

Candidate Details:

Name	: Nivasan V
Emp ID	: 103938
Batch	: Common Module Batch 1
Organization	: Volkswagen Group Technology Solutions India
Project Type	: Ecommerce

Tools and Technology used:

- 1) Languages : HTML5, CSS3, JavaScript, Python, Flask, NoSQL
- 2) Development environment : GitHub Codespace
- 3) Version Control : Git
- 4) Version Controlling Platform : GitHub
- 5) Containerization : Docker, Docker Hub
- 6) Cloud(IaaS) : Google Cloud Platform(Google Compute Engine)
- 7) Cloud(PaaS) : Google Firebase

Access the app from anywhere by clicking this [link](#) or type **34.100.179.22** in your browser

Steps to run a project:

Type 1 : (via GitHub) using python

- 1) git clone <https://github.com/NivasanV/ecommerce-flask.git> or
Download the Zip
- 2) Install python3 in your machine with pip
- 3) Open the terminal or CMD in our project directory
- 4) \$ pip install flask
- 5) \$ python app.py
- 6) You can access the app in **http://127.0.0.1:5000**

Alternatives (using docker)

- 1) \$ docker build -t ecommerce-app .
- 2) \$ docker run -p 5000:5000 -d ecommerce-app
- 3) You can access the app in **http://127.0.0.1:5000**

Type 2 : (via Docker Hub) using docker

- 1) `$ docker pull nivasan/ecommerce-app`
- 2) `$ docker run -p 5000:5000 -d ecommerce-app`
- 3) You can access the app in <http://127.0.0.1:5000>

Reference images below

GitHub Repo:

The screenshot shows the GitHub repository page for `NivasanV/ecommerce-flask`. The repository is public and has 19 commits. The file list includes `static`, `templates`, `Dockerfile`, `README.md`, and `app.py`. The `README.md` file is selected, showing its content. The right sidebar contains the 'About' section with no description, website, or topics provided, and the 'Releases' section with no releases published.

File	Commit	Time
static	login-firebase	18 hours ago
templates	account-update	18 hours ago
Dockerfile	docker	16 hours ago
README.md	Initial commit	4 days ago
app.py	docker	16 hours ago

Github Codespace :

The image shows the GitHub Codespaces interface. The top section displays the 'Your codespaces' page for the repository 'NivasanV/ecommerce-flask'. It lists a codespace named 'bug-free sniffle' with 2-core, 8GB RAM, and 32GB storage. The status is 'Active'.

The bottom section shows a code editor view of the 'app.py' file. The code is as follows:

```
1 from flask import Flask, render_template
2 app = Flask(__name__)
3
4 @app.route('/')
5 def index():
6     return render_template('index.html')
7
8 @app.route('/products')
9 def products():
10    return render_template('products.html')
11
12 @app.route('/product-1-details')
13 def product_1_details():
14    return render_template('product-1-details.html')
15
16 @app.route('/account')
17 def account():
18    return render_template('account.html')
19
20 @app.route('/cart')
21 def cart():
22    return render_template('cart.html')
23
24 @app.route('/account-test')
```

The interface includes a sidebar with a file explorer showing the project structure, including 'static', 'templates', and 'app.py'. The bottom status bar indicates the current branch is 'main' and the codespace is 'bug-free sniffle'.

Docker Hub:

The screenshot shows the Docker Hub interface for the repository `nivasan/ecommerce-app`. The page includes a search bar, navigation links (Explore, Repositories, Organizations, Help), and a 'Manage Repository' button. The repository is categorized as an 'Image' and was updated 'a minute ago' by 'nivasan'. It has 0 pulls. The 'Tags' tab is active, showing a list of tags. The 'latest' tag is selected, with a 'Last pushed a minute ago by nivasan' note. Below the tag, the digest is `b7e899277538`, the OS/ARCH is `linux/amd64`, and the compressed size is `36.14 MB`. A terminal snippet shows the command `docker pull nivasan/ecommerce-a...`. The Windows taskbar at the bottom shows the time as 11:49 AM on 10/12/2023.

GCP and Ubuntu Machine:

The screenshot shows the Google Cloud Platform console for the 'massive-sandbox-398906' project. The 'Compute Engine' section is active, displaying a list of VM instances. The 'instance-1' instance is highlighted, showing its status as 'Running', zone as 'asia-south1-c', internal IP as '10.160.0.4', and external IP as '34.100.179.22'. The external IP is circled in red. Below the table, there are 'Related actions' such as 'Explore Backup and DR', 'View billing report', 'Monitor VMs', 'Explore VM logs', 'Set up firewall rules', and 'Patch management'. The Windows taskbar at the bottom shows the time as 10:33 AM on 10/12/2023.

Status	Name	Zone	Recommendations	In use by	Internal IP	External IP	Connect
Running	instance-1	asia-south1-c			10.160.0.4 (nic0)	34.100.179.22 (nic0)	SSH

SSH-in-browser

```
nivasanvijay2002@instance-1:~$ git clone https://github.com/NivasanV/ecommerce-flask.git
Cloning into 'ecommerce-flask'...
remote: Enumerating objects: 161, done.
remote: Counting objects: 100% (161/161), done.
remote: Compressing objects: 100% (129/129), done.
remote: Total 161 (delta 59), reused 125 (delta 29), pack-reused 0
Receiving objects: 100% (161/161), 7.29 MiB | 23.33 MiB/s, done.
Resolving deltas: 100% (59/59), done.
nivasanvijay2002@instance-1:~$ cd ecommerce-flask/
nivasanvijay2002@instance-1:~/ecommerce-flask$ sudo docker build -t ecommerce-app .
[+] Building 9.5s (9/9) FINISHED
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [internal] load build definition from Dockerfile 0.0s
=> => transferring dockerfile: 140B 0.0s
=> [internal] load metadata for docker.io/library/python:3.11.6-alpine3.18 2.0s
=> [1/4] FROM docker.io/library/python:3.11.6-alpine3.18@sha256:3e73c0b6c1f0205225359acac5c8ab1852e7281 0.0s
=> [internal] load build context 0.3s
=> => transferring context: 12.1MiB 0.3s
=> CACHED [2/4] WORKDIR /app 0.0s
=> [3/4] ADD . /app 0.4s
=> [4/4] RUN pip install flask 6.5s
=> => exporting to image 0.3s
=> => writing image sha256:06b6c544b1063cedbb297312ebf51d5fcd771afd222c9ee6397621231c7dae01 0.3s
=> => naming to docker.io/library/ecommerce-app 0.0s
nivasanvijay2002@instance-1:~/ecommerce-flask$ sudo docker run -p 80:5000 -d ecommerce-app
07ee7bc42d8df9d41a56ffellac7bdd47701becc026da7c1d2cf9df29a2c25cfe
nivasanvijay2002@instance-1:~/ecommerce-flask$ sudo docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
07ee7bc42d8d   ecommerce-app   "python app.py"         11 seconds ago Up 10 seconds  0.0.0.0:80->5000/tcp, :::80->
nivasanvijay2002@instance-1:~/ecommerce-flask$
```

34.100.179.22

SSH

External IP

Connect

34.100.179.22

(nic0)

SSH

Hide

Monitor VMs

Monitor VMs across metrics like CPU

VM management

Watch updates and view patch

VM instances

34.100.179.22

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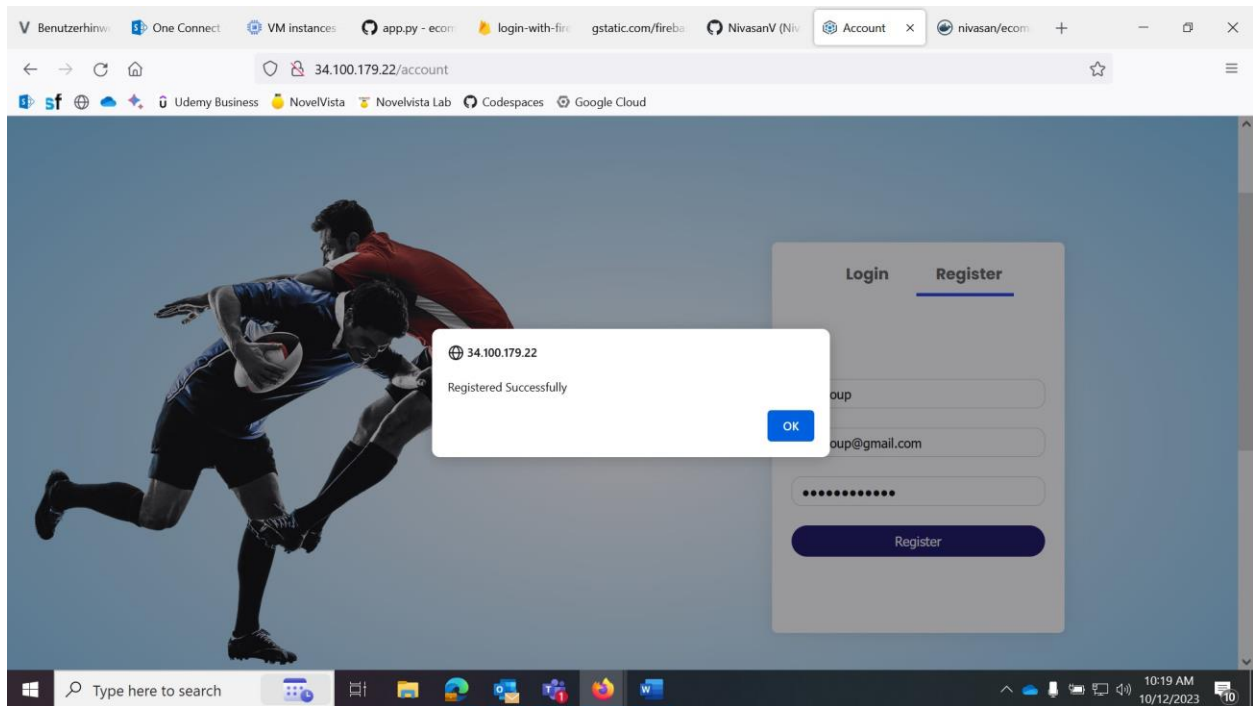
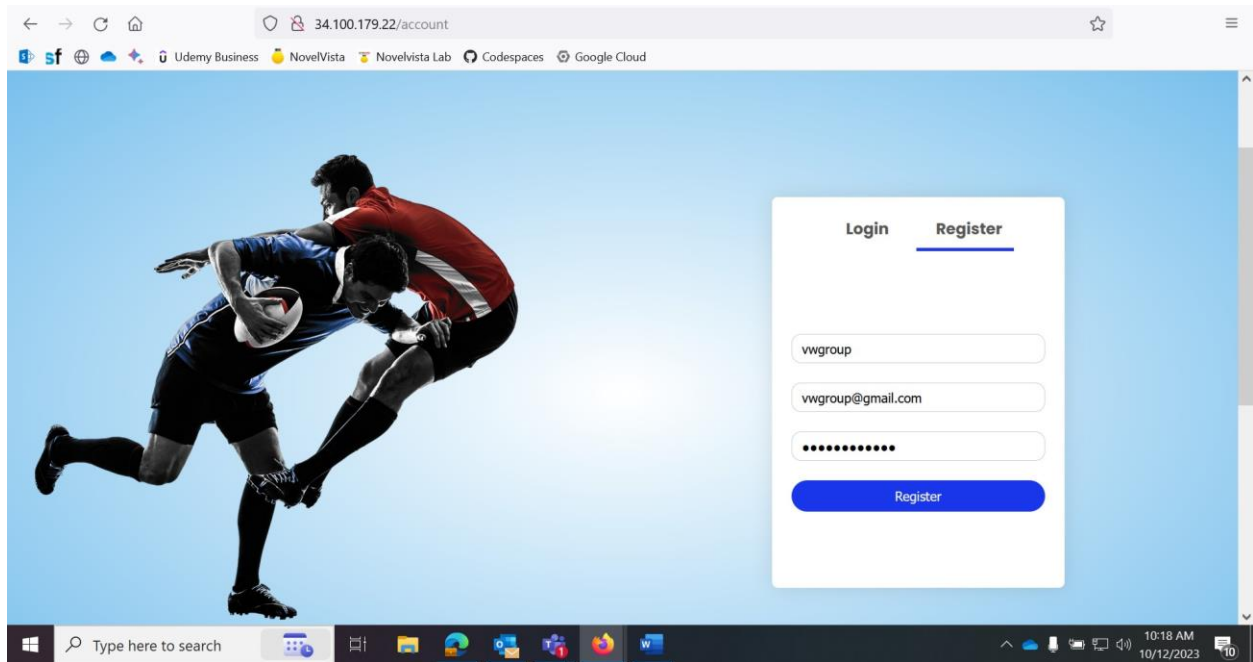
BlueStore

Home Products About Contact Account

Give Your Workout A New Style!

Success isn't always about greatness. It's about consistency. Consistent hard work gains success, greatness will come.

Firestore Authentication:



Benutzerhinw One Connect VM instances app.py - econ login-with- X gstatic.com/fireba NivasanV (Niv Account nivasan/econ + - X

https://console.firebase.google.com/project/login-with-firebase-db-23c90/authentication/users

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Firebase

Project Overview

Project shortcuts

Authentication

Realtime Database

Product categories

Build

Release and monitor

Analytics

Engage

Spark
No cost \$0/month Upgrade

login-with-firebase-db

Authentication

Users Sign-in method Templates Usage Settings Extensions

Search by email address, phone number or user UID [Add user](#)

Identifier	Providers	Created ↓	Signed in	User UID
vwgroup@gmail.com		12 Oct 2023	12 Oct 2023	4OWFwoMhi1WZckiDg4GIOrRu0ey1
nivasan@gmail.com		11 Oct 2023	11 Oct 2023	82R8Gy01q6c2XUrPwSYv3zvKYqu2

Rows per page 50 1 - 2 of 2

Type here to search

10:19 AM 10/12/2023