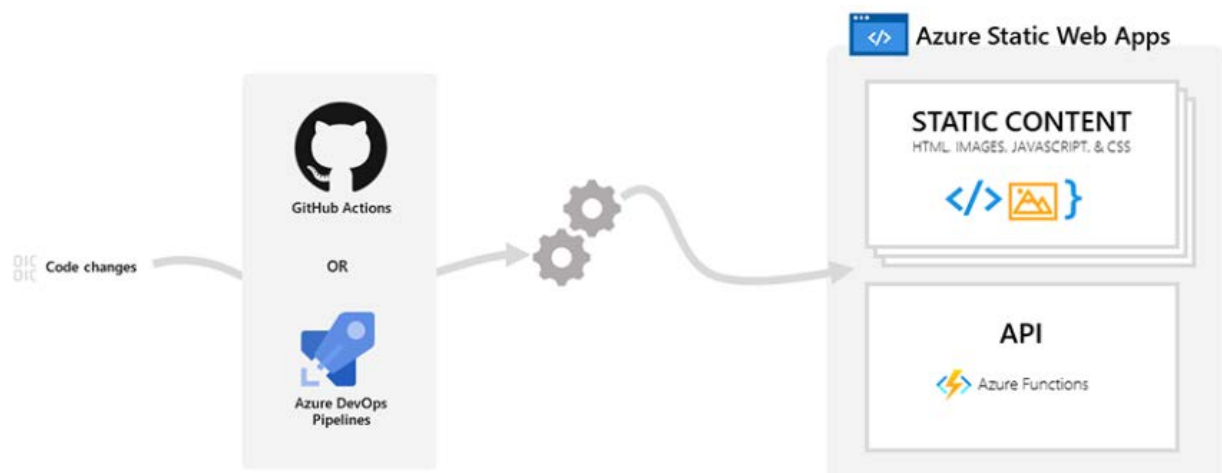
Using JavaScript developed Fashion-Up Website (Azure Static Web Apps)

Problem statement – In the modern era of Fashion, everyone are curious and fascinated about fashion but not all are exposed to it (especially the rural people) .

Nowadays, even fashion style play a great role in all of our day-to-day life. From attending a marriage ceremony to attending a job interview we all have different dresses to wear and got different styles i.e., informal and formal.

India is one of the leading and developing countries of the world but still many people especially from rural areas have not got the right exposure of the fashion sense due to expensive clothing's and lack of local stores in their areas.

Solution - We can solve many of these problems very easily through the Fashion-Up - Dashboard. Using Microsoft Azure Static web apps.



The Fashion-Up website is a place for everyone where people can have the tailoring service online in a very genuine rate from the expert Tailors and get those clothes delivered at their doorstep on or before the time of delivery.

Let's look into technical details and the Implementation of the solution:

You need the following software/ Azure Account, please find details below:-

Azure Account:- get an azure account by clicking on the following link

<https://azure.microsoft.com/en-us/free/>

There is free credit for students and 200 USD credit if you want to get started with Azure

<https://azure.microsoft.com/en-us/free/students/>

Visual Studio 2019 Community

<https://visualstudio.microsoft.com/downloads/>

The community edition is free for students and open-source contributors for non-commercial use.

Visual Studio Code (Optional if you have Visual Studio 2019 for Azure Function Development)

<https://code.visualstudio.com/downloads>

Introduction to Azure Web Static Apps

Azure Static Web Apps helps to solve the problems from source code to global availability.

At the time of building any app it automatically builds and host it from GitHub.

Static web apps are commonly built using libraries and frameworks like Angular, React, Svelte, or Vue. These apps include HTML, CSS, JavaScript, and image assets that make up the application. When using a traditional web server architecture, these files are served from a single server alongside any required API endpoints.

With Azure Static Web Apps, static assets are separated from a traditional web server and are instead served from points globally distributed around the world. This distribution makes serving files much faster as files are physically closer to users.

When you create an Azure Static Web Apps resource, Azure sets up a GitHub Actions or Azure DevOps workflow in the app's source code repository. The workflow monitors a branch of your choice. Every time you push commits or create pull requests into the watched branch, the workflow automatically builds and deploys your app and its API to Azure.

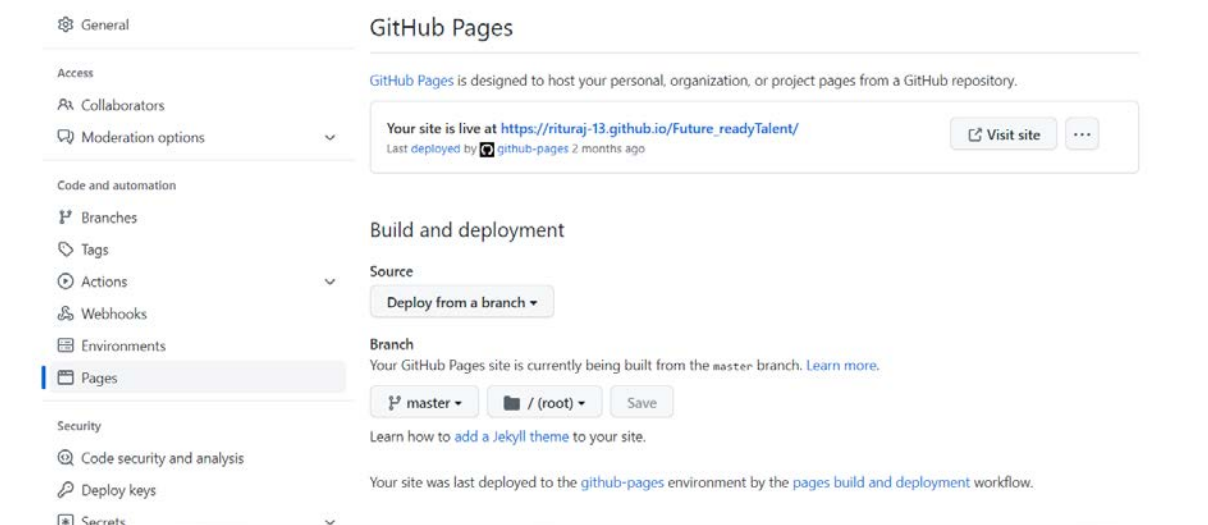
Basics of Azure Static Web App and JavaScript: Why it is Important for Fashion-Up website?

Fashion-Up website is a complex system and to build such a complex system we need to use various tools such as a programming language, and a hosting Platform . Here in our case, we are going to use a programming language and a Hosting platform. We can use programming languages like HTML, CSS and JavaScript and we can host the website with the help of GitHub pages and Azure Web static apps.

Steps to Create and Connect GitHub Pages and Azure Static Web apps:

Step 1: Deploy your project on the GitHub pages.

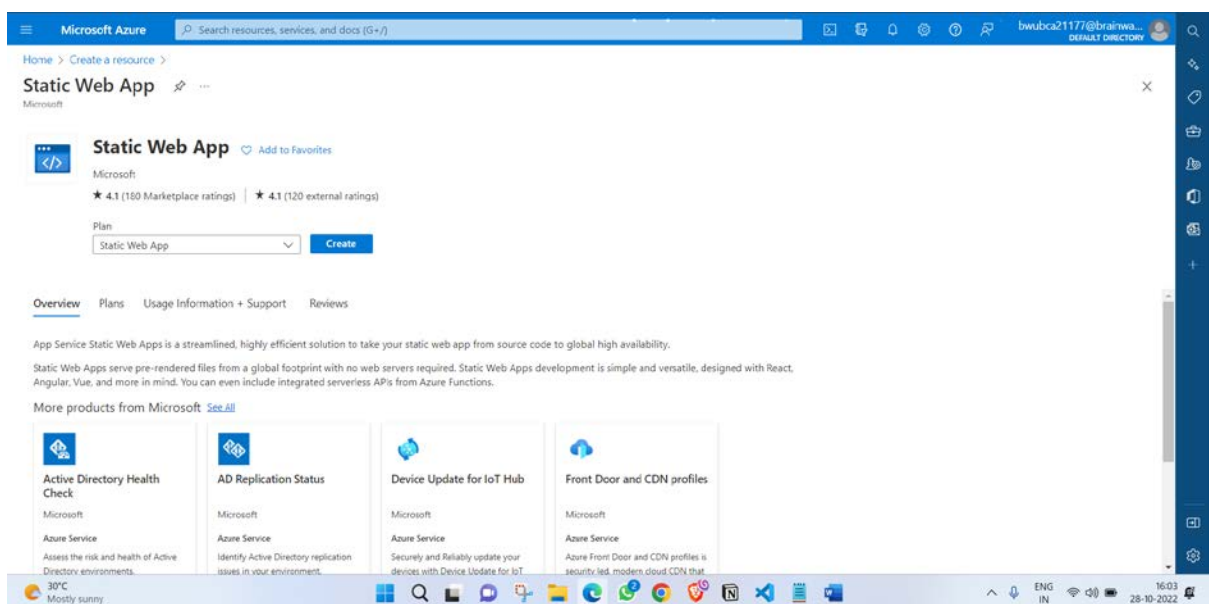
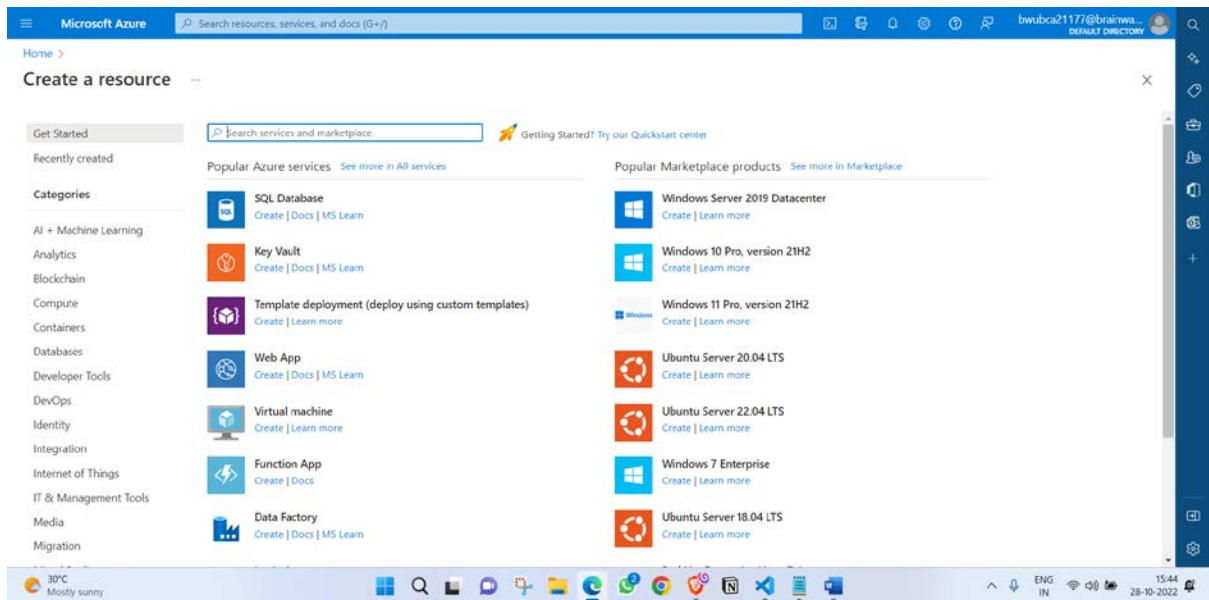
Deploy the project with the help of GitHub Pages.



Step 2: Create an Azure Account and log in to the Azure Portal.

Create an Azure account with the help of the links provided in this blog and then Log in to the Azure portal.

Now click on the Create a Resource and search for static web apps. Then click on the create button of Static web apps and it will redirect to the Azure Static Web app.



Step 3: Fill up the details and connect the created GitHub page with the Azure Static Web App

Fill the details properly. At Project Details section, choose the subscription to Azure for Students and then create a resource group according to your wish.

At Static Web App detail section, give a name of the Static Web App of your choice. (In my case, I named it as a Second-Site)

Let the Hosting Plan and Azure Functions and staging details be as default.

Now at the deployment section, choose GitHub and then connect your GitHub account by logging in to GitHub.

The Organisation section will be auto filled with you GitHub username. Then choose the repository of your project in which you created the GitHub pages and set the branch as master.

Now click the Review + create option.

Microsoft Azure | Search resources, services, and docs (G+)

Home > Future_readyTalent > Marketplace >

Create Static Web App

Basics | Tags | **Review + create**

App Service Static Web Apps is a streamlined, highly efficient solution to take your static app from source code to global high availability. Pre-rendered content is distributed globally with no web servers required. [Learn more](#)

Project Details

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

Subscription *

Resource Group * [Create new](#)

Static Web App details

Name *

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 *

Deployment details

Source GitHub Azure DevOps Other

GitHub account [Change account](#)

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

Organization *

Repository *

Branch *

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

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

[Review + create](#) [< Previous](#) [Next > Tags](#)

Step 4: Review all the details you provided.

Review all the details carefully and make correction if needed by clicking on the previous button.

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Create Static Web App

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Summary

Static Web App
by Microsoft

Details

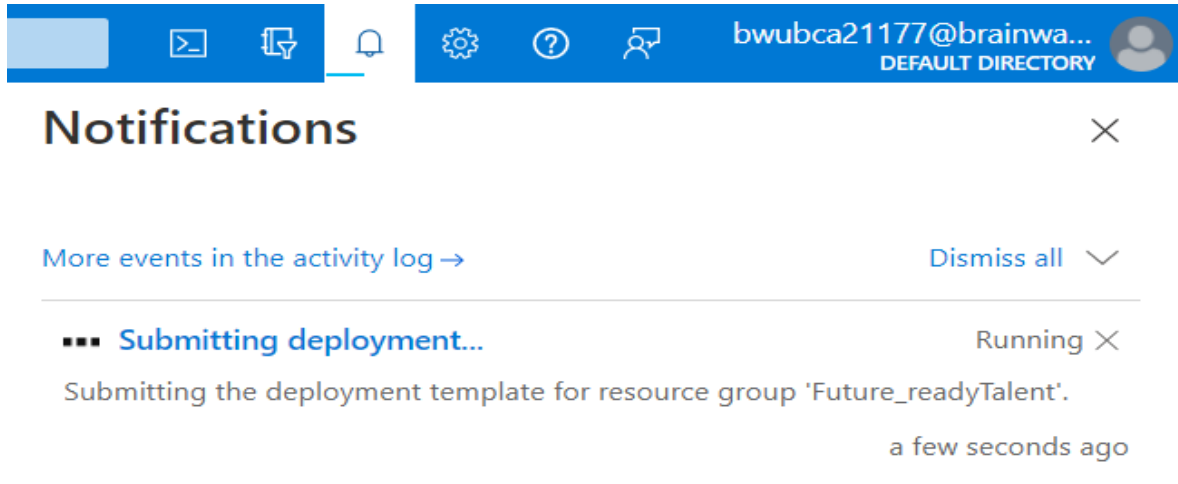
Subscription	ed:92045-d8cf-450a-ad05-2541a3ee890
Resource Group	Future_readyTalent
Name	Second-Site
Region	centralus
SKU	Free
Repository	https://github.com/Rituraj-13/Future_readyTalent
Branch	master
App location	/
API location	
Output location	

[Create](#) [< Previous](#) [Next >](#) [Download a template for automation](#)

Now click on **CREATE**.

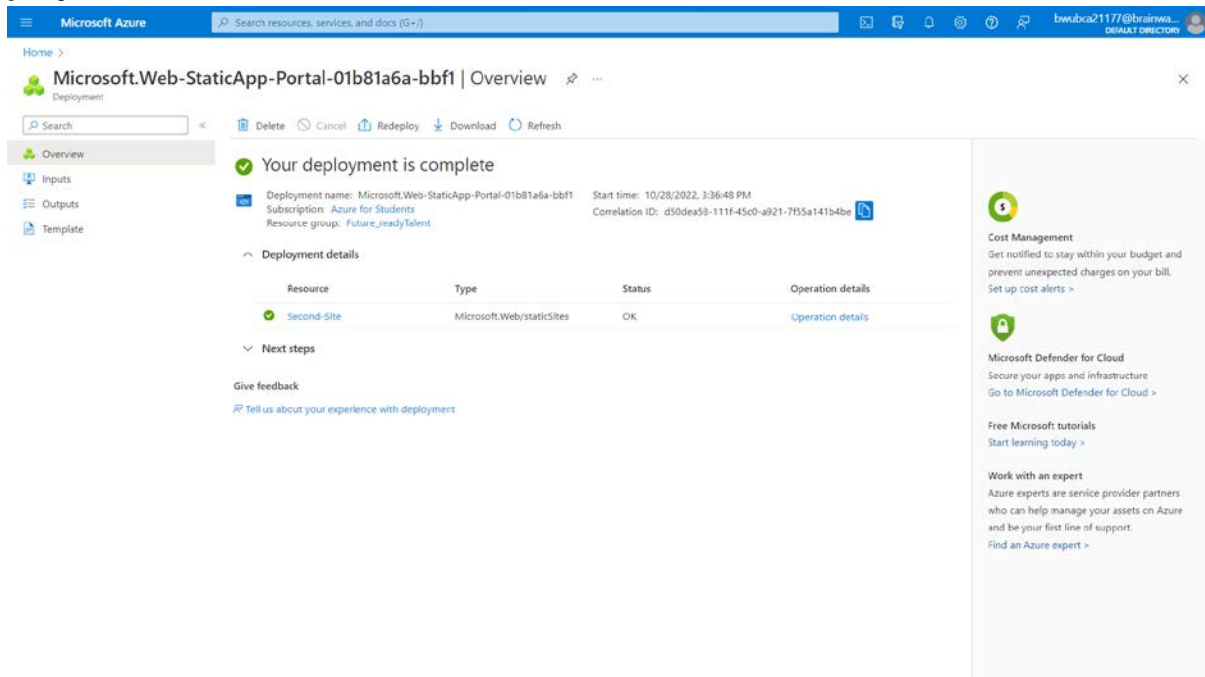
Step 5: The site is deployed on the Azure Static Web apps.

After clicking on the create button, a notification will pop up (...Submitting deployment).

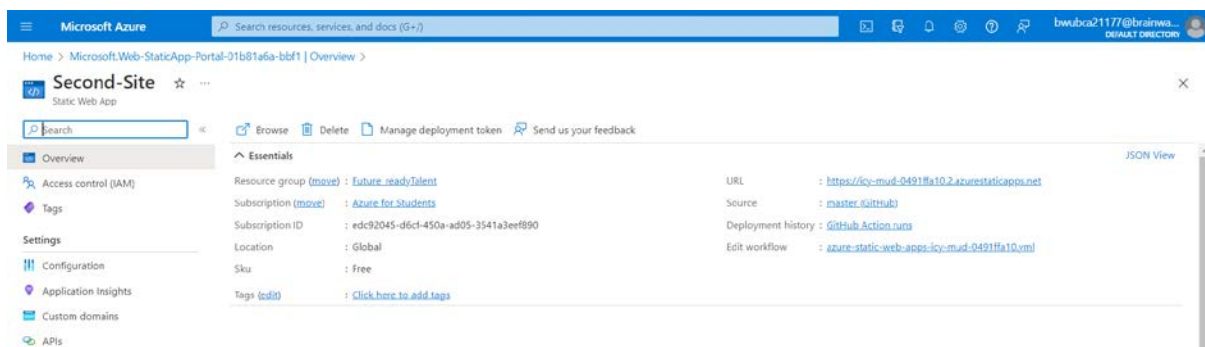


The screenshot shows the Azure portal's notification banner. At the top, there are icons for mail, share, and notifications, along with the user's profile 'bwubca21177@brainwa...' and 'DEFAULT DIRECTORY'. The main heading is 'Notifications' with a close button. Below it, there's a link to 'More events in the activity log' and a 'Dismiss all' button. A notification card is displayed with the title 'Submitting deployment...' and status 'Running'. The message reads: 'Submitting the deployment template for resource group 'Future_readyTalent''. It was received 'a few seconds ago'.

Then after successful deployment , you will get the deployment URL of the project.



The screenshot shows the 'Overview' page for a deployment in the Azure portal. The main message is 'Your deployment is complete'. Below this, it lists deployment details: 'Deployment name: Microsoft.Web-StaticApp-Portal-01b81a6a-bbf1', 'Subscription: Azure for Students', and 'Resource group: Future_readyTalent'. A table shows the deployment status for the 'Second-Site' resource, which is 'OK'. The page also includes sections for 'Next steps', 'Give feedback', and several recommendations like 'Cost Management', 'Microsoft Defender for Cloud', and 'Free Microsoft tutorials'.



The screenshot shows the 'Overview' page for the 'Second-Site' Static Web App. It includes a search bar and navigation options like 'Browse', 'Delete', and 'Manage deployment token'. The 'Essentials' section lists key information: 'Resource group: Future_readyTalent', 'Subscription: Azure for Students', 'Subscription ID: edc92045-d6c1-450a-ad05-3541a3ee890', 'Location: Global', 'Sku: Free', and 'Tags: Click here to add tags'. The 'JSON View' section displays the deployment URL: 'https://cy-mud-0491ffa102.azurestaticapps.net', source: 'master (github)', deployment history: 'GitHub Action runs', and edit workflow: 'azure-static-web-apps:cy-mud-0491ffa10.yml'.

Summary

This JavaScript-deployed Fashion-Up website demonstrates how to build a scalable and secure serverless architecture in Azure with the help of Azure Web Static apps and GitHub Pages.

1. GitHub URL :

- https://github.com/Rituraj-13/Future_readyTalent

2. Azure deployed Static Web App URL:

- <https://icy-mud-0491ffa10.2.azurestaticapps.net>
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Challenges Faced:

1. I was facing an issue at the time of deploying azure function. While deploying it fails many times and sometimes azure services cannot connect with the GitHub code.
 2. Took more time for deployment than usual.
 3. Identifying the errors and interruptions during deployment.
-

Business Benefits:

1. Performance - As developers, we are always trying to improve the speed of the applications we create. A fast website provides a significantly better user experience.
2. Developer experience- Static websites also hold the advantage of better developer experiences.
3. Security - This is handled by the provider you choose. They are the ones who maintain.
4. To learn top emerging technology from home.
5. Provides Global certification.

- By Rituraj Dey