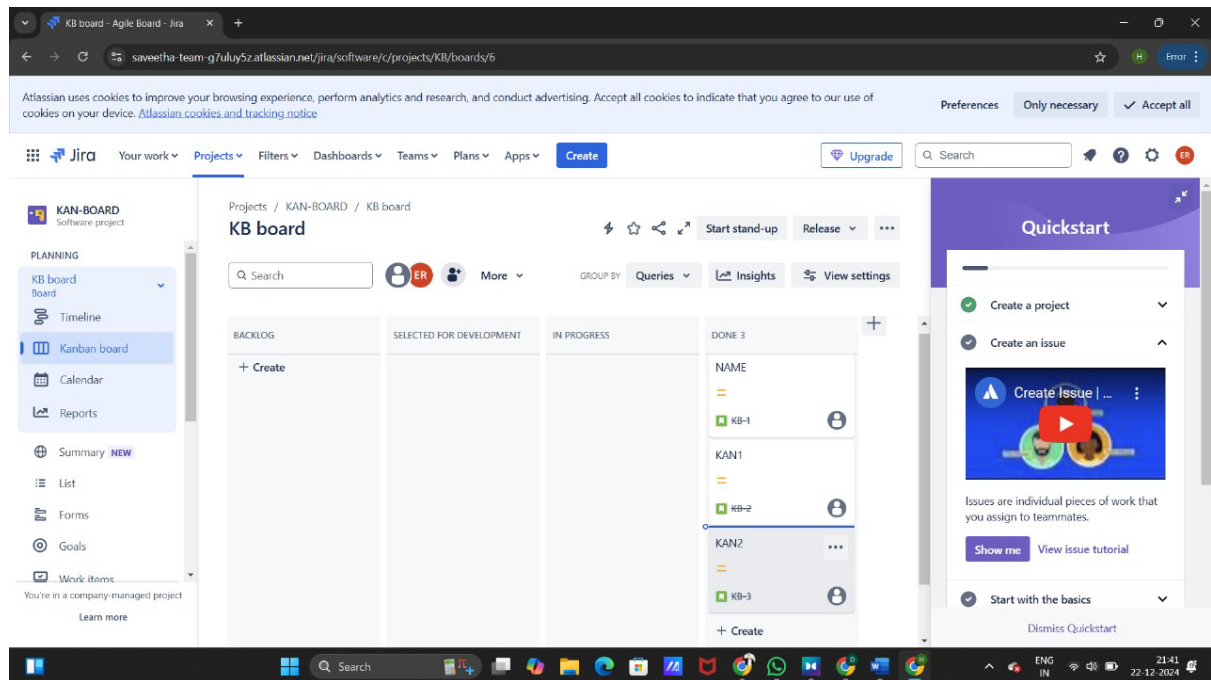


1.

EXPERIMENT-1



2.EXPERIMENT 2

BUS TICKET BOOKING

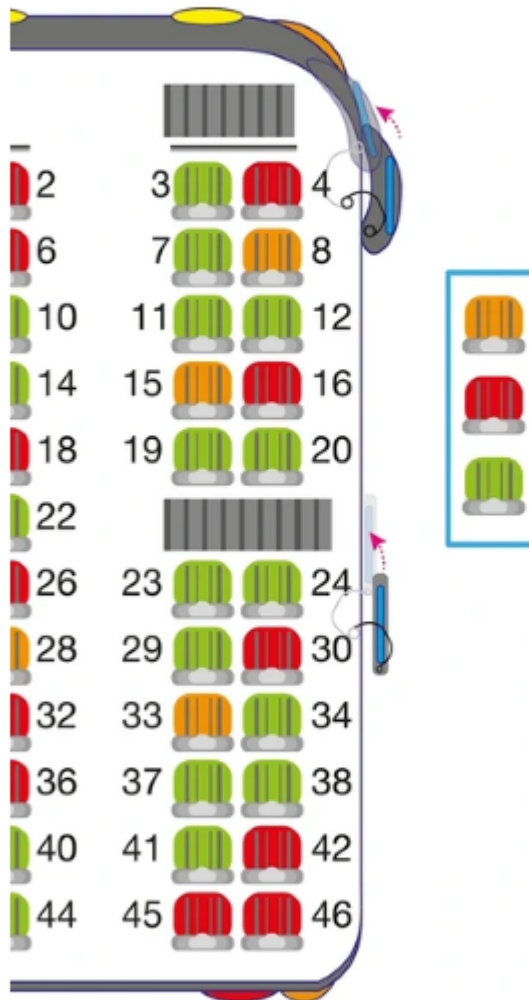


Edit with WPS Office



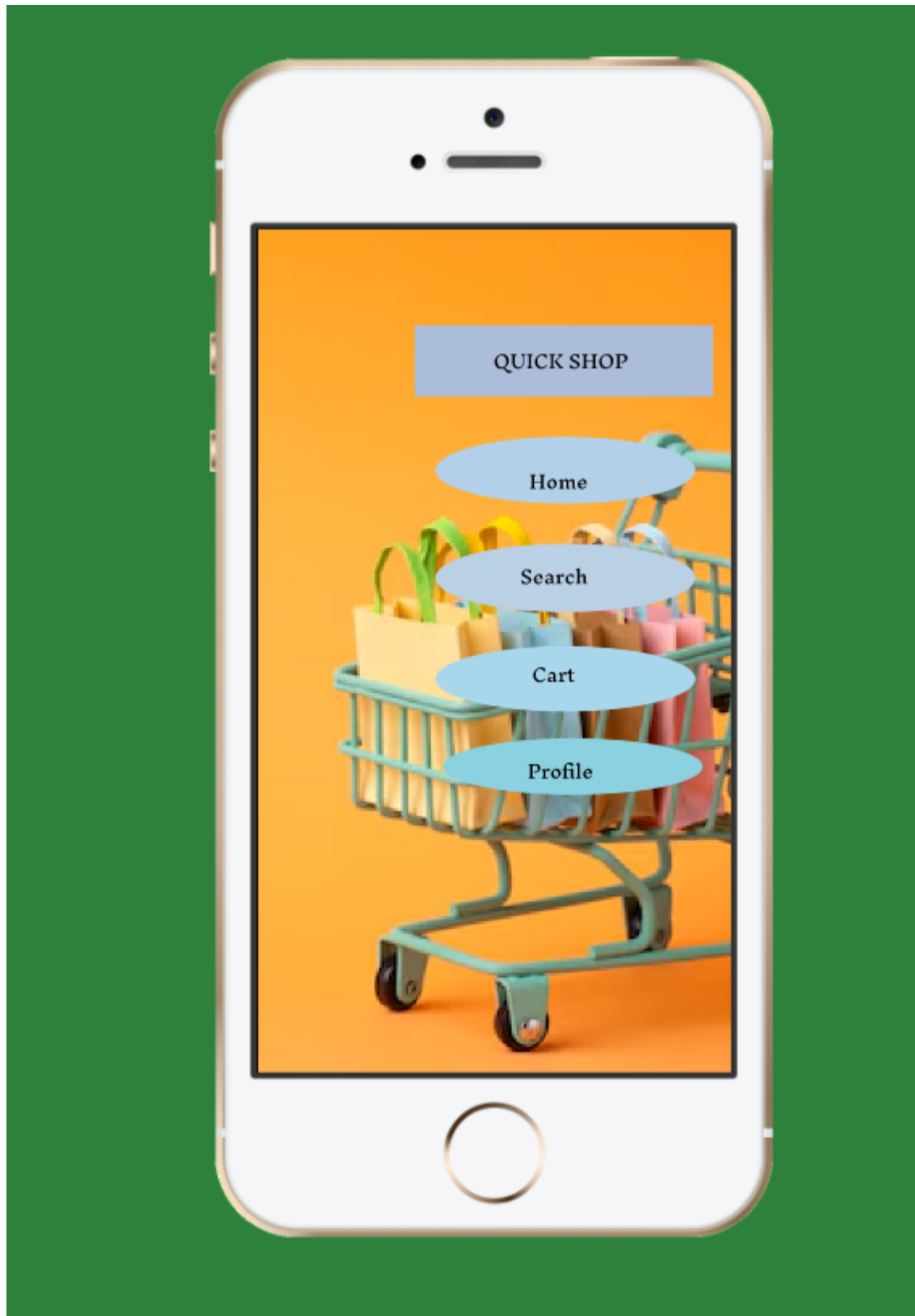
Edit with WPS Office

SEATING ALLOCATION

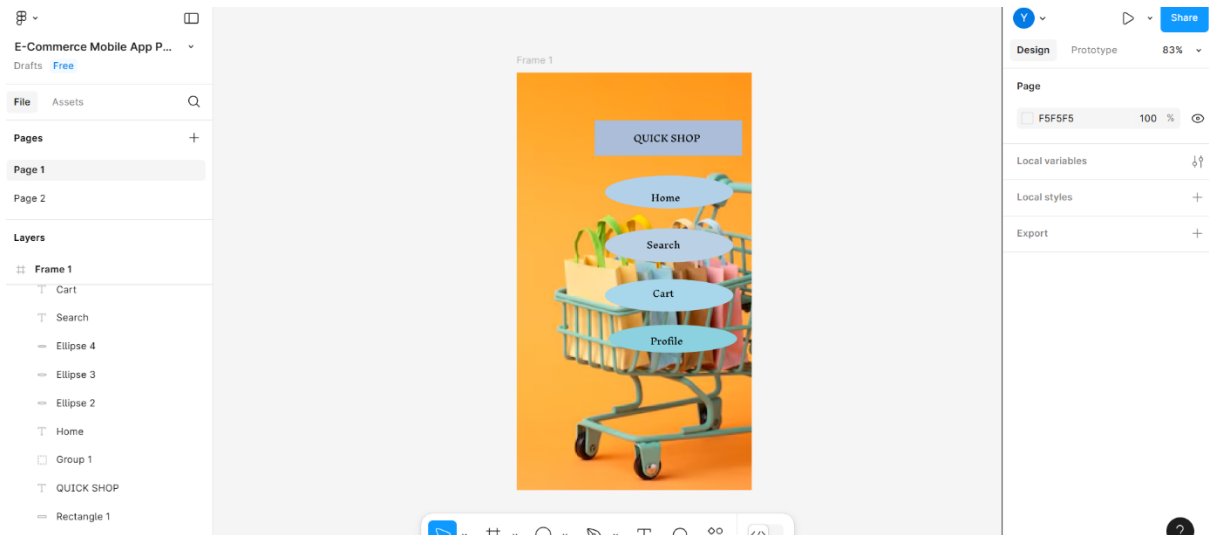


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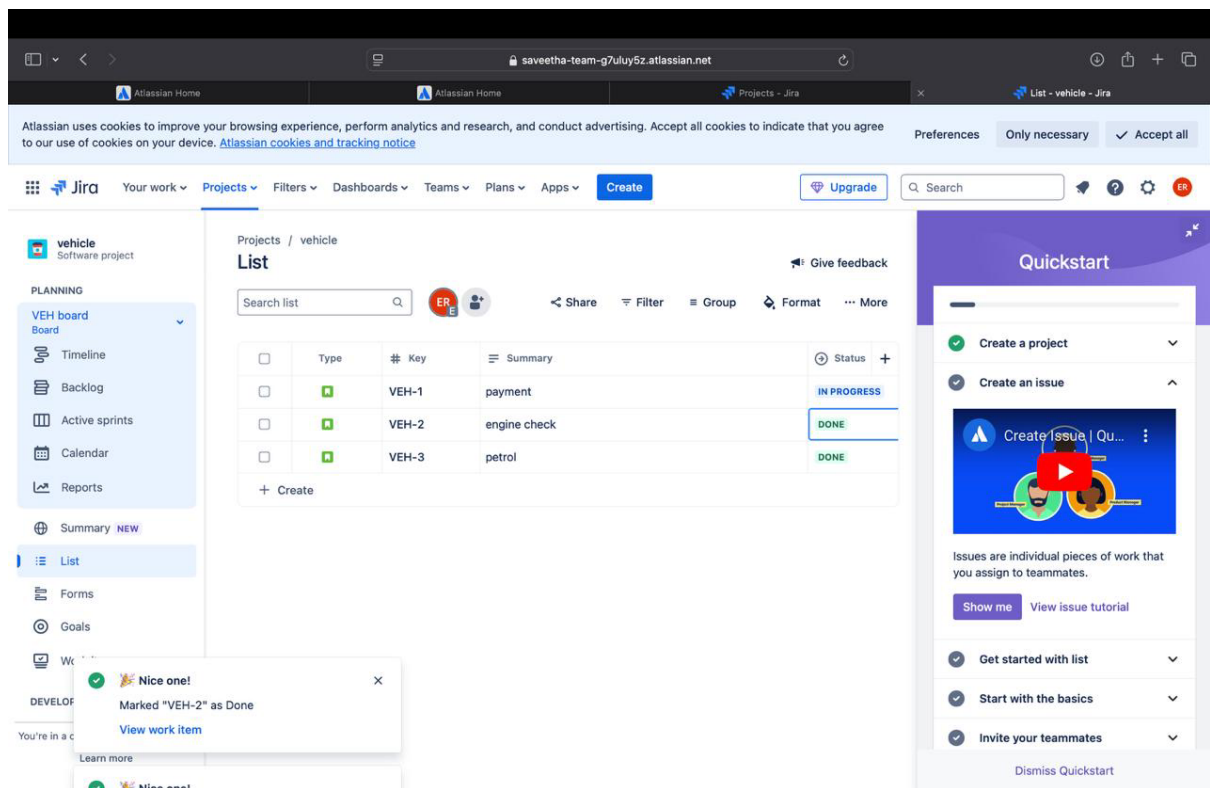
EXPERIMENT 3:



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EXPERIMENT-4



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EXPERIMENT -5:

Jira interface showing the Backlog for the Library Management ex5 project. The backlog lists issues categorized by priority (Epic, LME Sprint 1) and status (To Do, In Progress, Done). The issues include tasks like 'Search books by title and author', 'Online book reservation system', 'Generate monthly reports on borrowed books for administrators', 'Email notifications for overdue books', 'QR code scanning for borrowing/returning books', 'User-friendly dashboard for librarians', 'Allow users to review and rate books', and 'Develop a mobile app version of the system'.

Jira interface showing the LME Sprint 1 board for the Library Management ex5 project. The board displays issues categorized by priority (To Do, In Progress, Done) and status (To Do, In Progress, Done). The issues include tasks like 'Develop a mobile app version of the system', 'QR code scanning for borrowing/returning books', 'Implement a feature for advanced analytics on user data', 'Allow users to review and rate books', 'Multi-language support', 'Integrate a chatbot for user assistance', 'Online book reservation system', 'Search books by title and author', 'Enable email notifications for overdue books', 'Generate monthly reports on borrowed books for administrators', and 'Create a user-friendly dashboard for librarians'.

| REQUIREMENT | MOSCOW CATEGORY | JUSTIFICATION |
|--|-----------------|--|
| Search books by title and author | Must-Have | Core feature for users to find books, critical to the system's functionality. |
| Online book reservation system | Must-Have | Fundamental to modern library operations and user satisfaction. |
| Monthly reports on borrowed books | Must-Have | Necessary for administrators to manage and track library performance. |
| Email notifications for overdue books | Should-Have | Enhances user experience but not critical to the basic functionality of the system. |
| QR code scanning for borrowing/returning | Should-Have | Increases efficiency but can be implemented later if resources are constrained. |
| User-friendly dashboard for librarians | Must-Have | Essential for the library staff to manage operations efficiently. |
| Allow users to review and rate books | Could-Have | Nice-to-have feature that enhances user engagement but not critical to library operations. |
| Integrate a chatbot for user assistance | Could-Have | Useful for user support but can be deferred as it requires additional AI implementation resources. |
| Develop a mobile app version of the system | Should-Have | Aligns with user expectations in a digital age but can be implemented after core system. |
| Provide multi-language support | Won't-Have | While beneficial, it is resource-intensive and may not be feasible within the initial time and budget constraints. |



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EXPERIMENT:7

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Projects / experiment 7

E7 board

Q SearchYBLabel

GROUP BYNoneInsightsView settings

TO DO 4

User Login and Role Assignment
Must-HaveBasic-Need
E7-1

Task Creation and Assignment
Could-HaveBasic-Need
E7-2

Task Prioritization and Deadlines
Won't-HavePerformance-Need
E7-3

Progress Tracking and Reporting
Should-HaveEcitement-Need
E7-4

IN PROGRESS

DONE

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experiment 7Software project

PLANNINGTimelineBoardListFormsAdd viewDEVELOPMENTCodeProject pagesProject settingsArchived issuesNEW

Projects / experiment 7

E7 board

Q SearchYBLabel

GROUP BYNoneInsightsView settings

TO DO 1

Task Creation and Assignment
Basic-NeedCould-Have
E7-2

+ Create issue

IN PROGRESS 1

Task Prioritization and Deadlines
Performance-NeedWon't-Have
E7-3

DONE 2

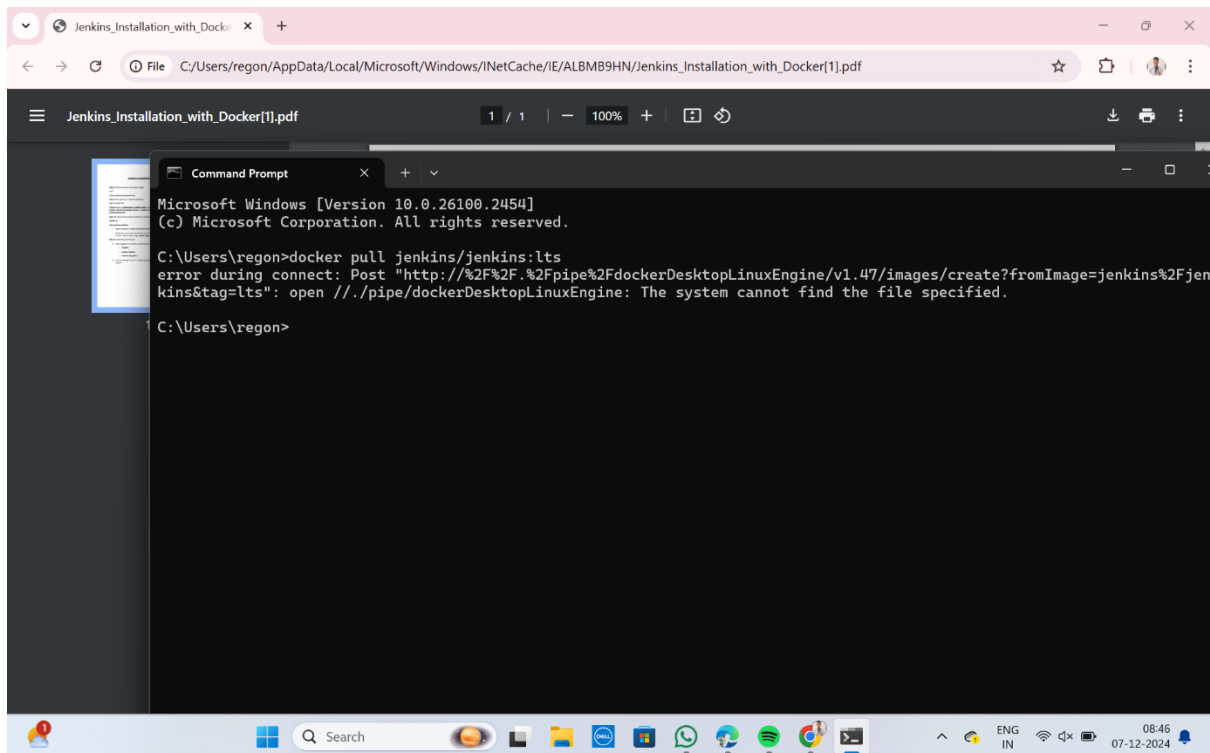
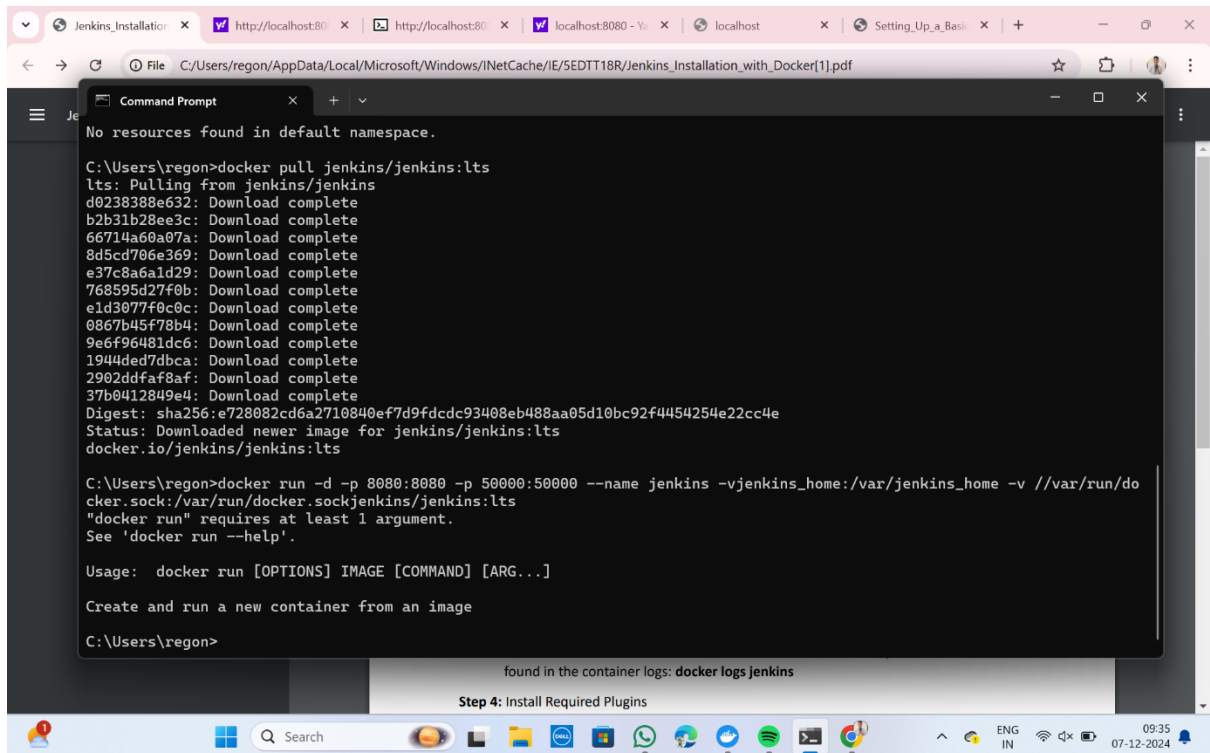
Progress Tracking and Reporting
Should-HaveEcitement-Need
E7-4

User Login and Role Assignment
Basic-NeedMust-Have
E7-1

EXPERIMENT-9



Edit with WPS Office



Edit with WPS Office

Experiment:10

```
MINGW64/c/Users/regon/OneDrive/Documents/git-workshop-template[1]/git-workshop-template
$ git init
Total 26 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/regondamaruthi123/git-workshop.git
regon@RegondaMaruthi MINGW64 ~/OneDrive/Documents/git-workshop-template[1]/git-workshop-template (feature/task1)
$ git add .
$ git commit -m "Initial commit"
regon@RegondaMaruthi MINGW64 ~/OneDrive/Documents/git-workshop-template[1]/git-workshop-template (feature/task1)
$ git push origin feature/task1
Counting objects: 100% (26/26), 3.63 KiB | 372.00 KiB/s, done.
Compressing objects: 100% (6/6), 580 bytes | 145.00 KiB/s, done.
Writing objects: 100% (6/6), 580 bytes | 145.00 KiB/s, done.
Total 6 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
remote: Create a pull request for 'feature/task1' on GitHub by visiting:
remote:   https://github.com/regondamaruthi123/git-workshop/pull/new/feature/task1
remote:
To https://github.com/regondamaruthi123/git-workshop.git
 * [new branch]   feature/task1 -> feature/task1

regon@RegondaMaruthi MINGW64 ~/OneDrive/Documents/git-workshop-template[1]/git-workshop-template (feature/task1)
$ git push origin feature/task1
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.

regon@RegondaMaruthi MINGW64 ~/OneDrive/Documents/git-workshop-template[1]/git-workshop-template (feature/task1)
$ git push origin feature/task1
Enumerating objects: 11, done.
Counting objects: 100% (11/11), done.
Delta compression using up to 12 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 580 bytes | 145.00 KiB/s, done.
Total 6 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
remote: Create a pull request for 'feature/task1' on GitHub by visiting:
remote:   https://github.com/regondamaruthi123/git-workshop/pull/new/feature/task1
remote:
To https://github.com/regondamaruthi123/git-workshop.git
 * [new branch]   feature/task1 -> feature/task1
```


11

<> index.html > ...

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4  |   <meta charset="UTF-8">
5  |   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6  |   <title>Static Website</title>
7  </head>
8  <body>
9  |   <h1>Welcome to My Static Website</h1>
10 |   <p>This website is served using Nginx in a Docker container!</p>
11 </body>
12 </html>
13 |
```



Edit with WPS Office

MyDockerfile.dockertile > ...

```
1  # Use the official Nginx image as the base image
2  FROM nginx:latest
3
4  # Copy the static website files into the Nginx HTML directory
5  COPY ./index.html /usr/share/nginx/html/index.html
6
7  # Expose port 80 to allow web traffic
8  EXPOSE 80
9
10 # Start the Nginx server
11 CMD ["nginx", "-g", "daemon off;"]
12
```

The screenshot shows the Docker Desktop interface. On the left is a sidebar with navigation options: Containers, Images, Volumes, Builds, Docker Scout, and Extensions. The main area is titled 'Containers' and includes a search bar, a toggle for 'Only show running containers', and a table of containers.

| | Name | Container ID | Image | Port(s) | CPU (%) | Last started | Actions |
|-------------------------------------|------------------|--------------|---------------------|-----------------------------------|---------|----------------|---------|
| <input type="checkbox"/> | jenkins | a8911486db02 | jenkins/jenkins:lts | 50000:50000 Show all ports (?) | 0% | 33 minutes ago | |
| <input type="checkbox"/> | awesome-ellis | 3c9f63090959 | hello-world | | 0% | 32 minutes ago | |
| <input type="checkbox"/> | zen-matsumoto | /c4f1c08a6// | hello-world | | 0% | 31 minutes ago | |
| <input checked="" type="checkbox"/> | static-container | c72c2b6d192c | static-website | 8080:80 | 0% | 23 seconds ago | |

Showing 4 items

Below the table is a 'Terminal' window showing the command used to start the 'static-container':

```
PS C:\Users\VOGENDRA> docker run -d -p 8080:80 --name static-container static-website
>> c72c2b6d192c9228edfc69e536dbeca4db3a1f72ccff390950c84f11ad7c141
PS C:\Users\VOGENDRA>
```

16...



Edit with WPS Office

```
C:\Windows\System32\cmd x + v
Microsoft Windows [Version 10.0.26100.2605]
(c) Microsoft Corporation. All rights reserved.

C:\experiment16>docker build -t todo .
[+] Building 8.3s (9/9) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 451B
=> [internal] load metadata for docker.io/library/python:3.9-slim
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/4] FROM docker.io/library/python:3.9-slim
=> [internal] load build context
=> => transferring context: 1.50kB
=> CACHED [2/4] WORKDIR /app
=> [3/4] COPY . /app
=> [4/4] RUN pip install --no-cache-dir -r requirements.txt
=> exporting to image
=> => exporting layers
=> => writing image sha256:4c8b83bfd85aa7842575af20238f665fd7d4ef72c71cbb4270401d36635c9960
=> => naming to docker.io/library/todo

View build details: docker-desktop:///dashboard/build/desktop-linux/desktop-linux/t9b7ucv0pk23fvtfhh60bpb5p

C:\experiment16>
```

Containers [Give feedback](#)

View all your running containers and applications. [Learn more](#)

Container CPU usage ⓘ

0.95% / 1600% (16 CPUs available)

Container memory usage ⓘ

83.76MB / 7.42GB

[Show charts](#)

🔍 Search



Only show running containers

Terminal

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
PS C:\Users\YOGENDRA> docker push yogi906/todo
Using default tag: latest
The push refers to repository [docker.io/yogi906/todo]
cf11ddf128a7: Pushed
25a3c85fa7be: Pushed
8ac10a02b44b: Mounted from yogi906/flask-api
aacba17e24d9: Mounted from yogi906/flask-api
f751ad7c65c4: Mounted from yogi906/flask-api
7822e749b484: Mounted from yogi906/flask-api
c3548211b826: Mounted from yogi906/flask-api
latest: digest: sha256:5337bd98c4d8e5d792156627120113d560960aba136c8218e71a7dbe44615aaf size: 1784
PS C:\Users\YOGENDRA>
```



Edit with WPS Office

Containers [Give feedback](#)

View all your running containers and applications. [Learn more](#)

| <input type="checkbox"/> | Name | Container ID | Image ↓ | Port(s) | CPU (%) | Last started | Actions |
|--------------------------|------------------|---------------|-------------------------|---------------|---------|----------------|---------|
| <input type="checkbox"/> | friendly_bartik | d363219088cc | yogi906/flask-api | 5000:5000 | 0% | 4 days ago | |
| <input type="checkbox"/> | eloquent_moser | 366eb71bcf1d | todo | 5000:5000 ↗ | 0.48% | 17 minutes ago | |
| <input type="checkbox"/> | static-container | c72c2b6d192c | static-website | 8080:80 | 0% | 4 days ago | |
| <input type="checkbox"/> | modest_keller | a32bc265ae85 | my-static-website:lates | 8080:80 | 0% | 3 days ago | |
| <input type="checkbox"/> | jenkins | a20ffa96d4b07 | jenkins/jenkins:lts | 50000:50000 ↗ | 0.31% | 6 minutes ago | |

Showing 1

Terminal

```
C:\Users\YOGENDRA> docker logs 366eb71bcf1d02c6119b0806b59ead599d75cfbcd2d332b0b047c9d72a241f53
Serving Flask app 'app' (lazy loading)
Environment: production
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
Debug mode: on
Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
Restarting with stat
Debugger is active!
Debugger PIN: 564-566-247
C:\Users\YOGENDRA>
```



Windo...

← → ↺ ⓘ 127.0.0.1:5000

To-Do List

New task

Add

- read [Delete](#)
- jogging [Delete](#)



Edit with WPS Office

To-Do List

New task

Add

- read [Delete](#)

Search

| | Name | Tag | Image ID | Created | Size | Actions |
|--------------------------|---|--------|--------------|---------------|-----------|--|
| <input type="checkbox"/> | <div><div></div>hello-world</div> | latest | d2c94e258dcb | 2 years ago | 13.25 KB | <div><div></div><div></div><div></div></div> |
| <input type="checkbox"/> | <div><div></div>registry.k8s.io/pause</div> | 3.9 | e6f181688397 | 2 years ago | 743.95 KB | <div><div></div><div></div><div></div></div> |
| <input type="checkbox"/> | <div><div></div>docker/desktop-storage-</div> | v2.0 | 99f89471f470 | 4 years ago | 41.85 MB | <div><div></div><div></div><div></div></div> |
| <input type="checkbox"/> | <div><div></div>my-static-website</div> | latest | 0e7612dd9176 | 15 minutes ag | 191.75 MB | <div><div></div><div></div><div></div></div> |

Showing 27 items

Terminal

fc77d1ffb627: Pushed

d32d820bcf1c: Mounted from library/nginx

c28e0f7d0cc5: Mounted from library/nginx

8aa4787aa17a: Mounted from library/nginx

b060cc3bd13c: Mounted from library/nginx

2c3a053d7b67: Mounted from library/nginx

fc00b055de35: Mounted from library/nginx

c0f1022b22a9: Mounted from library/nginx

latest: digest: sha256:f96febcb0c6f9354b06e16e33e973c7214099a1ae205a6b747fc008029265f81 size: 1985

PS C:\Users\YOGENDRA>

Kubernetes running

RAM 3.23 GB

CPU 2.00%

Disk 1020.15 GB avail. of 1081.10 GB

Terminal

v4.36.0



Edit with WPS Office

Containers

Images

Volumes

Builds

Docker Scout

Extensions

Containers

Container CPU usage

0.02% / 1600% (16 CPUs available)

Container memory usage

23.2MB / 7.42GB

Show charts

sha256:7f6953237a6166559

Only show running containers

| | Name | Container ID | Image | Port(s) | CPU (%) | Last started | Actions |
|--------------------------|--------------------------------|---------------|------------------|---------|---------|---------------|-------------------------------------|
| <input type="checkbox"/> | kind_gauss | cf68c00b08db7 | yogi906/flask-ap | | 0% | 8 hours ago | <div></div> <div></div> <div></div> |
| <input type="checkbox"/> | modest_euclid | bf2395312a1e | yogi906/flask-ap | | 0% | 8 hours ago | <div></div> <div></div> <div></div> |
| <input type="checkbox"/> | k8s_flask-api_11w_0x974168c8d5 | 7f6953237a6d | | | 0% | 4 minutes ago | <div></div> <div></div> <div></div> |

Terminal

docker run -p 5000:5000 flask-api

* Serving Flask app 'app.py' (lazy loading)

* Environment: production

WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.

* Debug mode: off

* Running on all addresses.

WARNING: This is a development server. Do not use it in a production deployment.

* Running on http://172.17.0.2:5000/ (Press CTRL+C to quit)

Find

Copy

Trash

Window...

| | Name | Tag | Image ID | Created | Size | Actions |
|--------------------------|-------------------------|--------|--------------|---------------|-----------|-------------------------------------|
| <input type="checkbox"/> | registry.k8s.io/pause | 3.9 | e6f181688397 | 2 years ago | 743.95 KB | <div></div> <div></div> <div></div> |
| <input type="checkbox"/> | docker/desktop-storage- | v2.0 | 99f89471f470 | 4 years ago | 41.85 MB | <div></div> <div></div> <div></div> |
| <input type="checkbox"/> | my-static-website | latest | 0e7612dd9176 | 16 minutes ag | 191.75 MB | <div></div> <div></div> <div></div> |
| <input type="checkbox"/> | yogi906/my-static-webs | latest | 0e7612dd9176 | 16 minutes ag | 191.75 MB | <div></div> <div></div> <div></div> |

Welcome to My Static Website!

Edit with WPS Office



Edit with WPS Office