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## SPRINT-4

### SCREEN SHOTS

#### 1) DEPLOYING FLASK APPLICATION TO DOCKER CONTAINER

##### STEP-1 -BUILD A DOCKER IMAGE

```
Build an image from a Dockerfile

D:\Education\Personal expense tracker>docker build -t ibm_expense_tracker .
[+] Building 7.0s (11/11) FINISHED
=> [internal] load build definition from Dockerfile 0.0s
=> => transferring dockerfile: 187B 0.0s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [internal] load metadata for docker.io/library/python:3.10.6 2.2s
=> [auth] library/python:pull token for registry-1.docker.io 0.0s
=> [1/5] FROM docker.io/library/python:3.10.6@sha256:745efdfb7e4aac9a8422bd8c62d8bc35a693e8979a240d29677cb03e6aa 0.0s
=> [internal] load build context 0.4s
=> => transferring context: 248.82kB 0.4s
=> CACHED [2/5] WORKDIR /app 0.0s
=> CACHED [3/5] COPY requirements.txt ./ 0.0s
=> CACHED [4/5] RUN pip install -r requirements.txt 0.0s
=> [5/5] COPY . . 3.6s
=> exporting to image 0.7s
=> => exporting layers 0.6s
=> => writing image sha256:f0f6f8b25f135af9f055822ca101a18821bf073c1d86537a7c8d122a6e2146ee 0.0s
=> => naming to docker.io/library/ibm_expense_tracker 0.0s
```

## STEP-2 PUSH TO DOCKER HUB

```
(env) D:\Education\Personal expense tracker>docker tag personal_expense_tracker:latest jayaprakash291029/docker_personal_expense_tracker:latest
```

The screenshot shows the Docker Hub interface for the repository `jayaprakash2019/personal_expense_tracker`. The page includes a search bar, navigation tabs (General, Tags, Builds, Collaborators, Webhooks, Settings), and a description section. The repository is currently empty, with a message indicating that no tags are present. A table titled "Tags and scans" shows the latest tag, `latest`, which was pushed 2 minutes ago. The Docker commands section provides instructions on how to push a new tag to the repository. The Automated Builds section explains how to connect the repository to GitHub or Bitbucket for automatic builds.

General

Tags

Builds

Collaborators

Webhooks

Settings

Using 0 of 1 private repositories. [Get more](#)

Add a short description for this repository

The short description is used to index your content on Docker Hub and in search engines. It's visible to users in search results.

[Update](#)

**jayaprakash2019 / personal\_expense\_tracker**

Description

This repository does not have a description

Last pushed: 2 minutes ago

Docker commands

To push a new tag to this repository,

```
docker push jayaprakash2019/personal_expense_tracker:tagname
```

Public View

Tags and scans

VULNERABILITY SCANNING - DISABLED [Enable](#)

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
latest		Image	2 minutes ago	2 minutes ago

Automated Builds

Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.

Available with Pro, Team and Business subscriptions.

The screenshot shows a terminal window with the following output:

```
(env) D:\Education\Personal expense tracker>docker push jayaprakash2019/personal_expense_tracker:latest
The push refers to repository [docker.io/jayaprakash2019/personal_expense_tracker]
a6d568b45244: Pushed
a6d568b45244: Pushed
7fd724321473: Pushed
ef69fa57d96: Pushed
bf1cde8136e: Pushed
1f123186824c: Pushed
3d6e01152931: Pushed
100796cdf3b1: Pushed
54acb5a6fa0b: Pushed
8d51c618126f: Pushed
9f1fe4d6744c: Pushed
a89d1d47b5a1: Pushed
655ed1b7a428: Pushed
latest: digest: sha256:4d4a678b79947c838ca5e1a42b237e825e31ed8064e4eeec133c6c142cdd39043 size: 3056

(env) D:\Education\Personal expense tracker>docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS                               NAMES
4bae2cd6dea4   ibm_expense_tracker   "python ./app.py"       16 minutes ago   Up 16 minutes   0.0.0.0:5000->5000/tcp   ecstatic-babbage
f6d66a497955   kubernetestui/dashboard   "/dashboard --insecu..." 57 minutes ago   Up 57 minutes   -                                kas_kubernetes-dashboard_kubernetes-dashboard
66c887f759-92479_kubernetestui/dashboard_6374f8ce-dbed-463f-8dd8-4b436fb45dee_7_6e71a7371c2c   115053965e86           "/metrics-sidecar"       58 minutes ago   Up 58 minutes   -                                kas_dashboard-metrics-scra
cs-scra-per-6bcc67c9-f1hdq_kubernetestui/dashboard_8721ea17-e9ca-458b-bf29-793a48c17268_4
```

## STEP-3 RUN THE DOCKER IMAGE

```
(env) D:\Education\Personal expense tracker>docker run -p 3001:3000 jayaprakash291029/docker_personal_expense_tracker
```

```
PS C:\Windows\System32>cmd.exe - docker run -p 5000:5000 ibm_expense_tracker
-> => writing image sha256:f0f6f0b25f135af9f055822ca101a18821bf073c1d86537a7c8d122a6e2146ee 0.0s
-> => naming to docker.io/library/ibm_expense_tracker 0.0s

D:\Education\Personal expense tracker>docker run -p 5000:5000 ibm_expense_tracker
*ibm_db.IBM_DBConnection object at 0x749350c03410>
connection successful...
* Serving Flask app 'app'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://172.0.0.1:5000
* Running on http://172.17.0.2:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 975-195-025
172.17.0.1 - - [18/Nov/2022 08:11:42] "GET / HTTP/1.1" 200 -
172.17.0.1 - - [18/Nov/2022 08:11:42] "GET /static/css/home.css HTTP/1.1" 200 -
172.17.0.1 - - [18/Nov/2022 08:11:42] "GET /static/images/services.png HTTP/1.1" 200 -
172.17.0.1 - - [18/Nov/2022 08:11:42] "GET /static/js/home.js HTTP/1.1" 200 -
172.17.0.1 - - [18/Nov/2022 08:11:42] "GET /static/images/icons8-github-48.png HTTP/1.1" 200 -
172.17.0.1 - - [18/Nov/2022 08:11:42] "GET /static/images/icons8-linkedin-circled-50.png HTTP/1.1" 200 -
172.17.0.1 - - [18/Nov/2022 08:11:42] "GET /static/images/home_backimage.webp HTTP/1.1" 200 -
172.17.0.1 - - [18/Nov/2022 08:11:42] "GET /static/images/img-1.png HTTP/1.1" 200 -
172.17.0.1 - - [18/Nov/2022 08:11:44] "GET /favicon.ico HTTP/1.1" 404 -
172.17.0.1 - - [18/Nov/2022 08:12:15] "GET / HTTP/1.1" 200 -
172.17.0.1 - - [18/Nov/2022 08:12:16] "GET /static/css/home.css HTTP/1.1" 304 -
172.17.0.1 - - [18/Nov/2022 08:12:16] "GET /static/images/services.png HTTP/1.1" 200 -
172.17.0.1 - - [18/Nov/2022 08:12:16] "GET /static/js/home.js HTTP/1.1" 304 -
172.17.0.1 - - [18/Nov/2022 08:12:16] "GET /static/images/icons8-github-48.png HTTP/1.1" 304 -
172.17.0.1 - - [18/Nov/2022 08:12:16] "GET /static/images/icons8-linkedin-circled-50.png HTTP/1.1" 304 -
172.17.0.1 - - [18/Nov/2022 08:12:56] "GET /static/css/login.css HTTP/1.1" 304 -
172.17.0.1 - - [18/Nov/2022 08:12:56] "GET /static/js/login.js HTTP/1.1" 304 -
172.17.0.1 - - [18/Nov/2022 08:12:56] "GET /static/images/avatar.svg HTTP/1.1" 304 -
172.17.0.1 - - [18/Nov/2022 08:12:56] "GET /static/images/signup.jpg HTTP/1.1" 304 -
```