



MALAYSIAN INSTITUTE OF INFORMATION TECHNOLOGY

MARCH 2024

IBB 43203 CLOUD COMPUTING

GROUP PROJECT ASSIGNMENT

PREPARED BY:

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PREPARED FOR:

MEGAT NORULAZMI MEGAT MOHAMED NOOR

Proposal Report

Introduction

The objective of this report is to provide evidence of the work conducted by the group members for the assignment given by Megat Norulazmi Megat Mohamed Noor. This project aims to deploy web application source code from GitHub on Microsoft Azure. The selected web application is a tip calculator, an open source React web app that allows users to easily calculate their purchase total, including tip and tax. This system is particularly useful for users at restaurants or cafeterias, saving time and effort in calculating the total amount with tip and tax included.

Below is a step-by-step guide on how to deploy web application source code from GitHub to Microsoft Azure.

Team Members Role:

Muhammad Raimee Bin Abdul Raof – Leader

Amirun Amin Bin Mohamad Zamani – Researcher

Khairul Affandi Bin Nadziri - Reseacher

Mohammad Fauzan Bin Redzuan - Video Editor

Youtube Video Link to Guidance Step by Steps on deploying web application source code from GitHub on Microsoft Azure.

<https://youtu.be/-XTpMNMSJgg>

Deploying TIP CALCULATOR from
GitHub (source code) on Microsoft
Azure

IBB43203 - CLOUD COMPUTING

Video presented by:

MUHAMMAD RAIMEE BIN ABDUL RAOFF

KHAIRUL AFFANDI BIN NADZIRI

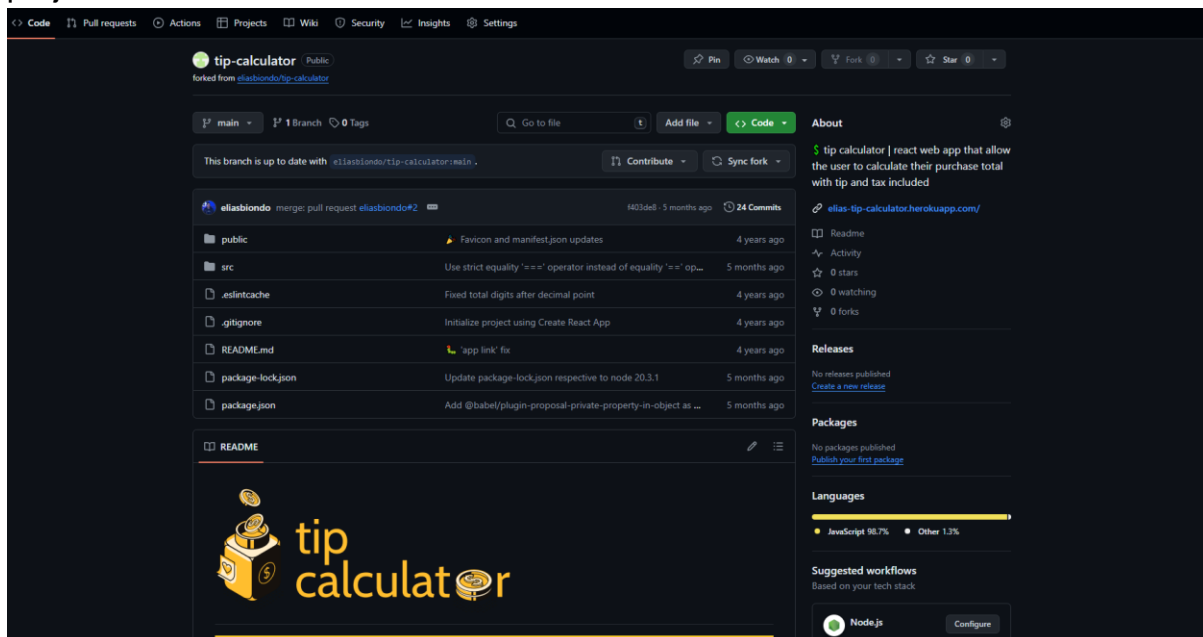
MOHAMMAD FAUZAN BIN REDZUAN

AMIRUN AMIN BIN MOHAMAD ZAMANI



Checking if the web app source code is useable or not.

Find and open a suitable web app source code git hub tip calculator for group project.



Open gitbash and enter command `$ git clone https://github.com/eliasbiondo/tip-calculator.git` to clone the repository to PC.

```
user@Cruvel-Desktop MINGW64 ~
$ git clone https://github.com/eliasbiondo/tip-calculator.git
fatal: destination path 'tip-calculator' already exists and is not an empty directory.
```

Then enter `$ cd tip-calculator` to move to tip-calculator folder area.

```
user@Cruvel-Desktop MINGW64 ~
$ cd tip-calculator/
```

Enter command \$ npm install to install npm software. If failed or memory leak, install npm by specific version (npm install / npm install npm install -g [npm@10.8.1](https://www.npmjs.com/package/npm@10.8.1)).

```
user@Cruvel-Desktop MINGW64 ~/tip-calculator (main)
$ npm install

up to date, audited 1741 packages in 3s

256 packages are looking for funding
  run 'npm fund' for details

12 vulnerabilities (5 moderate, 7 high)

To address issues that do not require attention, run:
  npm audit fix

To address all issues (including breaking changes), run:
  npm audit fix --force

Run 'npm audit' for details.
```

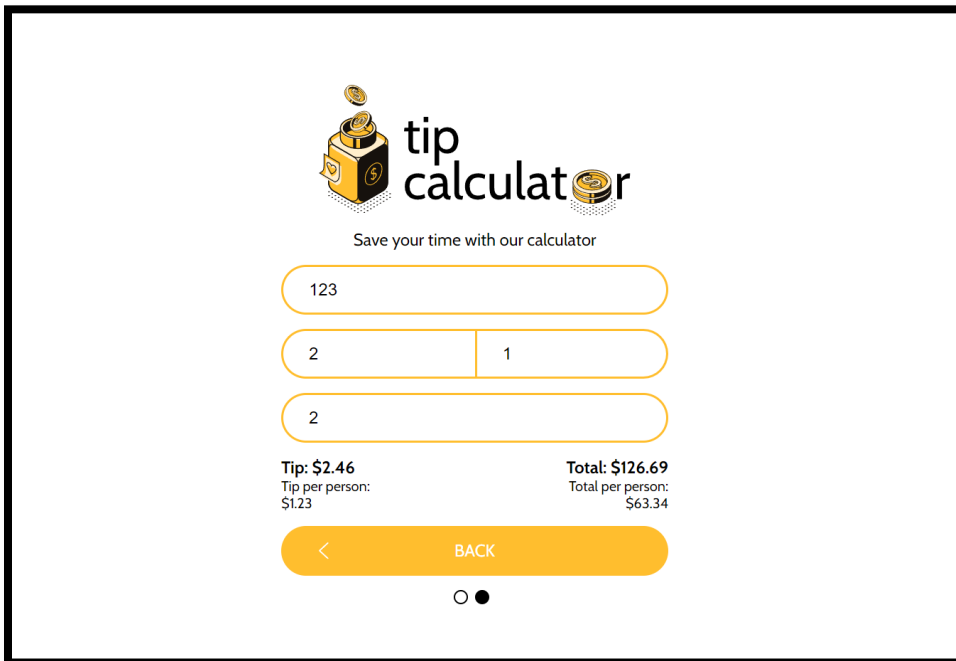
Next, enter \$ npm start command to start the deployment of the website to check if the web app source code exist and able to be used.

```
user@Cruvel-Desktop MINGW64 ~/tip-calculator (main)
$ npm start

> tip-calculator@0.1.0 start
> react-scripts start

(node:29068) [DEP_WEBPACK_DEV_SERVER_ON_AFTER_SETUP_MIDDLEWARE] DeprecationWarning: 'onAfterSetupMiddleware' option is deprecated. Please use the 'setupMiddlewares' option.
(Use 'node --trace-deprecation ...' to show where the warning was created)
(node:29068) [DEP_WEBPACK_DEV_SERVER_ON_BEFORE_SETUP_MIDDLEWARE] DeprecationWarning: 'onBeforeSetupMiddleware' option is deprecated. Please use the 'setupMiddlewares' option.
```

After the command `npm start`, it will pop up like this:



The image shows a mobile application interface for a tip calculator. At the top, there is a logo featuring a yellow piggy bank with a coin on top, followed by the text "tip calculator" in a bold, sans-serif font. Below the logo, the text "Save your time with our calculator" is displayed. The interface includes three input fields: the first contains the number "123", the second is split into two sections with "2" and "1", and the third contains the number "2". Below these fields, the calculated results are shown: "Tip: \$2.46", "Tip per person: \$1.23", "Total: \$126.69", and "Total per person: \$63.34". At the bottom, there is a yellow button with a left arrow and the text "BACK". Below the button, there are two small circles, the first of which is filled, indicating the current step in a sequence.

tip calculator

Save your time with our calculator

123

2 1

2

Tip: \$2.46
Tip per person: \$1.23

Total: \$126.69
Total per person: \$63.34

< BACK

○ ●

Deploying web application source code in GitHub in Microsoft Azure

Get azure sandbox to be enabled

Exercise - Create a web app in the Azure portal

5 minutes


Sandbox activated! Time remaining: **2 hr 55 min**


You have used 1 of 10 sandboxes for today. More sandboxes will be available tomorrow.


100 XP


Visit azure portal


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 Storage accounts



 SQL databases

 Azure Cosmos DB

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Resources


Recent Favorite


Name	Type	Last Viewed
 tip-calculator	Static Web App	12 minutes ago
 learn-c0f2b003-6576-4f87-adbb-28b785e98597	Resource group	13 minutes ago


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 Resource groups


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Analyze and optimize your cloud spend for free


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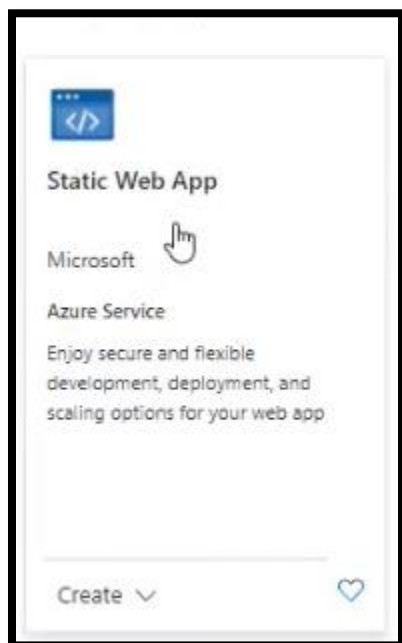
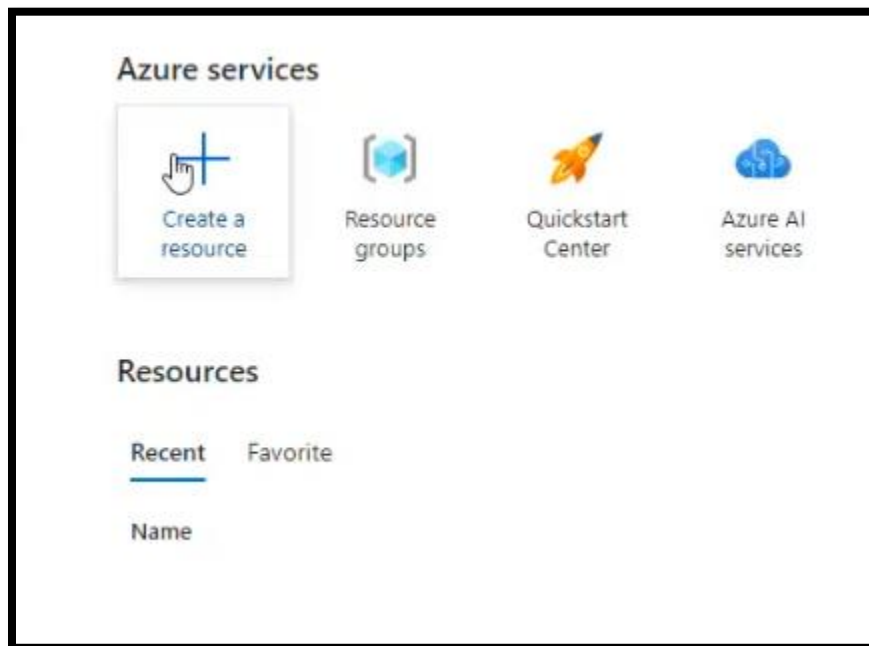
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[Quickstart Center](#)

Azure mobile app

 Download on the App Store


 GET IT ON Google Play

Create a resource and find static web app and then create.




Create Static Web App ...


[Basics](#) [Advanced](#) [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 * 

Concierge Subscription 

Resource Group * 

(New) Resource group 

[Create new](#)

Static Web App details

Name *

Enter a name for your Static Web App

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
☐ Dedicated (preview): For general purpose production apps

Regions

Global

Deployment details

Source

- ☒ GitHub ☐ Azure DevOps ☐ Other

GitHub account

Sign in with GitHub [Click here to login](#)

[Review + create](#)

[< Previous](#)

[Next : Advanced >](#)

Open tip calculator GitHub again and forked/ copy it to account

tip-calculator

Public

forked from eliasbiondo/tip-calculator

Pin

Watch 0

Fork 0

Star 0

Cannot fork because you own this repository and are not a member of any organizations.

main 1 Branch 0 Tags

Go to file t

Add file

Code

This branch is up to date with eliasbiondo/tip-calculator:main.

Contribute

Sync fork

eliasbiondo merge: pull request eliasbiondo#2

f403de8 · 5 months ago

24 Commits

public

Favicon and manifestjson updates

4 years ago

src

Use strict equality '===' operator instead of equality '==' op...

5 months ago

.eslintcache

Fixed total digits after decimal point

4 years ago

.gitignore

Initialize project using Create React App

4 years ago

README.md

'app link' fix

4 years ago

package-lockjson

Update package-lockjson respective to node 20.3.1

5 months ago

package.json

Add @babel/plugin-proposal-private-property-in-object as ...

5 months ago

About

\$ tip calculator | react web app that allow the user to calculate their purchase total with tip and tax included

elias-tip-calculator.herokuapp.com/

Readme

Activity

0 stars

0 watching

0 forks

Releases

No releases published

Create a new release

Packages

Create a new fork

A fork is a copy of a repository. Forking a repository allows you to freely experiment with changes without affecting the original project. [View existing forks.](#)

Required fields are marked with an asterisk (*).

Owner *

Repository name *

papermate9

/

tip-calculator

tip-calculator is available.

By default, forks are named the same as their upstream repository. You can customize the name to distinguish it further.

Description (optional)

\$ tip calculator | react web app that allow the user to calculate their purchase total with tip and tax included

☒ Copy the main branch only

Contribute back to eliasbiondo/tip-calculator by adding your own branch. [Learn more.](#)

You are creating a fork in your personal account.

Create fork

Cruvel / tip-calculator

Search Type to search

code Pull requests Actions Projects Wiki Security Insights Settings

tip-calculator

Public

forked from eliaslondo/tip-calculator

Pin Watch Fork Star 0

main 1 Branch 0 Tags

Go to file

Add file Code

This branch is 1 commit ahead of eliaslondo/tip-calculator:main

Contribute Sync fork

Cruvel

ci: add Azure Static Web Apps workflow file

2877909 · 16 minutes ago

25 Commits

.github/workflows

ci: add Azure Static Web Apps workflow file

16 minutes ago

public

Favicon and manifest.json updates

4 years ago

src

Use strict equality '===' operator instead of equality '==' op...

5 months ago

.eslintcache

Fixed total digits after decimal point

4 years ago

.gitignore

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4 years ago

README.md

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4 years ago

package-lock.json

Update package-lock.json respective to node 20.3.1

5 months ago

package.json

Add @babel/plugin-proposal-private-property-in-object as ...

5 months ago

README

About

\$ tip calculator | react web app that allow the user to calculate their purchase total with tip and tax included

elias-tip-calculator.herokuapp.com/

Readme

Activity

0 stars

0 watching

0 forks

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

Return to Azure static web app and login to GitHub account on deployment details

Home > Create a resource > Marketplace >

Create Static Web App

Basics

Advanced

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 *

Concierge Subscription

Resource Group *

(New) Resource group

Create new

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Name *

Enter a name for your Static Web App

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☒ Free: For hobby or personal projects

☐ Standard: For general purpose production apps

☐ Dedicated (preview): For general purpose production apps

Regions

Global

Deployment details

Source

☒ GitHub

☐ Azure DevOps

☐ Other

GitHub account

Cruvel [Change account](#)

If you can't find an organization or repository, you might need to enable additional permissions on GitHub. You must have write access to your chosen repository to deploy with GitHub Actions.

Organization *

Select organization

Review + create

< Previous

Next : Advanced >

Deployment details

Source

☒ GitHub

☐ Azure DevOps

☐ Other

GitHub account

Cruvel [Change account](#)

Fill in the details such as resource group, name, organization, repository, branch and change the build presets to custom.

[Home](#) > [Create a resource](#) > [Marketplace](#) >

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 * ⓘ

Concierge Subscription

Resource Group * ⓘ

learn-c0f2b003-6576-4f87-adbb-28b785e98597

[Create new](#)

Static Web App details

Name *

tipcalculator

Hosting plan

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Global

Deployment details

Source

☒ GitHub

☐ Azure DevOps

☐ Other

GitHub account

Cruvel [Change account](#) ⓘ

ⓘ If you can't find an organization or repository, you might need to enable additional permissions on GitHub. You must have write access to your chosen repository to deploy with GitHub Actions.

Organization *

Cruvel

Repository *

tip-calculator

Branch *

main

Build Details

Review + create

< Previous

Next : Advanced >

Build Presets

Custom

ⓘ These fields will reflect the app type's default project structure. Change the values to suit your app. [Learn more](#)


Review the information placed and create the web app.

Home > Create a resource > Marketplace >

Create Static Web App

Basics Advanced Tags **Review + create**

Summary

 **Static Web App**
by Microsoft

Details

Subscription	e889ae0a-e99e-4bfa-adde-c3bbad147058
Resource Group	learn-c0f2b003-6576-4f87-adbb-28b785e98597
Name	tip-calculator
Region	westus2
SKU	Free
Repository	https://github.com/Cruvel/tip-calculator
Branch	main
App location	/
API location	
Output location	

tip-calculator Static Web App

Search

View app in browser Delete Manage deployment token Send us your feedback

Thank you for using Azure Static Web Apps! We have not received any content for your site yet. Click here to check the status of your GitHub Action runs.

Essentials

Resource group	learn-c0f2b003-6576-4f87-adbb-28b785e98597	URL	https://gray-coast-0ae1b171e5.azurestaticapps.net
Subscription	Concierge Subscription	Source	main (GitHub)
Subscription ID	e889ae0a-e99e-4bfa-adde-c3bbad147058	Deployment history	GitHub Action runs
Location	Global	Edit workflow	azure-static-web-apps-gray-coast-0ae1b171e5
SKU	Free		
Tags	Add tags		

Get started

Monitoring

View your application

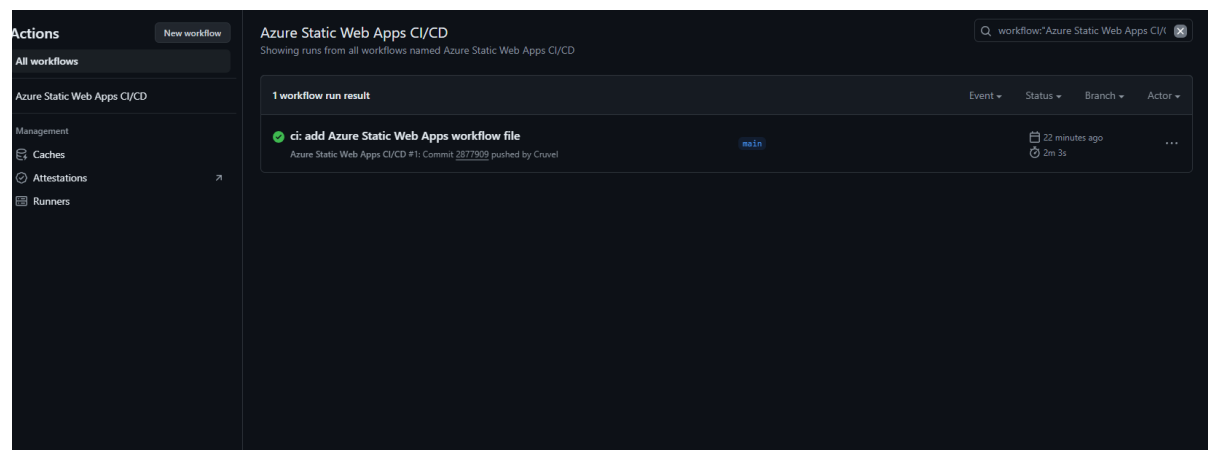
Status	Waiting for deployment	Environment	Production	Domain	https://gray-coast-0ae1b171e5.azurestaticapps.net	Hosting plan	Free
--------	------------------------	-------------	------------	--------	---	--------------	------

Visit your site

Prepare for production (0/3 completed)

Click GitHub action runs and check to see if the GitHub deployment ready.

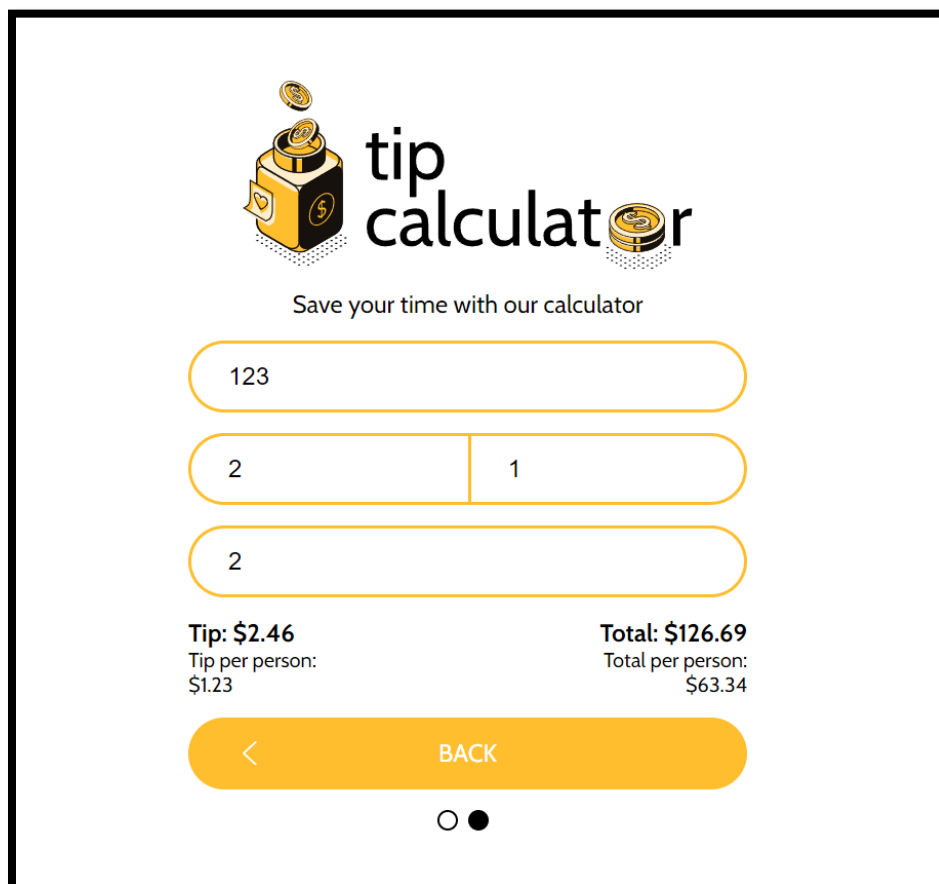
Deployment history : [GitHub Action runs](#)



The screenshot shows the GitHub Actions interface. On the left, the 'Actions' tab is selected, and the 'All workflows' section is expanded. The workflow 'Azure Static Web Apps CI/CD' is highlighted. The main area shows the '1 workflow run result' for the 'ci: add Azure Static Web Apps workflow file' job. The job status is 'Success', and it was completed 22 minutes ago. The commit is '2877909 pushed by Cruel'.

When GitHub action runs are complete, go back to Overview page of the tip calculator static web app azure and click at URL link to view the website that has been deployed.

URL : <https://gray-coast-0ae1b171e5.azurestaticapps.net>



The image shows a mobile app interface for a tip calculator. At the top, there is a logo with a coin and the text 'tip calculator'. Below the logo, it says 'Save your time with our calculator'. There are three input fields: the first contains '123', the second contains '2', and the third contains '1'. Below these fields, there is a summary section showing 'Tip: \$2.46' and 'Total: \$126.69'. At the bottom, there is a yellow button with a left arrow and the text 'BACK'.

tip calculator

Save your time with our calculator

123

2 1

2

Tip: \$2.46
Tip per person: \$1.23

Total: \$126.69
Total per person: \$63.34

< BACK