

1.

EXPERIMENT-1

The screenshot displays the Jira interface for a project named 'SEPROJECT'. The top navigation bar includes 'Your work', 'Projects', 'Filters', 'Dashboards', 'Teams', 'More', and a 'Create' button. A 'Premium trial' badge and a search bar are also present. The left sidebar shows the project's navigation menu with options like 'Timeline', 'Board' (selected), 'List', 'Forms', 'Goals', 'Add view', 'DEVELOPMENT', 'Code', 'Project pages', and 'Project settings'. The main area is titled 'KAN board' and shows three columns: 'TO DO 3', 'IN PROGRESS 1', and 'DONE 1'. Each column contains task cards with titles, checkboxes, and user avatars. A 'Quickstart' button is located in the bottom right corner.

Projects / SEPROJECT

KAN board

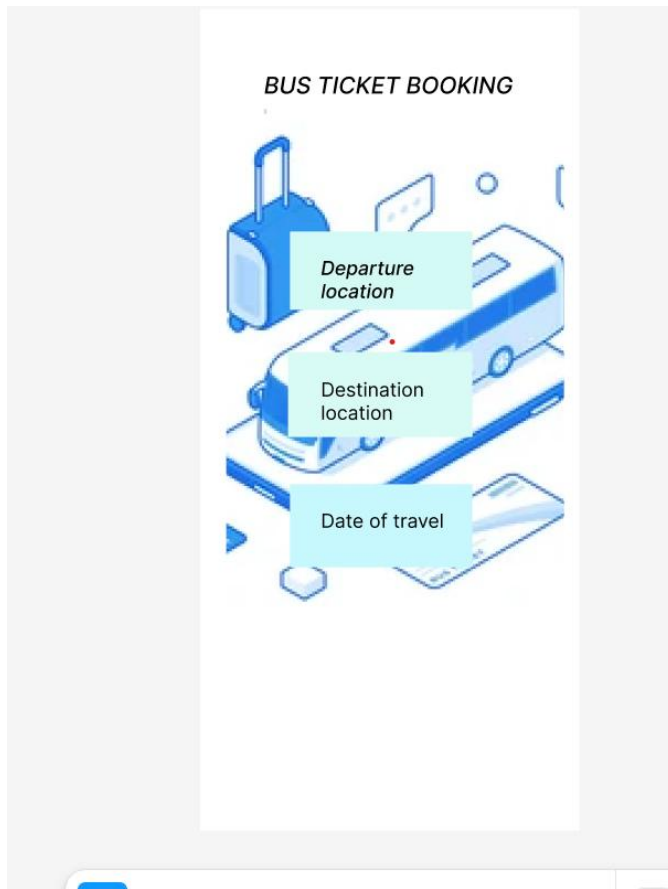
Q Search

GROUP BY None

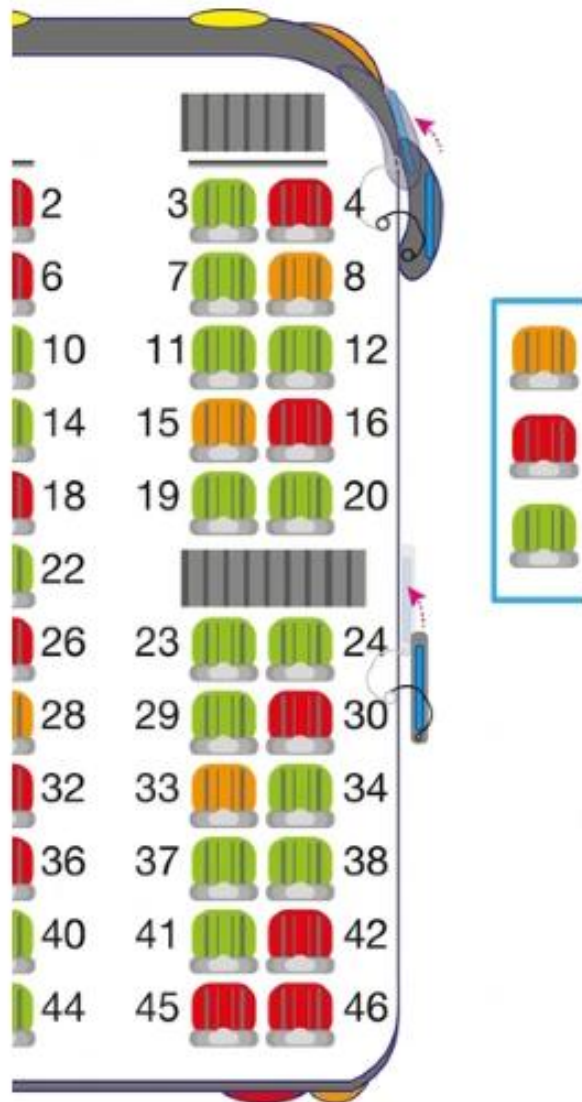
TO DO 3	IN PROGRESS 1	DONE 1
lab experiment 1 ✓ KAN-1	interface page ✓ KAN-3	testing ✓ KAN-4
kubernetes download ✓ KAN-2		
scrum project in jira ✓ KAN-5		

Quickstart

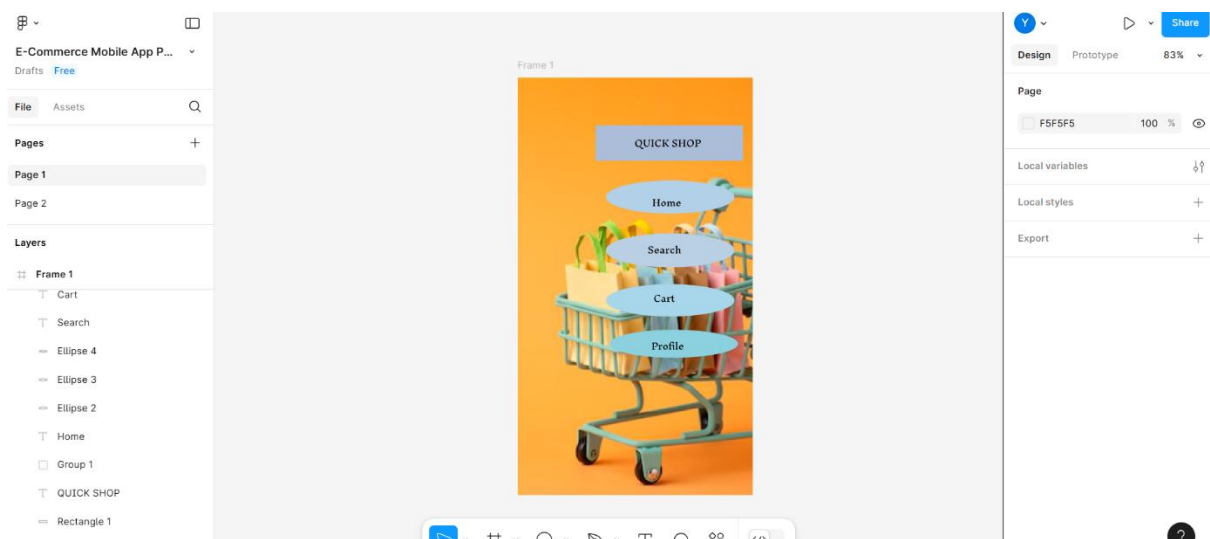
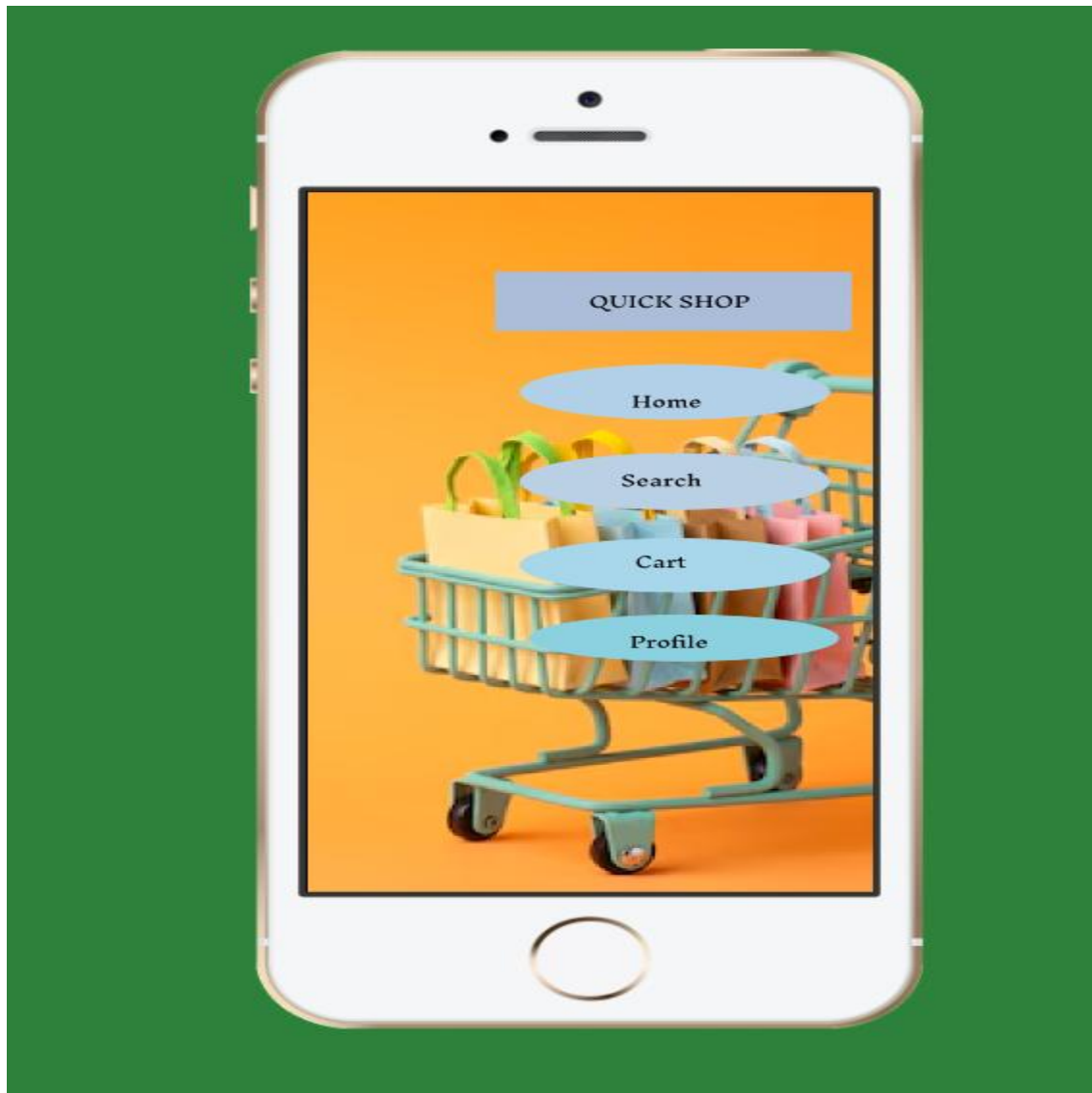
2.EXPERIMENT 2



SEATING ALLOCATION



EXPERIMENT 3:



EXPERIMENT-4

Jira

Your work

Projects

Filters

Dashboards

Teams

Plans

Apps

Create

Premium trial

Q Search

experiment3

Software project

PLANNING

Timeline

Backlog

Board

Forms

Add view

DEVELOPMENT

Code

Project pages

Project settings

Projects / experiment3

EX Sprint 1

is develop API page with given tasks

4 days

Complete sprint

Q Search

YB

GROUP BY

None

TO DO 7

IN PROGRESS

DONE ✓

Design the homepage layout.

EX-5

develop api for login page

EX-3

create user registration page

EX-2

Quickstart

EX Sprint 1

is develop API page with given tasks

4 days

Complete sprint

Q Search

YB

GROUP BY

None

TO DO

IN PROGRESS 4

DONE 2 ✓

+ Create issue

Design the homepage layout.

EX-5

develop api for login page

EX-3

Implement password reset functionality.

EX-6

Test user authentication.

create user reigstration page

EX-1

create the database

EX-4

Quickstart

[illegible][illegible]

EXPERIMENT-6:

Company hub

Home

Recent

Spaces

Teams

Apps

Templates

Create

Confluence

Upgrade

Search

Write

Record

Yogendra Sahasrabudhi

Library Management System Project Overview

Normal text

12

13

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Library Management System Project Overview

This page provides an overview of the Library Management System development, including tasks, progress tracking, and current statuses.

Summary	Assignee	Priority	Status	Updated
Miscellaneous		Medium	Not Started	Dec 14, 2024, 22:57
Implement a feature for advanced analytics on user d...		Medium	Not Started	Dec 14, 2024, 23:02
QR code scanning for borrowing and returning books		Medium	Not Started	Dec 14, 2024, 23:02
Develop a mobile app version of the system		Medium	Not Started	Dec 14, 2024, 23:02
Integrate a chatbot for user assistance		Medium	In Progress	Dec 14, 2024, 23:03
Multi-language support		Medium	In Progress	Dec 14, 2024, 23:03
Allow users to review and rate books		Medium	In Progress	Dec 14, 2024, 23:03
Create a user-friendly dashboard for librarians		Medium	Done	Dec 14, 2024, 23:03
Enable email notifications for overdue books		Medium	Done	Dec 14, 2024, 23:03
Generate monthly reports on borrowed books for ad...		Medium	Done	Dec 14, 2024, 23:03
Online book reservation system		Medium	Done	Dec 14, 2024, 23:03
Search books by title and author		Medium	Done	Dec 14, 2024, 23:03

12 items

Synced 5 minutes ago

Chart

Yogendra Sahasrabudhi

Library Management System Project Overview

Normal text

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Develop a mobile app version of the system		Medium	Not Started	Dec 14, 2024, 23:02
Integrate a chatbot for user assistance		Medium	In Progress	Dec 14, 2024, 23:03
Multi-language support		Medium	In Progress	Dec 14, 2024, 23:03
Allow users to review and rate books		Medium	In Progress	Dec 14, 2024, 23:03
Create a user-friendly dashboard for librarians		Medium	Done	Dec 14, 2024, 23:03
Enable email notifications for overdue books		Medium	Done	Dec 14, 2024, 23:03
Generate monthly reports on borrowed books for ad...		Medium	Done	Dec 14, 2024, 23:03
Online book reservation system		Medium	Done	Dec 14, 2024, 23:03
Search books by title and author		Medium	Done	Dec 14, 2024, 23:03

12 items

Synced 10 minutes ago

Chart

Task	Status	Percentage
Develop book search	Done	100
Create user login page	In Progress	50
Design book catalog interface	To Do	0

EXPERIMENT:7

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PreferencesOnly necessaryAccept all

JiraYour workProjectsFiltersDashboardsTeamsPlansAppsCreatePremium trialQ Search

experiment 7Software project

PLANNINGTimelineBoardListFormsAdd viewDEVELOPMENTCodeProject pagesProject settingsArchived issuesNEW

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 ✓

JiraYour workProjectsFiltersDashboardsTeamsPlansAppsCreatePremium trialQ Search

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-8:

cookies on your device. [Atlassian cookies and tracking notice](#)

Jira

Your work

Projects

Filters

Dashboards

Teams

Plans

Apps

Create

Premium trial

Q Search

🔔

?

⚙️

18

experiment8

Software project

PLANNING

Timeline

Backlog

Board

Forms

+ Add view

DEVELOPMENT

Code

Project pages

Project settings

Archived issues NEW

Projects / experiment8

XPRMNT8 Sprint 1

🕒 5 days

⚡

☆

🔗

📄

Complete sprint

⋮

Q Search

👤 YB

👤

Label

GROUP BY

None

📊 Insights

⚙️ View settings

TO DO 6

IN PROGRESS

DONE ✓

Course Enrollment and Registration

Basic-Need Must-Have

☑️ XPRMNT8-1

👤

Video Lecture Streaming

Performance-Need Must-Have

☑️ XPRMNT8-2

👤

Interactive Quizzes and Assignments

Performance-Need Should-Have

👤

Jira

Your work

Projects

Filters

Dashboards

Teams

Plans

Apps

Create

Premium trial

Q Search

🔔

?

⚙️

18

experiment8

Software project

PLANNING

Timeline

Backlog

Board

Forms

+ Add view

DEVELOPMENT

Code

Project pages

Project settings

Archived issues NEW

Projects / experiment8

XPRMNT8 Sprint 1

🕒 5 days

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☆

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Complete sprint

⋮

Q Search

👤 YB

👤

Label

GROUP BY

None

📊 Insights

⚙️ View settings

TO DO

IN PROGRESS 3

DONE 3 ✓

Performance-Need Should-Have

☑️ XPRMNT8-4

👤

Certificate Generation

Performance-Need Should-Have

☑️ XPRMNT8-6

👤

Peer-to-Peer Discussion Forums

Could-Have Excitement-Need

☑️ XPRMNT8-5

👤

Registration

Basic-Need Must-Have

☑️ XPRMNT8-1

✓

👤

Video Lecture Streaming

Perf Video Lecture Streaming Have

☑️ XPRMNT8-2

✓

👤

Interactive Quizzes and Assignments

Performance-Need Should-Have

☑️ XPRMNT8-3

✓

👤

EXPERIMENT-9

```
C:\Users\regon>docker pull jenkins/jenkins:lts
lts: Pulling from jenkins/jenkins
d0238388e632: Download complete
b2b31b28ee3c: Download complete
66714a60a07a: Download complete
8d5cd706e369: Download complete
e37c8a6ald29: Download complete
768595d27f0b: Download complete
e1d3077f0c0c: Download complete
0867b45f78b4: Download complete
9e6f96481dc6: Download complete
1944ded7dbca: Download complete
2902ddfaf8af: Download complete
37b0412849e4: Download complete
Digest: sha256:e728082cd6a2710840ef7d9fdcdc93408eb488aa05d10bc92f4454254e22cc4e
Status: Downloaded newer image for jenkins/jenkins:lts
docker.io/jenkins/jenkins:lts

C:\Users\regon>docker run -d -p 8080:8080 -p 50000:50000 --name jenkins -vjenkins_home:/var/jenkins_home -v //var/run/do
cker.sock:/var/run/docker.sockjenkins/jenkins:lts
"docker run" requires at least 1 argument.
See 'docker run --help'.

Usage:  docker run [OPTIONS] IMAGE [COMMAND] [ARG...]

Create and run a new container from an image

C:\Users\regon>
```

found in the container logs: **docker logs jenkins**

Step 4: Install Required Plugins

09:35 07-12-2024

```
Microsoft Windows [Version 10.0.26100.2454]
(c) Microsoft Corporation. All rights reserved.

C:\Users\regon>docker pull jenkins/jenkins:lts
error during connect: Post "http://%2F%2F.%2Fpipe%2FdockerDesktopLinuxEngine/v1.47/images/create?fromImage=jenkins%2Fjenkins&tag=lts": open //./pipe/dockerDesktopLinuxEngine: The system cannot find the file specified.

C:\Users\regon>
```

08:46 07-12-2024

Experiment:10

```
MINGW64/C:/Users/regon/OneDrive/Documents/git-workshop-template[1]/git-workshop-template
$ tree objects: 100% (26/26), 3.63 KiB | 372.00 KiB/s, done.
    commit 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 branch --set-upstream-to=origin/main main
$ git push origin feature/task1
remote: Enumerating objects: 11, done.
remote: Counting objects: 100% (11/11), done.
remote: Compressing objects: 100% (6/6), done.
remote: Writing objects: 100% (6/6), 580 bytes | 145.00 KiB/s, done.
remote: 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
To https://github.com/regondamaruthi123/git-workshop.git
 * [new branch]      feature/task1 -> feature/task1
```

```

C:\Users\regon\OneDrive\Documents\git-workshop-template[1]\git-workshop-template
regon@RegondaMaruthi MINGW64 ~/OneDrive/Documents/git-workshop-template[1]\git-w
rkshop-template (master)
$ cd c:/git-workshop-template
bash: cd/c/git-workshop-template: No such file or directory

regon@RegondaMaruthi MINGW64 ~/OneDrive/Documents/git-workshop-template[1]\git-w
rkshop-template (master)
$ git init
Initialized empty Git repository in C:/Users/regon/OneDrive/Documents/git-worksh
op-template[1]\git-workshop-template/.git/

regon@RegondaMaruthi MINGW64 ~/OneDrive/Documents/git-workshop-template[1]\git-w
rkshop-template (master)
$ git config --global username regondamaruthi123
error: key does not contain a section: username regondamaruthi123

regon@RegondaMaruthi MINGW64 ~/OneDrive/Documents/git-workshop-template[1]\git-w
rkshop-template (master)
$ git config --global user.name regondamaruthi123

regon@RegondaMaruthi MINGW64 ~/OneDrive/Documents/git-workshop-template[1]\git-w
rkshop-template (master)
$ git config --global user.email regondamaruthi@gmail.com

regon@RegondaMaruthi MINGW64 ~/OneDrive/Documents/git-workshop-template[1]\git-w
rkshop-template (master)
$ git remote add origin https://github.com/regondamaruthi123/git-workshop.git

regon@RegondaMaruthi MINGW64 ~/OneDrive/Documents/git-workshop-template[1]\git-w
rkshop-template (master)
$ git add
warning: in the working copy of '.github/ISSUE_TEMPLATE/task_request.md', LF will
be replaced by CRLF the next time Git touches it
warning: in the working copy of '.github/PULL_REQUEST_TEMPLATE.md', LF will be r
eplaced by CRLF the next time Git touches it
warning: in the working copy of '.github/workflows/ci.yml', LF will be replaced
by CRLF the next time Git touches it
warning: in the working copy of 'CONTRIBUTING.md', LF will be replaced by CRLF t
he next time Git touches it
warning: in the working copy of 'LICENSE', LF will be replaced by CRLF the next
time Git touches it
warning: in the working copy of 'README.md', LF will be replaced by CRLF the nex
t time Git touches it
warning: in the working copy of 'docs/branching-strategies.md', LF will be repla
ced by CRLF the next time Git touches it
warning: in the working copy of 'docs/git-commands-cheatsheet.md', LF will be re
placed by CRLF the next time Git touches it
warning: in the working copy of 'docs/setup-guide.md', LF will be replaced by CR
LF the next time Git touches it
warning: in the working copy of 'tasks/case-study-1/README.md', LF will be repla
ced by CRLF the next time Git touches it
warning: in the working copy of 'tasks/case-study-1/calculator/calculator.py', L
F will be replaced by CRLF the next time Git touches it

```

```
MINGW64/c:/Users/regon/OneDrive/Documents/git-workshop-template[1]/git-workshop-template
regon@RegondaMaruthi MINGW64 ~/OneDrive/Documents/git-workshop-template[1]/git-w
orkshop-template (master)
$ git commit -m "Initial commit with workshop template"
[master (root-commit) 8cd324d] Initial commit with workshop template
16 files changed, 147 insertions(+)
create mode 100644 .github/ISSUE_TEMPLATE/task_request.md
create mode 100644 .github/PULL_REQUEST_TEMPLATE.md
create mode 100644 .github/workflows/ci.yml
create mode 100644 CONTRIBUTING.md
create mode 100644 LICENSE
create mode 100644 README.md
create mode 100644 docs/branching-strategies.md
create mode 100644 docs/git-commands-cheatsheet.md
create mode 100644 docs/setup-guide.md
create mode 100644 tasks/case-study-1/README.md
create mode 100644 tasks/case-study-1/calculator/calculator.py
create mode 100644 tasks/case-study-1/calculator/test_calculator.py
create mode 100644 tasks/task1/README.md
create mode 100644 tasks/task1/solution.md
create mode 100644 tasks/task2/README.md
create mode 100644 tasks/task2/solution.md
regon@RegondaMaruthi MINGW64 ~/OneDrive/Documents/git-workshop-template[1]/git-w
orkshop-template (master)
$ git branch -M main
regon@RegondaMaruthi MINGW64 ~/OneDrive/Documents/git-workshop-template[1]/git-w
orkshop-template (main)
$ git push -u origin main
remote: Repository not found.
fatal: repository 'https://github.com/regondamaruthi123/git-workshop.git/' not f
ound
regon@RegondaMaruthi MINGW64 ~/OneDrive/Documents/git-workshop-template[1]/git-w
orkshop-template (main)
$ git push -u origin main
fatal: User cancelled dialog.
remote: Support for password authentication was removed on August 13, 2021.
remote: Please see https://docs.github.com/get-started/getting-started-with-git/
about-remote-repositories#configuring-with-https-urls for information on currently r
ecommended modes of authentication.
fatal: Authentication failed for 'https://github.com/regondamaruthi123/git-works
regon@RegondaMaruthi MINGW64 ~/OneDrive/Documents/git-workshop-template[1]/git-workshop-template (feature/task1)
$
regon@RegondaMaruthi MINGW64 ~/OneDrive/Documents/git-workshop-template[1]/git-w
orkshop-template (feature/task1)
regon@RegondaMaruthi MINGW64 ~/OneDrive/Documents/git-workshop-template[1]/git-w
orkshop-template (feature/task1)
$ git push -u origin main
info: please complete authentication in your browser...
regon@RegondaMaruthi MINGW64 ~/OneDrive/Documents/git-workshop-template[1]/git-workshop-template (feature/task1)
$
untzing objects: 100% (26/26), done.
Delta compression using up to 12 threads
regon@RegondaMaruthi MINGW64 ~/OneDrive/Documents/git-workshop-template[1]/git-workshop-template (feature/task1)
$
tting objects: 100% (26/26), 3.63 KiB | 372.00 KiB/s, done.
```

Experiment: 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 |
```

➤ MyDockerfile.dockerfile > ...

```
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 |
```

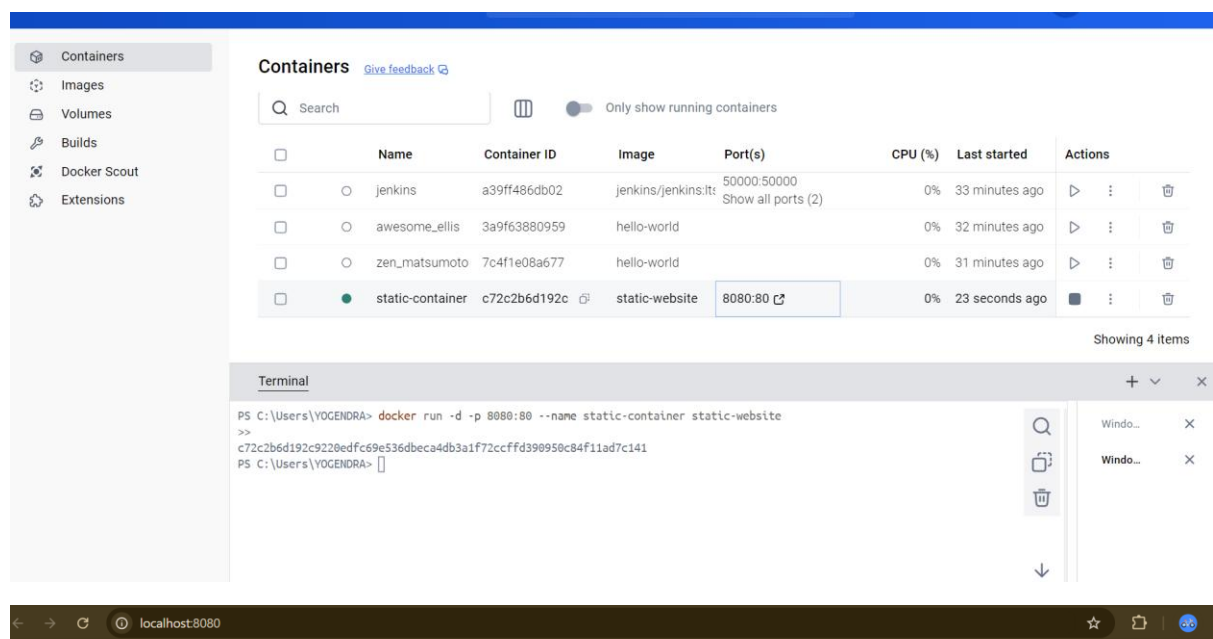
```
Microsoft Windows [Version 10.0.26100.2605]
(c) Microsoft Corporation. All rights reserved.

C:\Users\VOGENDRA\softwareengineering>docker build -t static-website .

[+] Building 12.5s (10/10) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 183B
=> [internal] load metadata for docker.io/library/python:3.9-slim
=> [internal] load .dockerignore
=> => transferring context: 2B
=> CACHED [1/5] FROM docker.io/library/python:3.9-slim
=> [internal] load build context
=> => transferring context: 31.31kB
=> [2/5] WORKDIR /app
=> [3/5] COPY requirements.txt .
=> [4/5] RUN pip install -r requirements.txt
=> [5/5] COPY . .
=> exporting to image
=> => exporting layers
=> => writing image sha256:e8d66a206a221ee8bfbaa5e1a0567d03cc60cb35780686971dc1ab54feb1bd20
=> => naming to docker.io/library/static-website

View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/pp2k5oz6tzt5uc6i7gfn8va7s

C:\Users\VOGENDRA\softwareengineering>
```



Welcome to My Static Website

this is yogendra

This website is served using Nginx in a Docker container!

Experiment: 12...

```
Microsoft Windows [Version 10.0.26100.2605]
(c) Microsoft Corporation. All rights reserved.

C:\Users\YOGENDRA\softwareengineering>docker build -t flask-api .
[+] Building 211.6s (10/10) FINISHED                                docker:desktop-linux
=> [internal] load build definition from Dockerfile                  0.0s
=> => transferring dockerfile: 562B                                  0.0s
=> [internal] load metadata for docker.io/library/python:3.8-slim   10.7s
=> [auth] library/python:pull token for registry-1.docker.io        0.0s
=> [internal] load .dockerignore                                     0.0s
=> => transferring context: 2B                                         0.0s
=> [1/4] FROM docker.io/library/python:3.8-slim@sha256:1d52838af602b4b5a831beb13a0e4d073280665ea7be7f69ce2382f  192.3s
=> => resolve docker.io/library/python:3.8-slim@sha256:1d52838af602b4b5a831beb13a0e4d073280665ea7be7f69ce2382f29  0.0s
=> => sha256:302e3ee498053a7b5332ac79e8efebec16e900289fc1ecd1c754ce8fa047fcab 29.13MB / 29.13MB 189.6s
=> => sha256:030d7bdc20a63e3d22192b292d006a69fa3333949f536d62865d1bd0506685cc 3.51MB / 3.51MB 22.0s
=> => sha256:a3f1dfe736c5f959143f23d75ab522a60be2da902efac236f4fb2a153cc14a5d 14.53MB / 14.53MB 72.4s
=> => sha256:1d52838af602b4b5a831beb13a0e4d073280665ea7be7f69ce2382f29c5a613f 10.41kB / 10.41kB 0.0s
=> => sha256:314bc2fb0714b7807bf5699c98f0c73817e579799f2d91567ab7e9510f5601a5 1.75kB / 1.75kB 0.0s
=> => sha256:b5f62925bd0f63f48cc8acd5e87d0c3a07e2f229cd2fb0a9586e68ed17f45ee3 5.25kB / 5.25kB 0.0s
=> => sha256:3971691a363796c39467aae4cdce6ef773273fe6bfc67154d01e1b589befb912 248B / 248B 22.6s
=> => extracting sha256:302e3ee498053a7b5332ac79e8efebec16e900289fc1ecd1c754ce8fa047fcab 1.4s
=> => extracting sha256:030d7bdc20a63e3d22192b292d006a69fa3333949f536d62865d1bd0506685cc 0.2s
=> => extracting sha256:a3f1dfe736c5f959143f23d75ab522a60be2da902efac236f4fb2a153cc14a5d 0.7s
=> => extracting sha256:3971691a363796c39467aae4cdce6ef773273fe6bfc67154d01e1b589befb912 0.0s
=> [internal] load build context                                     0.1s
=> => transferring context: 2.85kB                                     0.0s
=> [2/4] WORKDIR /app                                              0.5s
=> [3/4] COPY . /app                                               0.1s
=> [4/4] RUN pip install --no-cache-dir -r requirements.txt       7.6s
=> exporting to image                                              0.1s
=> => exporting layers                                              0.1s
=> => writing image sha256:7f6953237a6166559693124330d5bcaedca80beea033c13faf647d04c42d8379 0.0s
=> => naming to docker.io/library/flask-api                          0.0s

View build details: docker-desktop:///dashboard/build/desktop-linux/desktop-linux/8f53gp4wj6t03oqzh8qvoilgx

C:\Users\YOGENDRA\softwareengineering>
C:\Users\YOGENDRA\softwareengineering>
```

Search

Only show running containers

	Name	Container ID	Image	Port(s)	CPU (%)	Last started	Actions
<input type="checkbox"/>	<input type="radio"/> jenkins	a39ff486db02	jenkins/jenkins:lts	50000:50000 Show all ports (2)	N/A	51 minutes ago	<div><div></div><div>:</div><div></div></div>
<input type="checkbox"/>	<input type="radio"/> awesome_ellis	3a9f63880959	hello-world		N/A	50 minutes ago	<div><div></div><div>:</div><div></div></div>
<input type="checkbox"/>	<input type="radio"/> zen_matsumoto	7c4f1e08a677	hello-world		N/A	48 minutes ago	<div><div></div><div>:</div><div></div></div>
<input type="checkbox"/>	<input type="radio"/> static-container	c72c2b6d192c	static-website	8080:80	N/A	18 minutes ago	<div><div></div><div>:</div><div></div></div>

Showing 4 items

Terminal

docker tag flask-api yogi906/flask-api:v1

PS C:\Users\YOGENDRA> docker push yogi906/flask-api:v1

The push refers to repository [docker.io/yogi906/flask-api]

feafcd3ca26: Pushing [=====>] 7.742MB/10.15MB

f3d97168cfcc: Retrying in 1 second

ce2afc482144: Retrying in 1 second

d2a2207b52a4: Pushed

5d2d143f3d7f: Pushing [=====>] 6.754MB/40.71MB

c3772b569c3a: Pushing [=====>] 3.555MB/9.238MB

8d853c8add5d: Waiting

Windo... X

Windo... X

Experiment: 16...

```
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/t9b7ucv0pk23fvtfhhb60bpb5p

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](#)

Q 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>
```



Windo...



Containers [Give feedback](#)

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<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"/>	iankine	a30ffa86d807	iankine/iankine:lte	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

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

To-Do List

- read [Delete](#)

Experiment: 17...

```
C:\Windows\System32\cmd
'expose' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\YOGENDRA\experiment12>kubectl expose deployment -f deployment.yaml --type=NodePort --name=nginx-service
error: when paths, URLs, or stdin is provided as input, you may not specify resource arguments as well

C:\Users\YOGENDRA\experiment12>kubectl expose -f deployment.yaml --type=NodePort --name=nginx-service
service/nginx-service exposed

C:\Users\YOGENDRA\experiment12>kubectl get svc
NAME                TYPE        CLUSTER-IP    EXTERNAL-IP    PORT(S)          AGE
flask-api-service    NodePort    10.98.219.94   <none>         5000:30007/TCP   4d3h
kubernetes           ClusterIP   10.96.0.1      <none>         443/TCP          16d
nginx-service        NodePort    10.98.201.40   <none>         5000:31599/TCP   11s

C:\Users\YOGENDRA\experiment12>kubectl get pods
NAME                READY    STATUS    RESTARTS    AGE
flask-api-deployment-696d866c47-rsr57    1/1      Running   3 (39m ago)  47h
flask-api-deployment-696d866c47-zkg9s    1/1      Running   3 (39m ago)  47h

C:\Users\YOGENDRA\experiment12>kubectl logs flask-api-deployment-696d866c47-rsr57
* Serving Flask app 'app'
* Debug mode: off
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://127.0.0.1:5000
* Running on http://10.1.0.83:5000
Press CTRL+C to quit

C:\Users\YOGENDRA\experiment12>flask-api-deployment-696d866c47-rsr57
```

Search

	Name	Tag	Image ID	Created	Size	Actions
<input type="checkbox"/>	hello-world	latest	d2c94e258dcb	2 years ago	13.25 KB	<div></div> <div></div> <div></div>
<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	15 minutes ag	191.75 MB	<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>

Windo... X

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

Q sha256:7f6953237a6166559

☰

Only show running containers

<input type="checkbox"/>	Name	Container ID	Image ↓	Port(s)	CPU (%)	Last started	Actions
<input type="checkbox"/>	kind_gauss	c68c00b08db7	yogi906/flask-ap		0%	3 hours ago	<div>▶ ⋮ 🗑</div>
<input type="checkbox"/>	modest_euclid	bf2395312a1e	yogi906/flask-ap		0%	3 hours ago	<div>▶ ⋮ 🗑</div>
<input type="checkbox"/>	k8s_flask-api_flav_0a974f68c8d5	7f6953237a61			0%	4 minutes ago	<div>▶ ⋮ 🗑</div>

Terminal

+ ▾ ×

Q

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🔍

Windo... ×

```
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)
```

<input type="checkbox"/>	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>
<input type="checkbox"/>	docker/desktop-storage-	v2.0	99f89471f470	4 years ago	41.85 MB	<div>▶ ⋮ 🗑</div>
<input type="checkbox"/>	my-static-website	latest	0e7612dd9176	16 minutes ag	191.75 MB	<div>▶ ⋮ 🗑</div>
<input type="checkbox"/>	yogi906/my-static-webs	latest	0e7612dd9176	16 minutes ag	191.75 MB	<div>▶ ⋮ 🗑</div>



Welcome to My Static Website!

Experiment: 20..

The image consists of three screenshots showing the installation of Jenkins on Windows using Docker.

First Screenshot: A Windows Command Prompt window showing the command `docker pull jenkins/jenkins:lts`. The output indicates an error during the connection: `Post "http://%2F%2F.%2Fpipe%2FdockerDesktopLinuxEngine/v1.47/images/create?fromImage=jenkins%2Fjenkins&tag=lts": open //./pipe/dockerDesktopLinuxEngine: The system cannot find the file specified.`

Second Screenshot: A Windows Command Prompt window showing the command `wsl --install`. The output indicates that the Windows Subsystem for Linux (WSL) is being downloaded and installed successfully. The message states: `Downloading: Windows Subsystem for Linux 2.3.26. Installing: Windows Subsystem for Linux 2.3.26. Windows Subsystem for Linux 2.3.26 has been installed. The operation completed successfully. Checking for updates. The most recent version of Windows Subsystem for Linux is already installed. Press any key to exit...`

Third Screenshot: A Windows Command Prompt window showing the command `docker pull jenkins/jenkins:lts`. The output shows the image being pulled successfully, listing the layers and their sizes. The command `docker run -d -p 8080:8080 -p 50000:50000 --name jenkins -vjenkins_home:/var/jenkins_home -v //var/run/docker.sock:/var/run/docker.sock jenkins/jenkins:lts` is also shown, along with the usage instructions for the `docker run` command.

Experiment: 21

