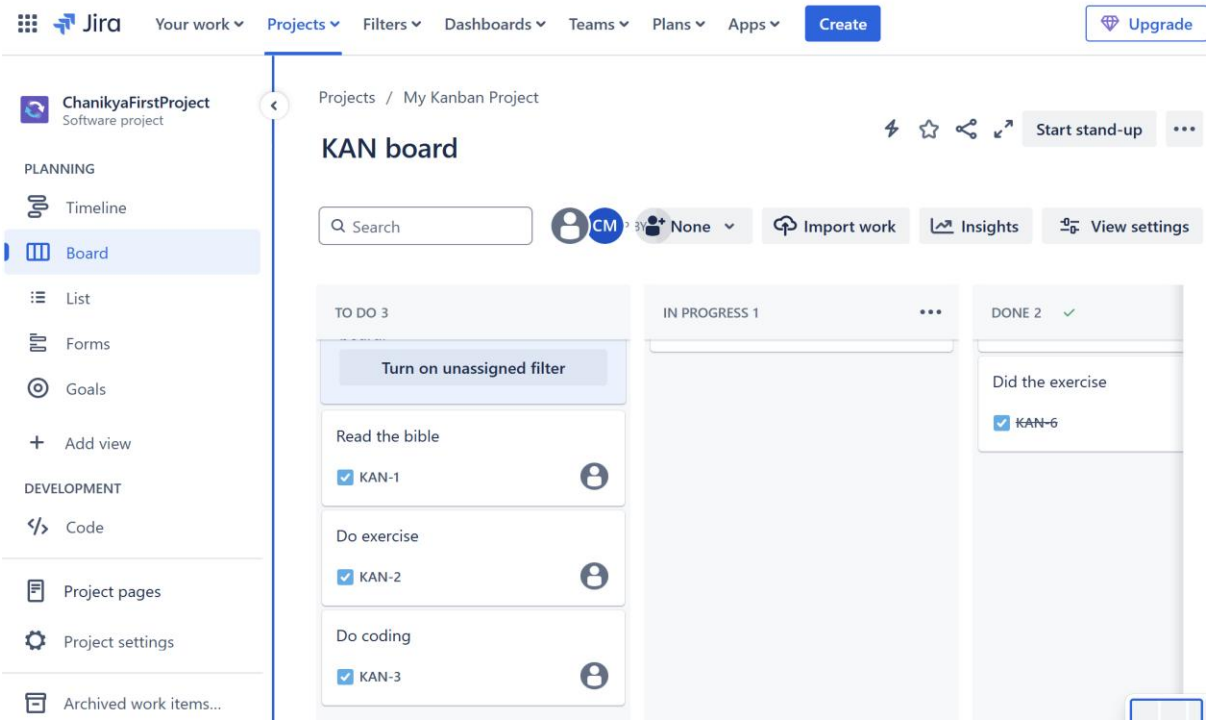
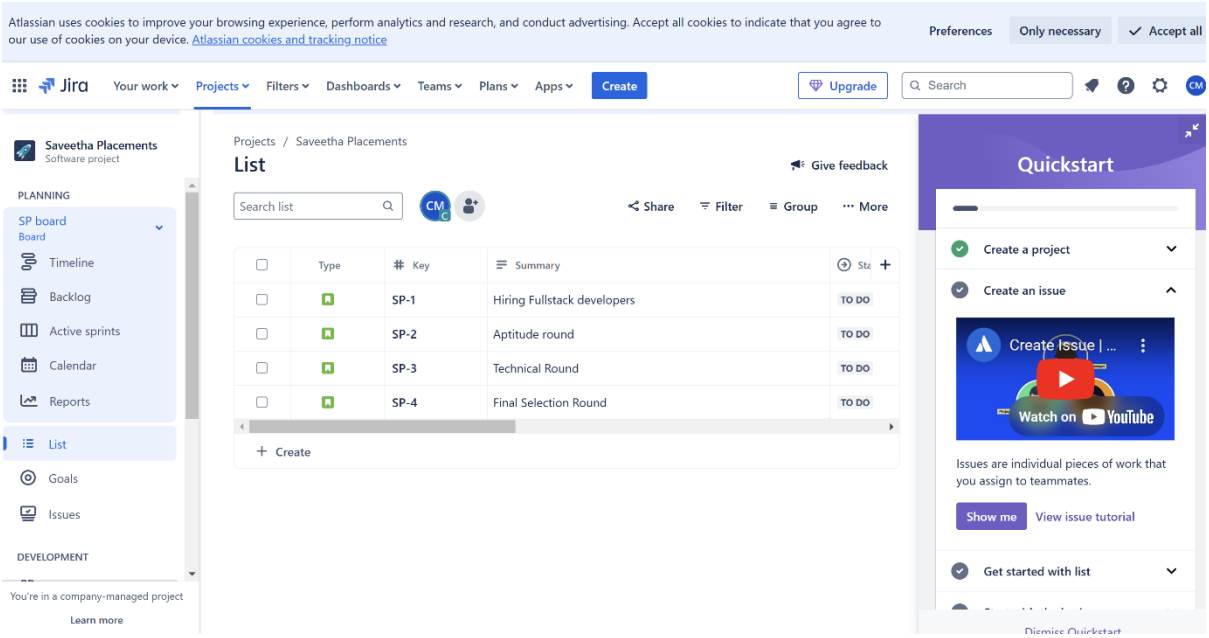
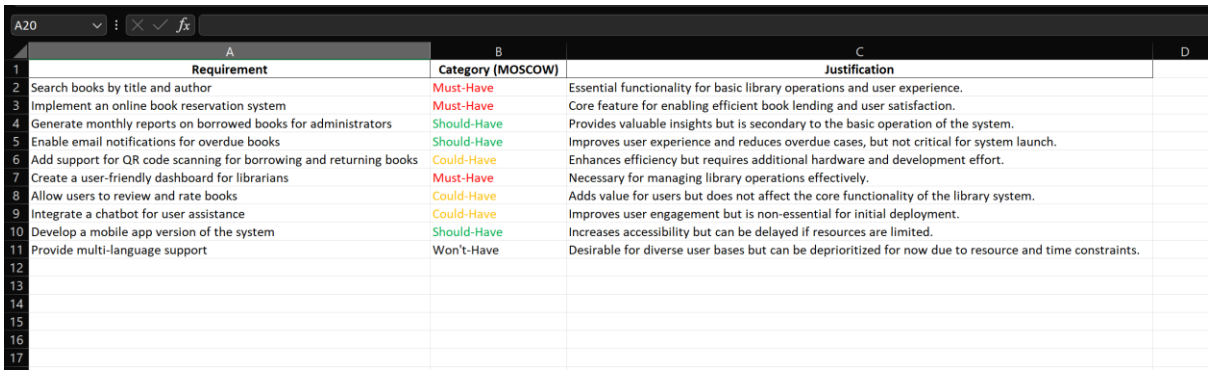
Experiment : 1



Experiment no : 2



Experiment no : 5



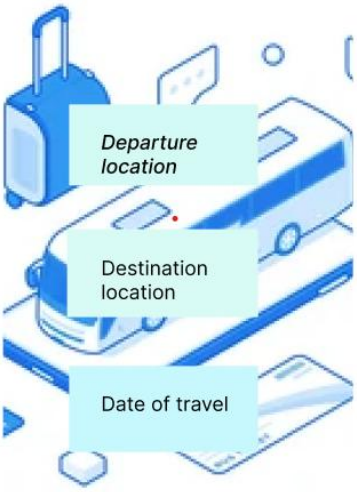
Requirement	Category (MOSCOW)	Justification
Search books by title and author	Must-Have	Essential functionality for basic library operations and user experience.
Implement an online book reservation system	Must-Have	Core feature for enabling efficient book lending and user satisfaction.
Generate monthly reports on borrowed books for administrators	Should-Have	Provides valuable insights but is secondary to the basic operation of the system.
Enable email notifications for overdue books	Should-Have	Improves user experience and reduces overdue cases, but not critical for system launch.
Add support for QR code scanning for borrowing and returning books	Could-Have	Enhances efficiency but requires additional hardware and development effort.
Create a user-friendly dashboard for librarians	Must-Have	Necessary for managing library operations effectively.
Allow users to review and rate books	Could-Have	Adds value for users but does not affect the core functionality of the library system.
Integrate a chatbot for user assistance	Could-Have	Improves user engagement but is non-essential for initial deployment.
Develop a mobile app version of the system	Should-Have	Increases accessibility but can be delayed if resources are limited.
Provide multi-language support	Won't-Have	Desirable for diverse user bases but can be deprioritized for now due to resource and time constraints.

Experiment 9 :

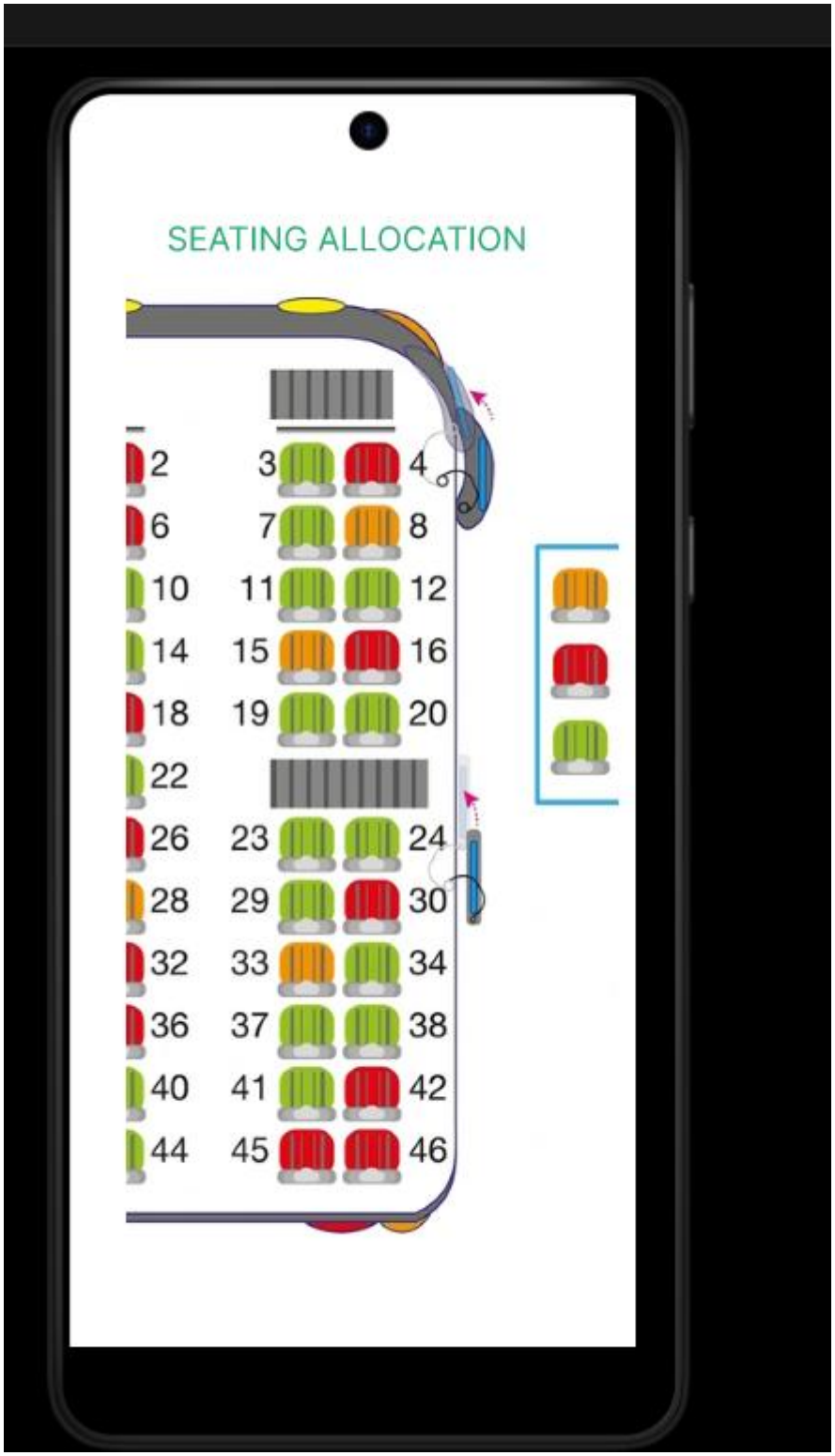
```
PS C:\Users\chani\Akash-and-team> git checkout -b feature-branch-name
Switched to a new branch 'feature-branch-name'
PS C:\Users\chani\Akash-and-team> git add .
PS C:\Users\chani\Akash-and-team> git commit -m "Your descriptive commit
 message"
Author identity unknown

*** Please tell me who you are.

Run

  git config --global user.email "you@example.com"
  git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'chani@Asus.(none)')
PS C:\Users\chani\Akash-and-team> git config --global user.name "Chaniky
aMysur"
PS C:\Users\chani\Akash-and-team> git config --global user.email "chanik
yamysur@gamil.com"
PS C:\Users\chani\Akash-and-team>
PS C:\Users\chani\Akash-and-team> git config --global user.email "chanik
yamysur@gmail.com"
PS C:\Users\chani\Akash-and-team> git config --global --list
user.name=ChanikyaMysur
user.email=chanikyamysur@gmail.com
PS C:\Users\chani\Akash-and-team> git commit -m "Your descriptive commit
 message"
On branch feature-branch-name
nothing to commit, working tree clean
PS C:\Users\chani\Akash-and-team> git status
On branch feature-branch-name
nothing to commit, working tree clean
```

Experiment 2:

BUS TICKET BOOKING



SOURCE
DESTINATION
DATE
BUSES AVAILABLE
BUS NO/TIMINGS/FARE/SEATS AVAILABLE
BUS NO/TIMINGS/FARE/SEATS AVAILABLE
BUS NO/TIMINGS/FARE/SEATS AVAILABLE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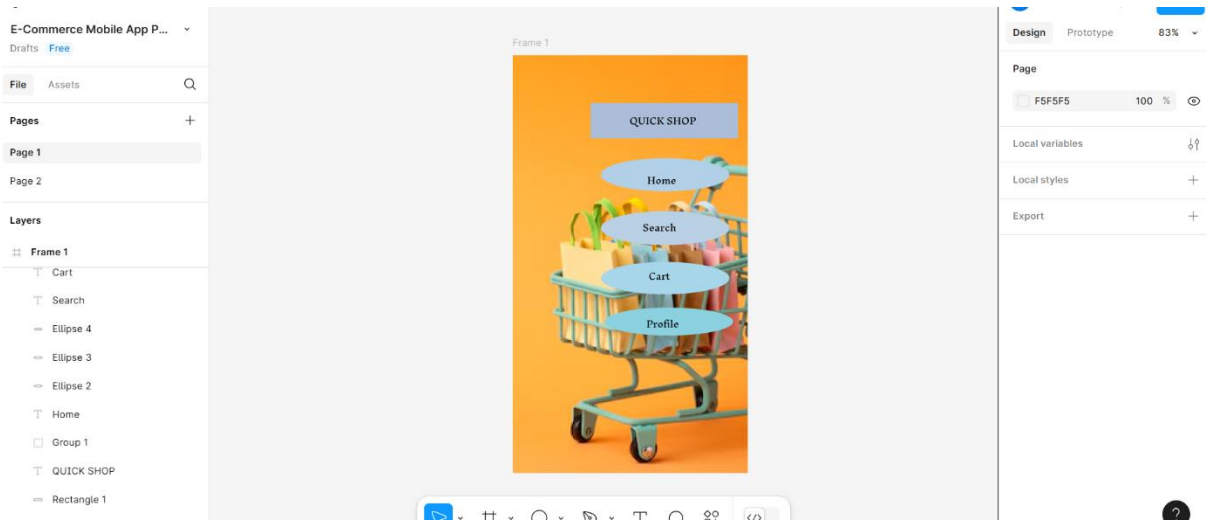
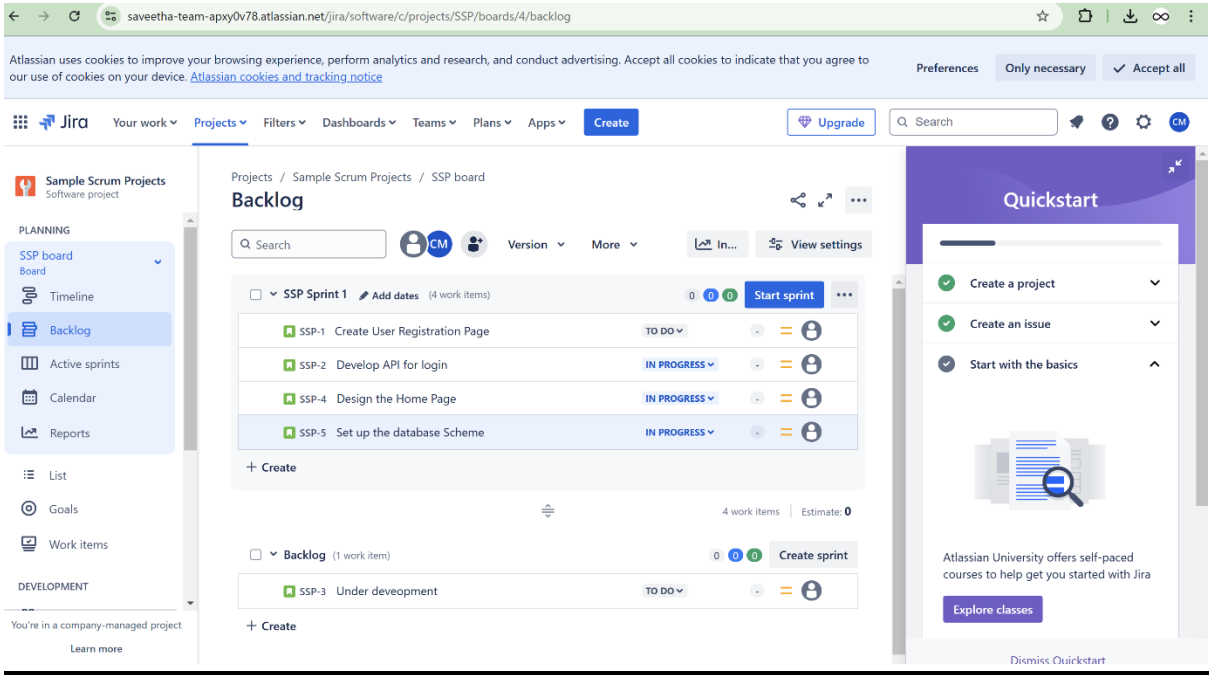
Experiment 3:

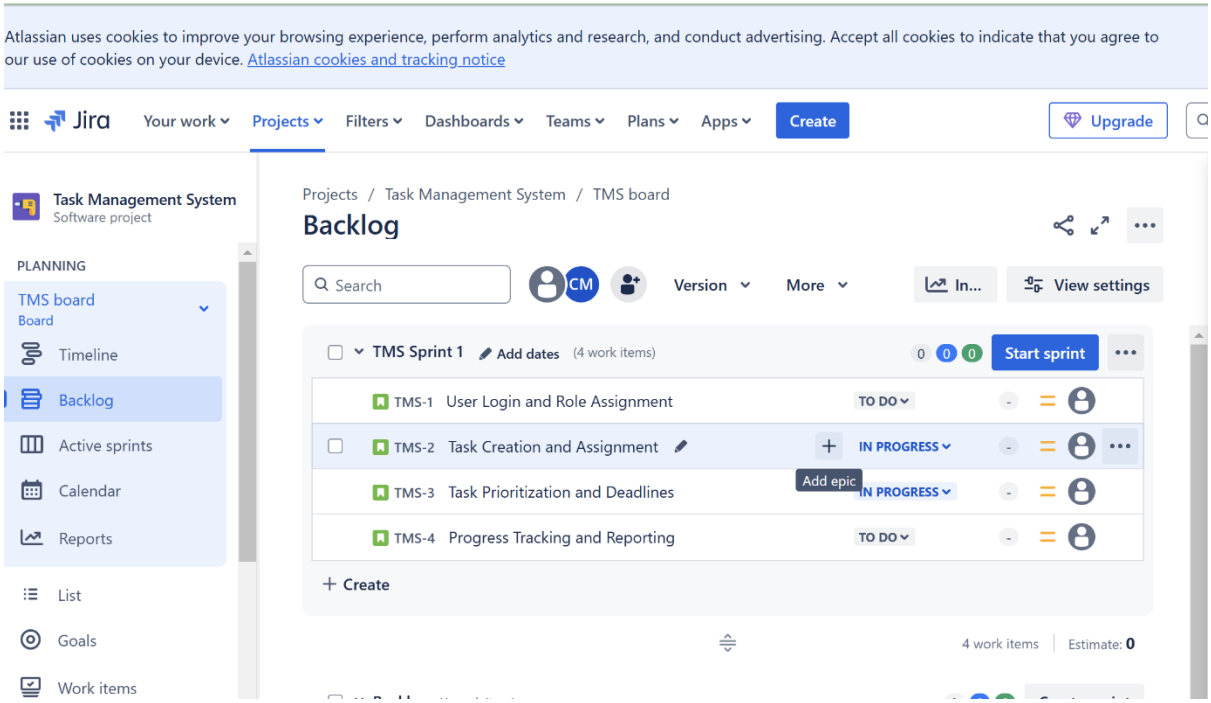


Experiment 4:

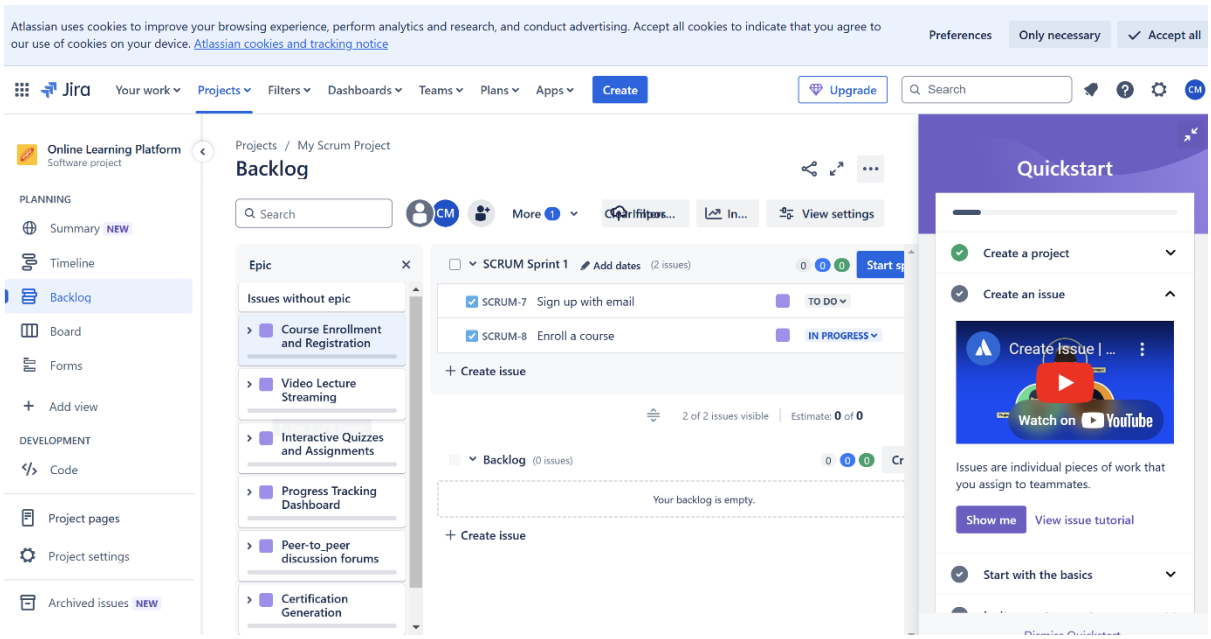


Experiment 6:

Experiment : 7



Experiment 8:



Experiment 11:

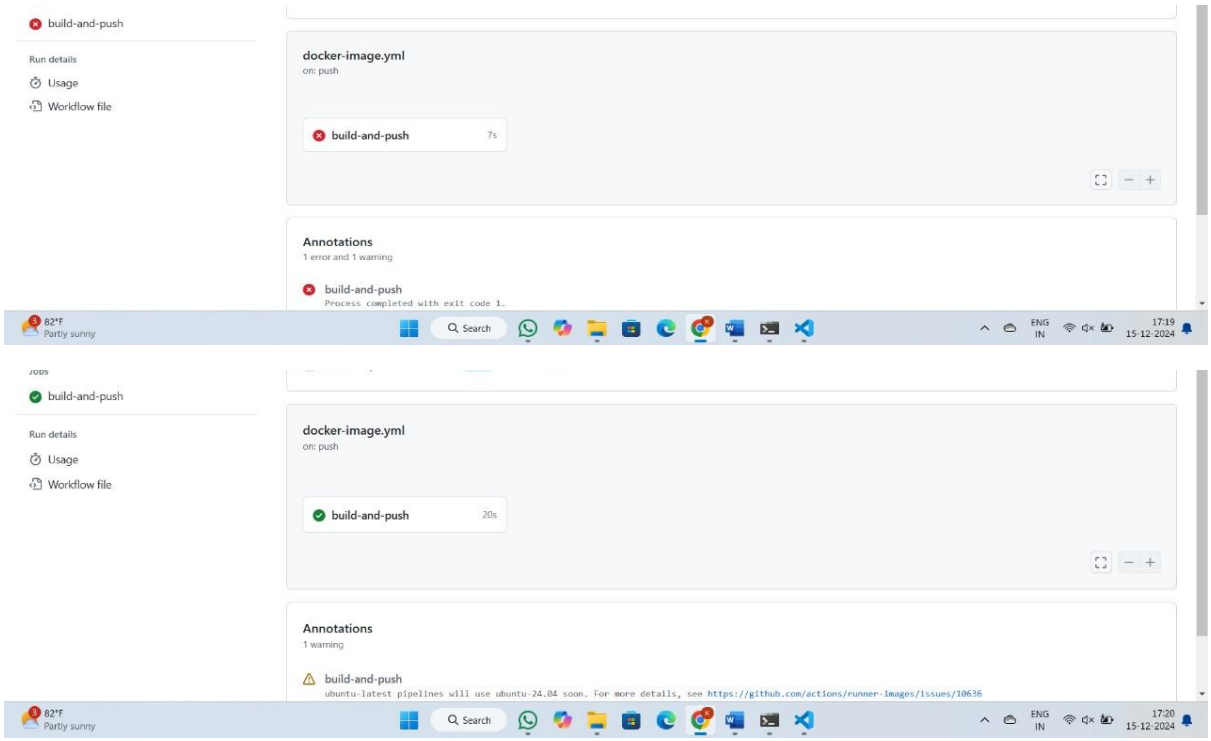
index.html > ...

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Static Website</title>
</head>
<body>
    <h1>Welcome to My Static Website</h1>
    <p>This website is served using Nginx in a Docker container!</p>
</body>
</html>
```

MyDockerfile.dockerfile > ...

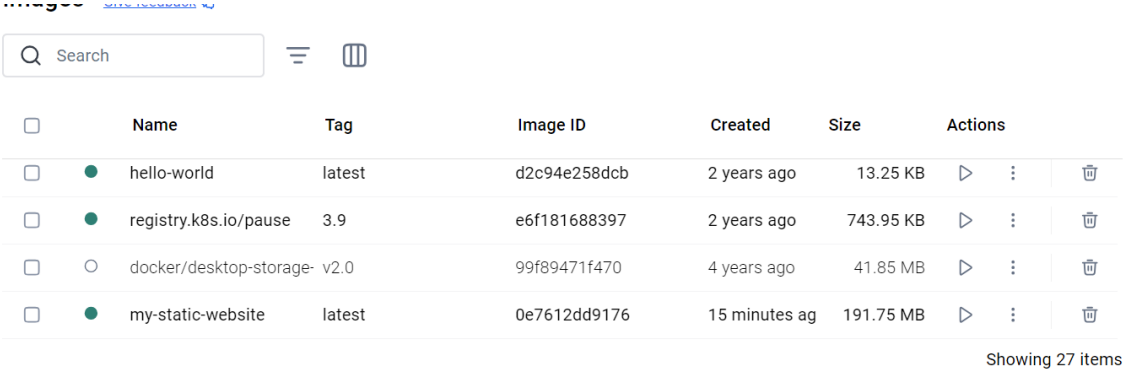
```
# Use the official Nginx image as the base image
FROM nginx:latest

# Copy the static website files into the Nginx HTML directory
COPY ./index.html /usr/share/nginx/html/index.html

# Expose port 80 to allow web traffic
EXPOSE 80

# Start the Nginx server
CMD ["nginx", "-g", "daemon off;"]
```

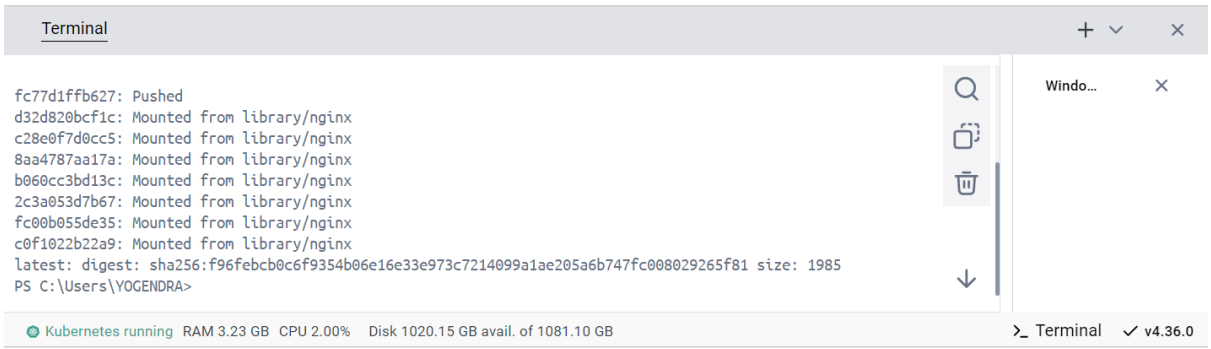
Experiment 14:

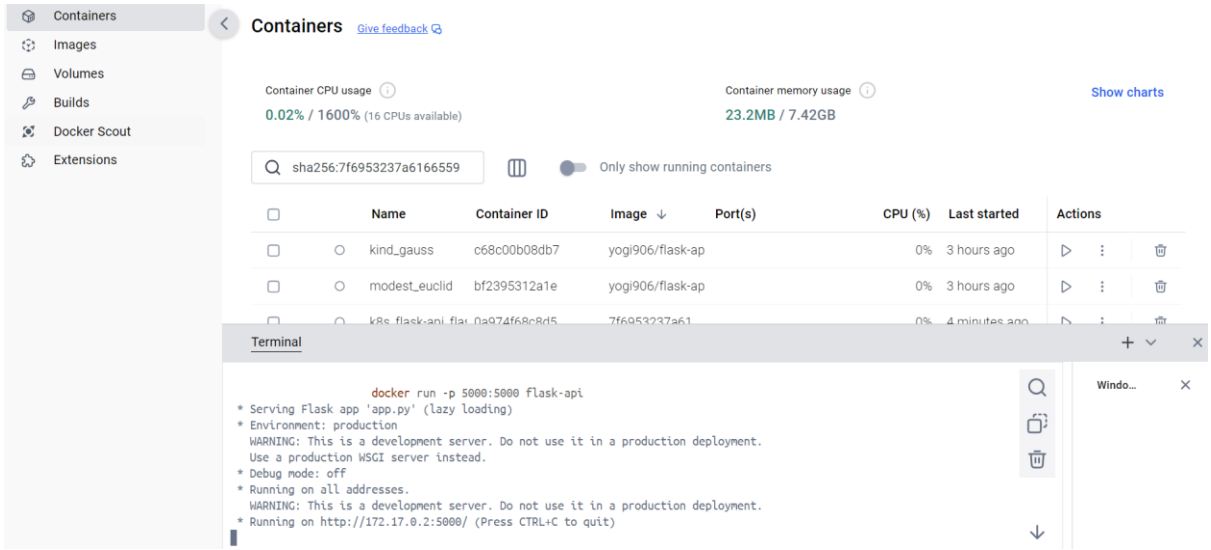


Experiment 17:

Welcome to My Static Website!


Search
Name
Tag
Image ID
Created
Size
Actions
hello-world latest d2c94e258dcb 2 years ago 13.25 KB
registry.k8s.io/pause 3.9 e6f181688397 2 years ago 743.95 KB
docker/desktop-storage- v2.0 99f89471f470 4 years ago 41.85 MB
my-static-website latest 0e7612dd9176 15 minutes ag 191.75 MB
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>
Windo...
Kubernetes running RAM 3.23 GB CPU 2.00% Disk 1020.15 GB avail. of 1081.10 GB
Terminal
v4.36.0


Containers
Images
Volumes
Builds
Docker Scout
Extensions
Containers
Give feedback
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
kind_gauss c68c00b08db7 yogi906/flask-ap 0% 3 hours ago
modest_euclid bf2395312a1e yogi906/flask-ap 0% 3 hours ago
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)
Windo...