

# LAB EXPERIMENTS

## EXPERIMENT 1:

The screenshot shows a Jira board titled "SE". The board has three columns: "TO DO" (2 issues), "IN PROGRESS" (1 issue), and "DONE" (1 issue). The "TO DO" column contains issues "Experiment 1" (assigned to SE-1) and "drink]". The "IN PROGRESS" column contains issue "sleep" (assigned to SE-4). The "DONE" column contains issue "eat" (assigned to SE-2). A sidebar on the left lists recent projects: E3, My Scrum Project, Experiment 3, and the current project SE.

Column	Issue	Assignee
TO DO	Experiment 1	SE-1
	drink]	SE-3
IN PROGRESS	sleep	SE-4
DONE	eat	SE-2

## EXPERIMENT 2:

The image displays two screenshots of the Figma application interface, showing the design of a bus booking application.

**Screenshot 1: Auth Screen**

This screenshot shows the 'Auth' screen of the application. The header reads 'Welcome' with the subtext 'You are just one step away'. Below this is a 'Mobile Number' input field with a placeholder icon. A large orange 'Continue' button is centered below the input field. At the bottom, a small note states 'By Clicking on Continue, you agree to Privacy Policy and Terms & Conditions'. The Figma sidebar on the left lists components like 'Component 1' and 'Input'. The right sidebar contains various design tools and settings, including a 'Position' panel with coordinates X: -2923, Y: 323, and a 'Layout' panel showing dimensions W: 390, H: 844.

**Screenshot 2: Home Screen**

This screenshot shows the 'Home' screen of the application. It features a red header with the greeting 'Hey John! Where you want go.' and a profile picture. Below this is a yellow search bar with fields for 'Boarding From' and 'Where are you going?'. Underneath the search bar are buttons for 'Today', 'Tomorrow', and 'Delete'. A large red 'Find Buses' button is at the bottom. The main content area displays 'Upcoming Journey' with a list of trips. The first trip is for PNR/Ticket No:133932789, departing from New Delhi at 8:05 AM and arriving at New Delhi at 8:05 PM on Sat, 13 Jan. The second trip is for PNR/Ticket No:133932790, departing from New Delhi at 6:30 AM and arriving at New Delhi at 6:30 PM on Mon, 15 Jan. The footer navigation bar includes 'Home', 'Tickets', 'Wallet', and 'Setting'.

The screenshot shows the Figma interface with a modal window titled "Find Bus" open. The modal displays a search bar with "Pune" and "Mumbai" as the origin and destination. Below the search bar, it says "12th - Jan - 2023 (Monday)". The modal lists several bus service providers with their respective prices and travel times:

- Sangitam Travels: ₹ 680, 10 hours 40 mins
- Shree Satram Travels: ₹ 550, 9 hours 45 mins
- Captain Travels: ₹ 700, 10 hours 15 mins
- Shri Swaminarayan Travels: ₹ 999, 10 hours 30 mins
- Sangitam Travels: ₹ 600, 9 hours 45 mins

The modal has a resolution of 390x844.

**Figma Handbook - Design+Code** tab is also visible in the browser.

The screenshot shows the Figma interface with a form window titled "Sangitam Travels" open. The form is divided into sections: "Traveller Information" and "Contact Information".

**Traveller Information**

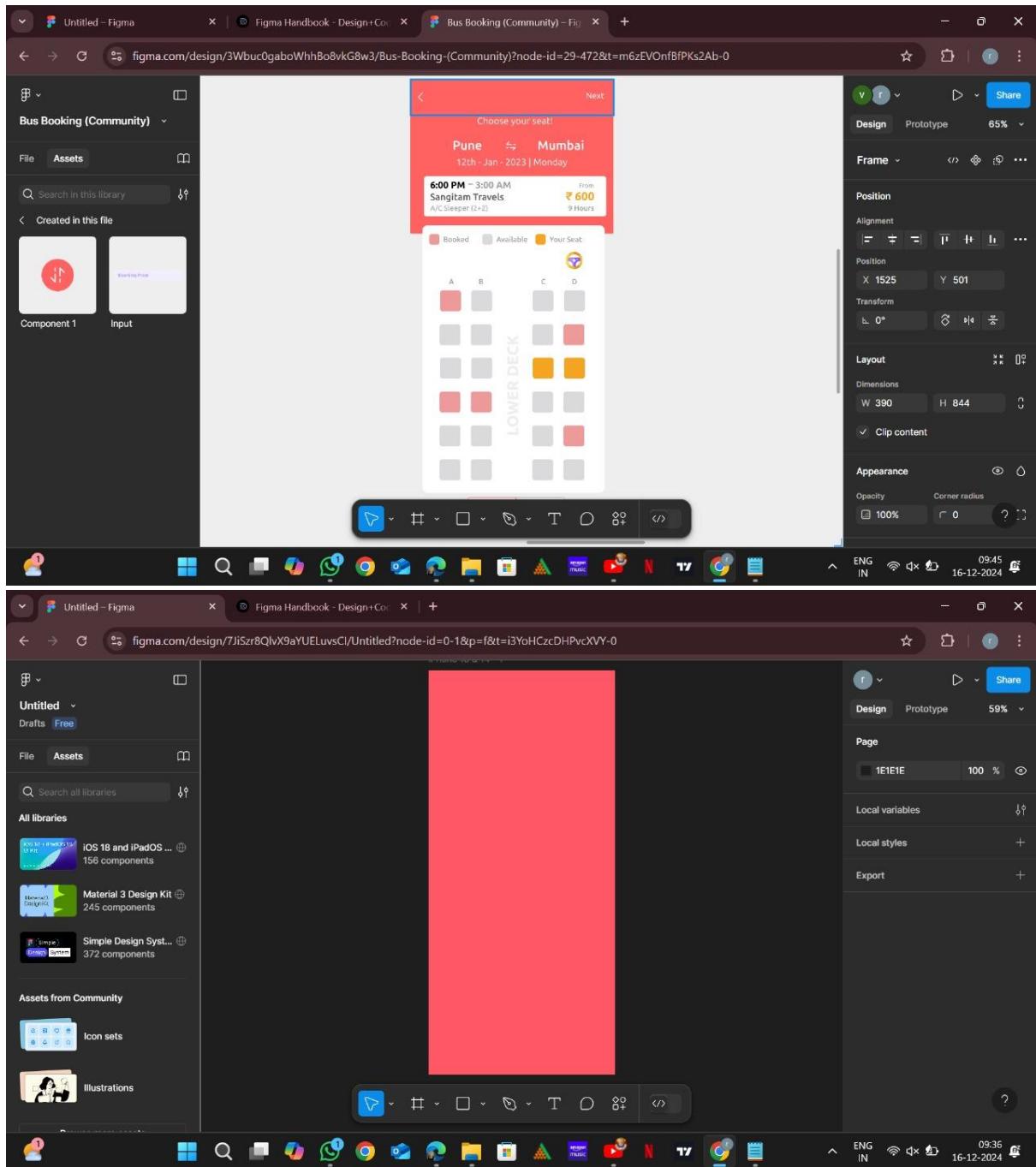
- Passenger 1: Full Name, Age (Age dropdown), Male, Female
- Passenger 2: Full Name, Age (Age dropdown), Male, Female

**Contact Information**

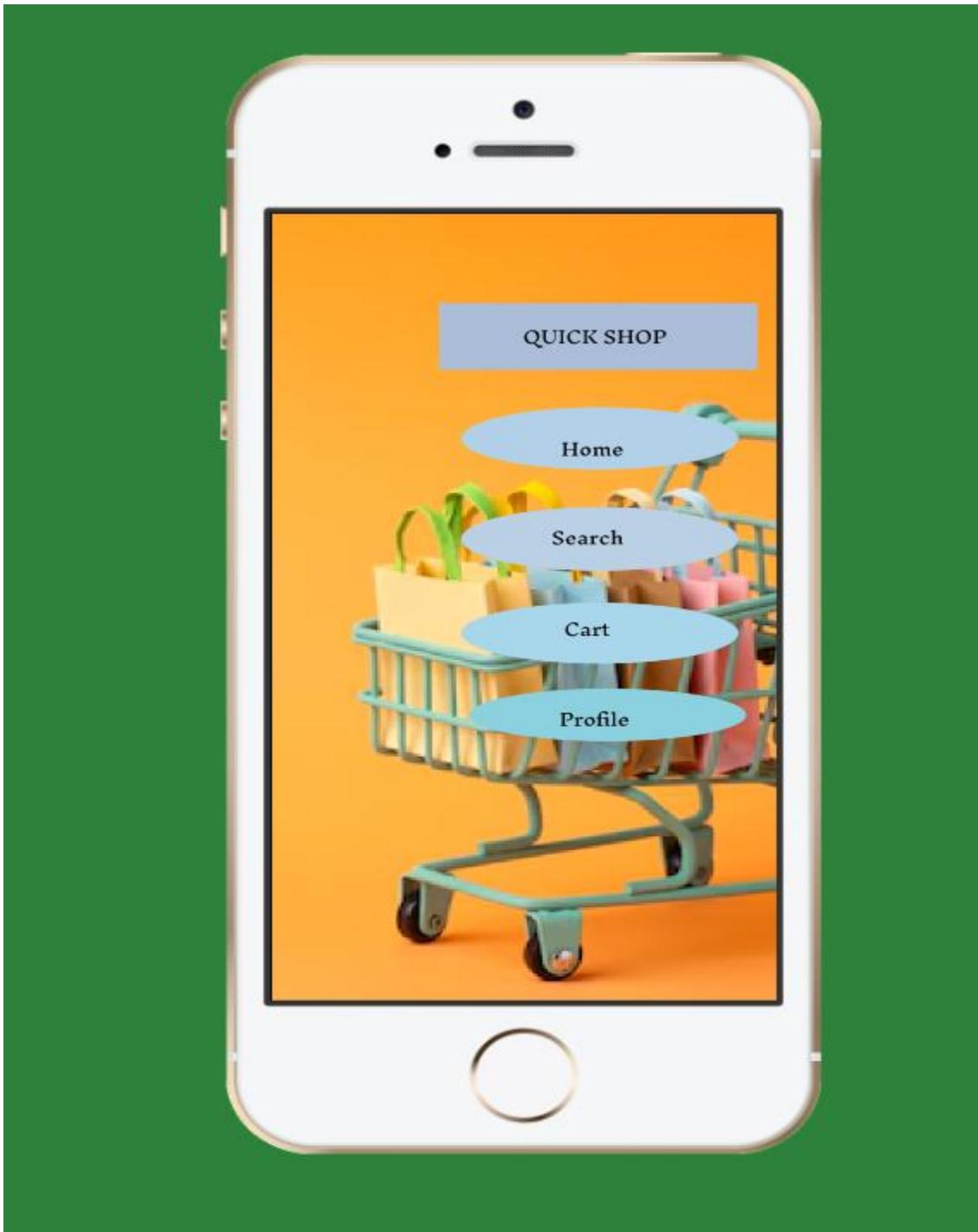
- Mobile
- Email

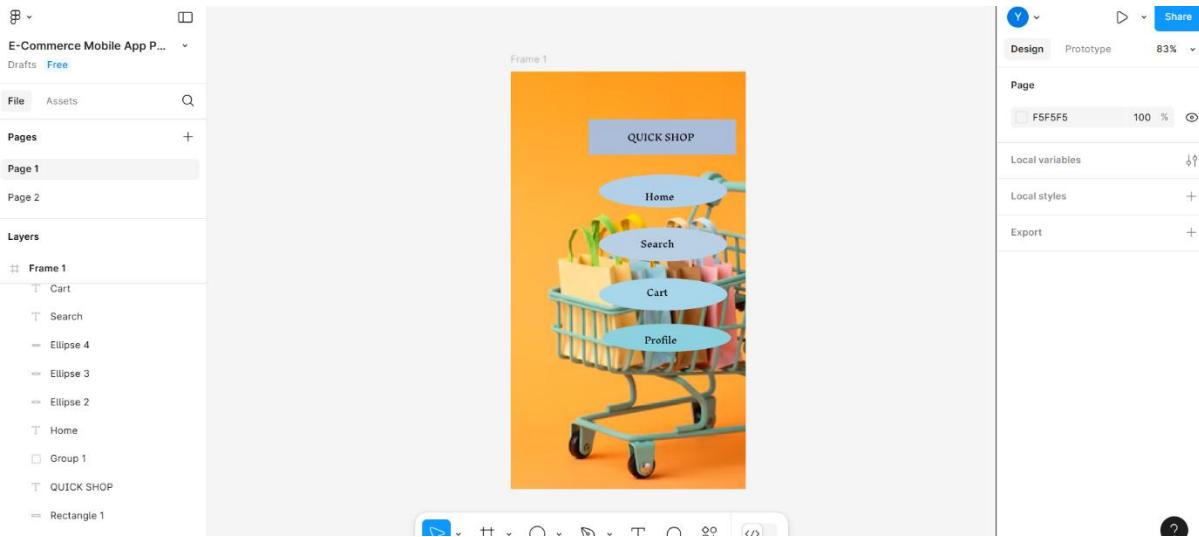
The form has a resolution of 390x844.

**Figma Handbook - Design+Code** tab is also visible in the browser.



## EXPERIMENT 3:





## EXPERIMENT 4:

Jira Your work ▾ Projects ▾ Filters ▾ Dashboards ▾ Teams ▾ Plans ▾ Apps ▾ Create Premium trial Search

**experiment3** Software project

PLANNING Timeline Backlog **Board** Forms + Add view

DEVELOPMENT Code Project pages Project settings

**EX Sprint 1** is develop API page with given tasks

4 days ⚡ ⭐ 🔍 Complete sprint ...

GROUP BY None

Q. Search YB

**TO DO 7**

- Design the homepage layout. EX-5
- develop api for login page EX-3
- create user registration page EX-2

**IN PROGRESS**

**DONE 2**

- create user reigstration page EX-1
- create the database EX-4

Quickstart

**EX Sprint 1** is develop API page with given tasks

4 days ⚡ ⭐ 🔍 Complete sprint ...

GROUP BY None

Q. Search YB

**TO DO** + Create issue

**IN PROGRESS 4**

- Design the homepage layout. EX-5
- develop api for login page EX-3
- Implement password reset functionality. EX-6
- Test user authentication. EX-7

**DONE 2**

- create user reigstration page EX-1
- create the database EX-4

Quickstart

# EXPERIMENT 5:

The screenshot shows two Jira interfaces side-by-side.

**Left Side (Backlog View):**

- Project:** Library Management ex5
- View:** Backlog
- Search Bar:** Q Search
- Filters:** Epic, Label
- Epic:** LME Sprint 1 (Issues without epic)
- Issues:**
  - LME-1: Search books by title and author
  - LME-2: Online book reservation system
  - LME-3: Generate monthly reports on borrowed books for administrators
  - LME-4: Enable email books for administrators
  - LME-5: Create a user-friendly dashboard for librarians
  - LME-6: Allow users to review and rate books
- Backlog:** (5 issues)
  - LME-7: Multi-language support
  - LME-8: Integrate a chatbot for user assistance
  - LME-9: Develop a mobile app version of the system
  - LME-10: QR code scanning for borrowing and returning books
  - LME-11: Implement a feature for advanced analytics on user data
- Details Panel:** Shows the following details for LME-2:
  - Assignee: Unassigned
  - Labels: Must-Have
  - Parent: None
  - Team: None
  - Sprint: LME Sprint 1
  - Story point: None

**Right Side (Online book reservation system View):**

- Project:** Online book reservation system
- View:** Backlog
- Search Bar:** Q Search
- Filters:** To Do, Actions, Improve issue
- Description:** Add a description...
- Details Panel:** Shows the following details for LME-2:
  - Assignee: Unassigned
  - Labels: Must-Have
  - Parent: None
  - Team: None
  - Sprint: LME Sprint 1
  - Story point: None

# EXPERIMENT 6:

Komma Akhil / Getting started in Confluence / TITLE: "Library Management System Project Overview"



## TITLE: "Library Management System Project Overview"



Owned by Komma Akhil ...

Just a moment ago • 1 min read • [See how many people viewed this page](#)

Add a brief introduction describing the project, such as:

This page tracks the development progress of the Library Management System, including key tasks and overall progress.

Type	Key	Summary	Assignee	Priority	Status	Updated
<input checked="" type="checkbox"/>	RCZQ-3	password reset		<span style="color: orange;">=</span> Medium	TO DO	Dec 12, 2024, 10:53
<input checked="" type="checkbox"/>	RCZQ-2	registration page		<span style="color: orange;">=</span> Medium	TO DO	Dec 12, 2024, 10:53
<input checked="" type="checkbox"/>	RCZQ-1	api design		<span style="color: orange;">=</span> Medium	TO DO	Dec 12, 2024, 10:53
<input checked="" type="checkbox"/>	SE-4	sleep		<span style="color: orange;">=</span> Medium	IN PROGRESS	Dec 12, 2024, 09:04
<input checked="" type="checkbox"/>	SE-3	drink]		<span style="color: orange;">=</span> Medium	TO DO	Dec 12, 2024, 09:04
<input checked="" type="checkbox"/>	SE-2	eat		<span style="color: orange;">=</span> Medium	DONE	Dec 12, 2024, 09:04

# EXPERIMENT 7:

The screenshot shows a Jira board titled 'E7 board' for the project 'experiment 7'. The board has three columns: 'TO DO', 'IN PROGRESS', and 'DONE'. Tasks are assigned to 'Basic-Need' and have labels 'User Login and Role Assignment', 'Task Creation and Assignment', 'Task Prioritization and Deadlines', and 'Progress Tracking and Reporting'. A sidebar on the left provides navigation and project details.

Column	Task	Description	Label
TO DO	E7-1	User Login and Role Assignment	Basic-Need
TO DO	E7-2	Task Creation and Assignment	Basic-Need
IN PROGRESS	E7-3	Task Prioritization and Deadlines	Basic-Need
IN PROGRESS	E7-4	Progress Tracking and Reporting	Basic-Need
DONE			

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experiment 7 Software project

PLANNING Timeline Board List Forms + Add view

DEVELOPMENT Code Project pages Project settings Archived issues NEW

E7 board

Search YB Label

GROUP BY None Insights View settings

TO DO 1 IN PROGRESS 1 DONE 2

Task Creation and Assignment Basic-Need Could-Have E7-2 Task Prioritization and Deadlines Performance-Need Won't-Have E7-3 Progress Tracking and Reporting Should-Have Ecitement-Need E7-4 User Login and Role Assignment Basic-Need Must-Have E7-1

+ Create issue

Column	Task Description	Priority	Status
TO DO 1	Task Creation and Assignment	Basic-Need	Pending
IN PROGRESS 1	Task Prioritization and Deadlines	Performance-Need	In Progress
DONE 2	Progress Tracking and Reporting	Should-Have	Completed

## EXPERIMENT 8:

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

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experiment8 Software project

PLANNING Timeline Backlog Board List Forms + Add view

DEVELOPMENT Code Project pages Project settings Archived issues NEW

XPRMNT8 Sprint 1

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 XPRMNT8-3

+ Complete sprint

Column	Task Description	Priority	Status
TO DO 6	Course Enrollment and Registration	Basic-Need	Pending
IN PROGRESS	Video Lecture Streaming	Performance-Need	In Progress
DONE	Interactive Quizzes and Assignments	Performance-Need	Completed

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experiment8 Software project

PLANNING Timeline Backlog Board List Forms + Add view

DEVELOPMENT Code Project pages Project settings Archived issues NEW

XPRMNT8 Sprint 1

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 Ecitement-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

Column	Task Description	Priority	Status
TO DO	Performance-Need	Should-Have	Pending
IN PROGRESS 3	Certificate Generation	Performance-Need	In Progress
DONE 3	Peer-to-Peer Discussion Forums	Could-Have	Completed
TO DO	Registration	Basic-Need	Pending
IN PROGRESS 3	Video Lecture Streaming	... Perf	In Progress
DONE 3	Interactive Quizzes and Assignments	Performance-Need	Completed

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library management1 Software project

PLANNING Timeline Backlog Board List Forms + Add view Automate workflows for faster resolutions Try Jira Service Management

Projects / library management1 Backlog

Epic 1 Label Clear filters

Issues without epic MOSCOW Category

Start date None Due date None View all details + Create epic + Create issue

	LIB-3 Notifications & Reports	TO DO
<input checked="" type="checkbox"/>	LIB-4 User Engagement & Feedback	TO DO
<input checked="" type="checkbox"/>	LIB-6 Email notifications for overdue books	TO DO
<input checked="" type="checkbox"/>	LIB-7 QR code scanning for borrowing and returning	TO DO
<input checked="" type="checkbox"/>	LIB-8 User-friendly dashboard for librarians	TO DO
<input checked="" type="checkbox"/>	LIB-9 Allow users to review and rate books	TO DO
<input checked="" type="checkbox"/>	LIB-10 Integrate a chatbot for user assistance	TO DO
<input checked="" type="checkbox"/>	LIB-11 Mobile app version of the system	TO DO

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library management1 Software project

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Projects / library management1 Backlog

Epic 1 Label Clear filters

Issues without epic MOSCOW Category

Start date None Due date None View all details + Create epic + Create issue

Backlog (9 of 10 issues visible)

	LIB-2 Borrowing & Returning	LIB-3 Notifications & Reports	LIB-4 User Engagement & Feedback	LIB-6 Email notifications for overdue books	LIB-7 QR code scanning for borrowing and returning	LIB-8 User friendly dashboard for librarians	LIB-9 Allow users to review and rate books
<input checked="" type="checkbox"/>	LIB-2 Borrowing & Returning	LIB-3 Notifications & Reports	LIB-4 User Engagement & Feedback	LIB-6 Email notifications for overdue books	LIB-7 QR code scanning for borrowing and returning	LIB-8 User friendly dashboard for librarians	LIB-9 Allow users to review and rate books

LIB-5 Details

Assignee Unassigned Assign to me

Labels Could-Have Must-Have Should-Have Won't-Have

Parent None

Team None

Start date None

# EXPERIMENT 9:

```
MINGW64/c/Users/gurap/madhu1
$ git clone https://github.com/Madhu9848/madhu1.git
fatal: destination path 'madhu1' already exists and is not an empty directory.

git: 'cd' is a alias for 'cd'.
$ cd madhu1
git: 'cd' is a alias for 'cd'.
$ git checkout -b feature-branch-name
switched to a new branch 'feature-branch-name'
$ git commit -m "Updated README and added new feature"
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 'gurap@LAPTOP-TA2UT39N.(none)')
$ git config --global user.name "GurapasaLamdu"
$ git config --global user.email gurapasalamdu
$ git config --global user.name Madhu9848
$ git config --global user.name Madhu9848

$ git push origin feature-branch-name
error: src refspec feature-branch-name does not match any
error: failed to push some refs to 'https://github.com/Madhu9848/madhu1.git'

$ git add .
$ git commit -m "madhu message"
On branch feature-branch-name
Initial commit

nothing to commit (create/copy files and use "git add" to track)

$ git remote -v
origin https://github.com/Madhu9848/madhu1.git (fetch)
origin https://github.com/Madhu9848/madhu1.git (push)

$ git pull origin main --rebase
fatal: updating an unborn branch with changes added to the index.

$ git log
fatal: your current branch 'feature-branch-name' does not have any commits yet

$ git add .
$ git commit -m "madhu message"
On branch feature-branch-name
Initial commit

nothing to commit (create/copy files and use "git add" to track)

$ git push origin feature-branch-name
error: src refspec feature-branch-name does not match any
error: failed to push some refs to 'https://github.com/Madhu9848/madhu1.git'

$ git add README.md
$ git commit -m "Added README file"
[feature-branch-name (root-commit) 75a7d4f] added README file
 1 file changed, 1 insertion(+)
 create mode 100644 README.md

$ git push origin feature-branch-name
error: src refspec feature-branch-name does not match any
error: failed to push some refs to 'https://github.com/Madhu9848/madhu1.git'

$ git add README.md
$ git commit -m "Updated README file"
[feature-branch-name (root-commit) 75a7d4f] updated README file
 1 file changed, 1 insertion(+)
 create mode 100644 README.md

$ git push origin feature-branch-name
error: src refspec feature-branch-name does not match any
error: failed to push some refs to 'https://github.com/Madhu9848/madhu1.git'

$ git add README.md
$ git commit -m "Updated README file"
[feature-branch-name (root-commit) 75a7d4f] updated README file
 1 file changed, 1 insertion(+)
 create mode 100644 README.md
```

Breaking news  
Former Haryana...

ENG IN 14:27 20-12-2024

```
MINGW64/c/Users/gurap/madhu1
$ git remote -v
origin https://github.com/Madhu9848/madhu1.git (fetch)
origin https://github.com/Madhu9848/madhu1.git (push)

$ git pull origin main --rebase
fatal: updating an unborn branch with changes added to the index.

$ git log
fatal: your current branch 'feature-branch-name' does not have any commits yet

$ git add .
$ git commit -m "madhu message"
On branch feature-branch-name
Initial commit

nothing to commit (create/copy files and use "git add" to track)

$ git push origin feature-branch-name
error: src refspec feature-branch-name does not match any
error: failed to push some refs to 'https://github.com/Madhu9848/madhu1.git'

$ git add README.md
$ git commit -m "Added README file"
[feature-branch-name (root-commit) 75a7d4f] added README file
 1 file changed, 1 insertion(+)
 create mode 100644 README.md

$ git push origin feature-branch-name
error: src refspec feature-branch-name does not match any
error: failed to push some refs to 'https://github.com/Madhu9848/madhu1.git'

$ git add README.md
$ git commit -m "Updated README file"
[feature-branch-name (root-commit) 75a7d4f] updated README file
 1 file changed, 1 insertion(+)
 create mode 100644 README.md

$ git push origin feature-branch-name
error: src refspec feature-branch-name does not match any
error: failed to push some refs to 'https://github.com/Madhu9848/madhu1.git'

$ git add README.md
$ git commit -m "Updated README file"
[feature-branch-name (root-commit) 75a7d4f] updated README file
 1 file changed, 1 insertion(+)
 create mode 100644 README.md
```

Breaking news  
Former Haryana...

ENG IN 14:28 20-12-2024

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also compare across forks or learn more about diff comparisons.

base: main@{1day} compare: main

-o 1 commit 1 file changed 1 contributor

Commits on Dec 20, 2024

Update file1

Madhu9848 authored 19 hours ago

Showing 1 changed file with 1 addition and 1 deletion.

file1

```

@@ -1 +1 @@
- print("Hello")
+ print("Hello10")

```

Split Unified

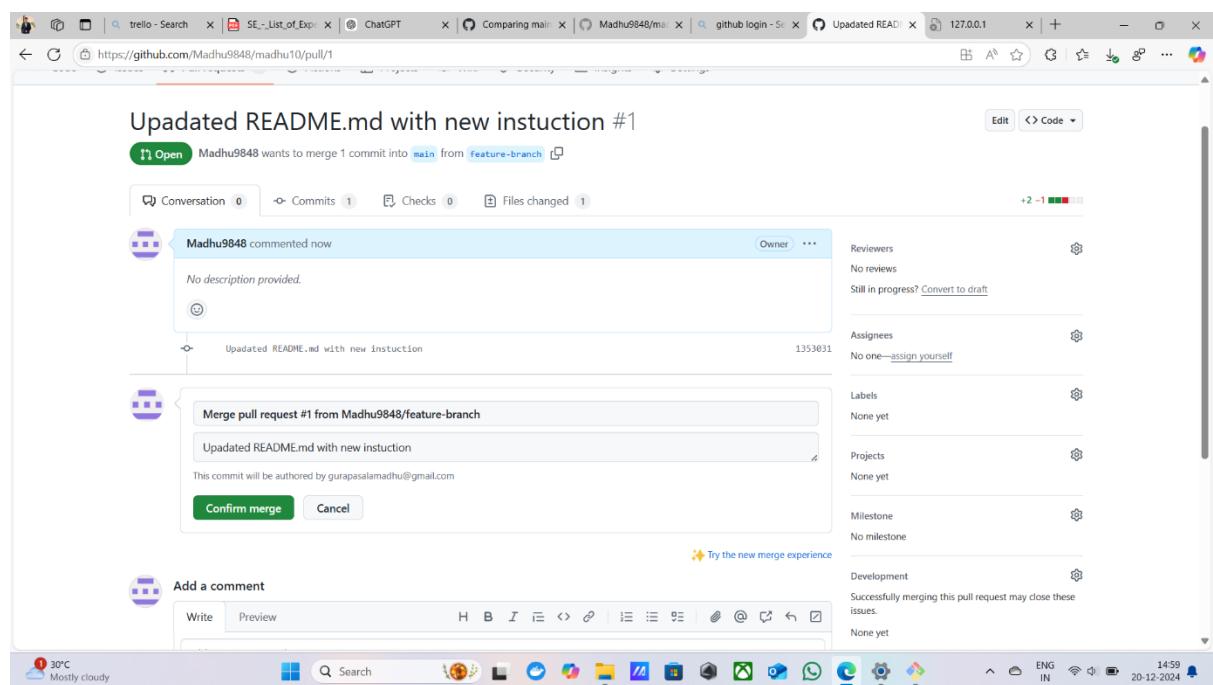
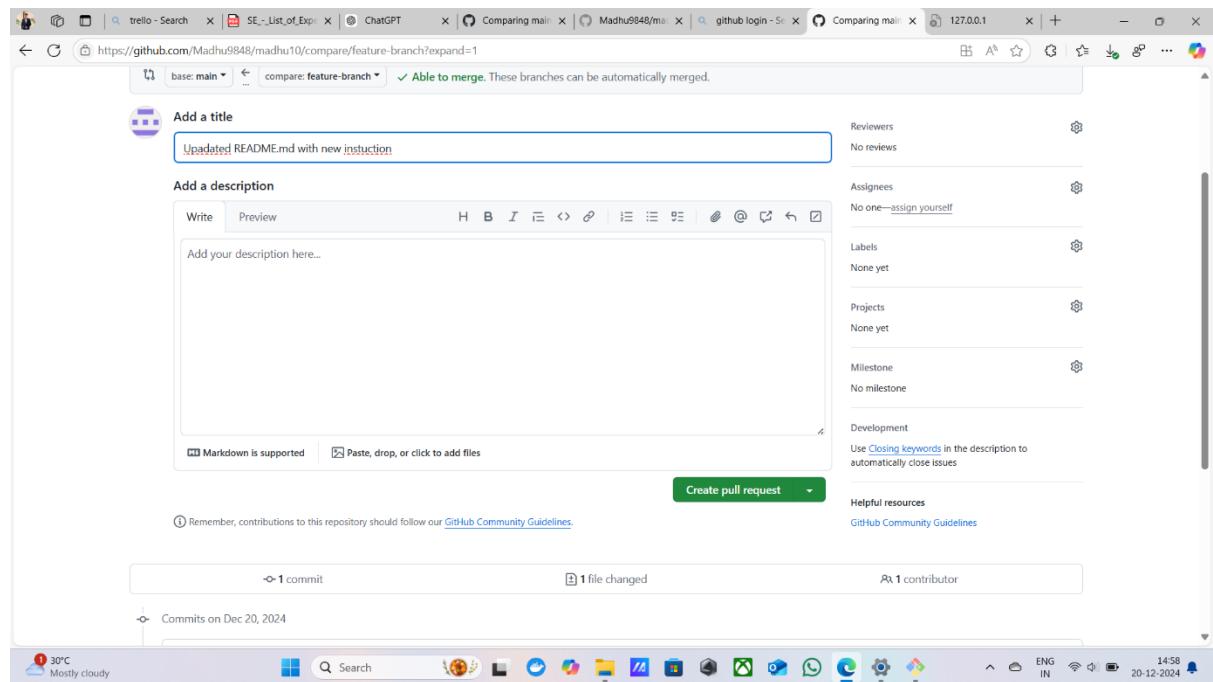
© 2024 GitHub, Inc. Terms Privacy Security Status Docs Contact Manage cookies Do not share my personal information

## EXPERIMENT 10:

```

gurap@LAPTOP-TA2UTJ3N MINGW64 ~
$ git clone https://github.com/Madhu9848/madhu10.git
Cloning into 'madhu10'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.
gurap@LAPTOP-TA2UTJ3N MINGW64 ~
$ cd madhu10
gurap@LAPTOP-TA2UTJ3N MINGW64 ~/madhu10 (main)
$ git checkout -b feature-branch
Switched to a new branch 'feature-branch'
gurap@LAPTOP-TA2UTJ3N MINGW64 ~/madhu10 (feature-branch)
$ nano README.md
gurap@LAPTOP-TA2UTJ3N MINGW64 ~/madhu10 (feature-branch)
$ nano README.md
gurap@LAPTOP-TA2UTJ3N MINGW64 ~/madhu10 (feature-branch)
$ git add README.md
warning: the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it
gurap@LAPTOP-TA2UTJ3N MINGW64 ~/madhu10 (feature-branch)
$ git commit -m "Updated README.md with new instruction"
[feature-branch 153301] Updated README.md with new instruction
 1 File changed, 2 insertions(+), 1 deletion(-)
gurap@LAPTOP-TA2UTJ3N MINGW64 ~/madhu10 (feature-branch)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Writing objects: 100% (3/3), 288 bytes | 288.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Create a pull request for 'feature-branch' on GitHub by visiting:
remote:   https://github.com/Madhu9848/madhu10/pull/new/feature-branch
remote:
To https://github.com/Madhu9848/madhu10.git
 [new branch]  feature-branch -> feature-branch
gurap@LAPTOP-TA2UTJ3N MINGW64 ~/madhu10 (feature-branch)
$ 

```



# 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 |
```

# EXPERIMENT 14:

The screenshot shows a GitHub Actions run titled "1st change #3". The run was triggered via push 6 minutes ago by user "akhil5068" to branch "main". The status is "Failure" with a total duration of 16s. The workflow file is "docker-image.yml" and it contains a single job named "build-and-push" which failed with an exit code of 1. Annotations show 1 error and 1 warning. The system status bar at the bottom indicates it's 17:19 on 15-12-2024, the weather is 62°F partly sunny, and the taskbar shows various open applications.

The screenshot shows a GitHub Actions run titled "2nd change #4". The run was triggered via push 4 minutes ago by user "akhil5068" to branch "main". The status is "Success" with a total duration of 30s. The workflow file is "docker-image.yml" and it contains a single job named "build-and-push" which completed successfully with an exit code of 0. Annotations show 1 warning. A note at the bottom states: "ubuntu-latest pipelines will use ubuntu-24.04 soon. For more details, see https://github.com/actions/runner-images/issues/10636". The system status bar at the bottom indicates it's 17:20 on 15-12-2024, the weather is 62°F partly sunny, and the taskbar shows various open applications.

# EXPERIMENT 15:

A screenshot of a Windows desktop environment. At the top is a black Command Prompt window showing a series of git commands and their outputs. Below the window is a light-colored taskbar with various icons for applications like File Explorer, Microsoft Edge, and system tools. The system tray shows the date (21-12-2024), time (11:00), battery status, and network connection.

```
C:\Users\gurap\madhu23>cd madhu23
The system cannot find the path specified.

C:\Users\gurap\madhu23>git add .
C:\Users\gurap\madhu23>git commit -m "Describe the changes made"
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

C:\Users\gurap\madhu23>git push origin main
Everything up-to-date

C:\Users\gurap\madhu23>cd C:\Users\gurap\madhu23
C:\Users\gurap\madhu23>git add .

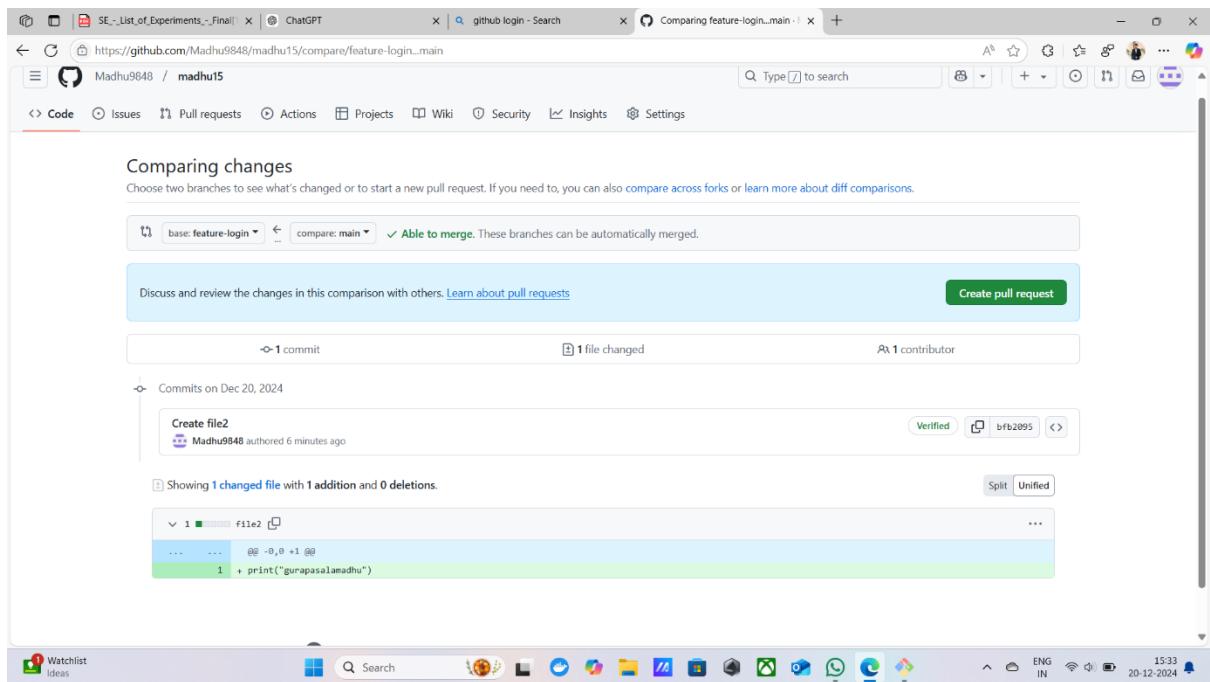
C:\Users\gurap\madhu23>git commit -m "Updated the file with new changes"
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

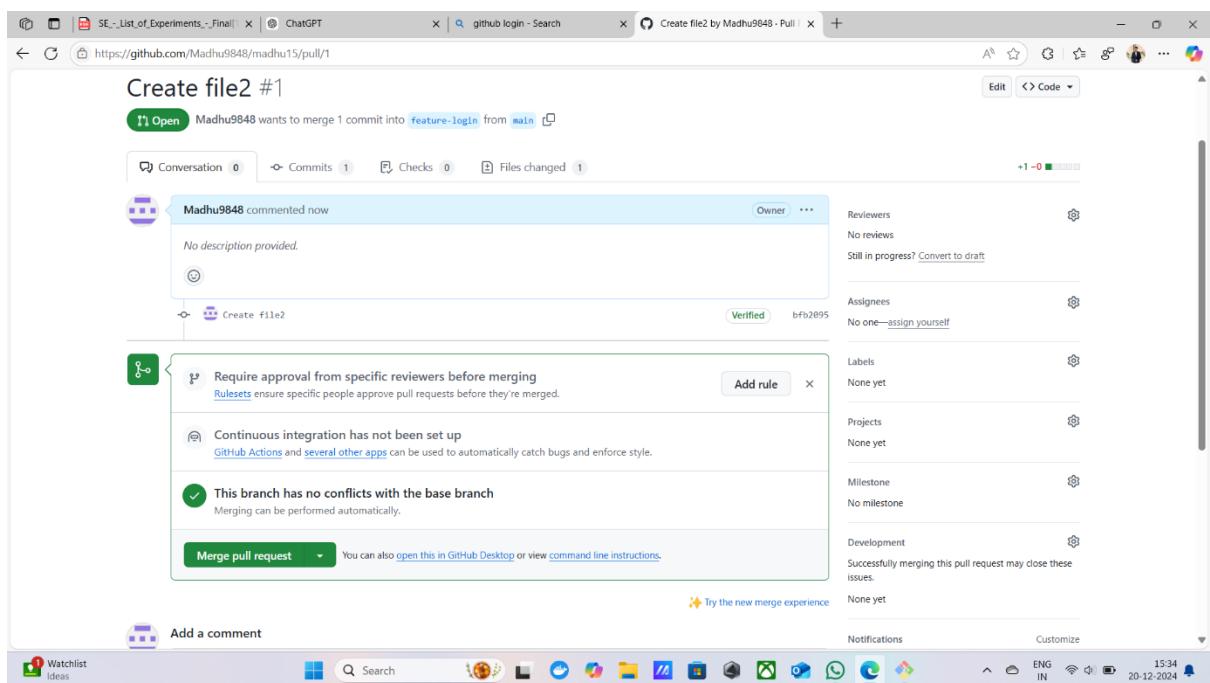
C:\Users\gurap\madhu23>push origin main
'push' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\gurap\madhu23>
```

A screenshot of a web browser displaying a GitHub pull request creation interface. The URL in the address bar is <https://github.com/Madhu9848/madhu15/compare/feature-login...main>. The page shows a summary of the changes between the 'base: feature-login' and 'compare: main' branches, indicating they are 'Able to merge'. It includes fields for adding a title ('Create file2'), a description, and setting reviewers, assignees, labels, projects, milestones, and development status. A 'Create pull request' button is at the bottom. The browser's toolbar and taskbar are visible at the top and bottom respectively.



The screenshot shows a GitHub comparison page between the `feature-login` branch and the `main` branch. The comparison summary indicates that the branches are able to be merged automatically. It shows 1 commit, 1 file changed, and 1 contributor. A specific commit from `Madhu9848` dated Dec 20, 2024, is highlighted, showing a single addition to `file2`: `print("gurapasalamadhu")`. The GitHub interface includes standard navigation and search bars at the top.



The screenshot shows a GitHub pull request creation page for a pull request titled "Create file2 #1". The pull request is from the `feature-login` branch into the `main` branch. The pull request has 0 conversations, 1 commit, 0 checks, and 1 file changed. The commit message is "No description provided." and is attributed to `Madhu9848`. The pull request is in progress, with no reviews or assignees yet. The developer can merge the pull request manually or use GitHub Actions for continuous integration. The GitHub interface includes standard navigation and search bars at the top.

# EXPERIMENT 17:

Welcome to My Static Website!

	Name	Tag	Image ID	Created	Size	Actions	
hello-world	latest	d2c94e258dcb	2 years ago	13.25 KB	<a href="#">View</a>	<a href="#">More</a>	<a href="#">Delete</a>
registry.k8s.io/pause	3.9	e6f181688397	2 years ago	743.95 KB	<a href="#">View</a>	<a href="#">More</a>	<a href="#">Delete</a>
docker/desktop-storage-	v2.0	99f89471f470	4 years ago	41.85 MB	<a href="#">View</a>	<a href="#">More</a>	<a href="#">Delete</a>
my-static-website	latest	0e7612dd9176	15 minutes ago	191.75 MB	<a href="#">View</a>	<a href="#">More</a>	<a href="#">Delete</a>

Showing 27 items

Containers

	Name	Container ID	Image	Port(s)	CPU (%)	Last started	Actions
kind_gauss	c68c00b08db7	yogi906/flask-ap	0%	3 hours ago	<a href="#">View</a>	<a href="#">More</a>	<a href="#">Delete</a>
modest_euclid	bf2395312a1e	yogi906/flask-ap	0%	3 hours ago	<a href="#">View</a>	<a href="#">More</a>	<a href="#">Delete</a>
k8s_flask-api_flask	0a974f68c8d5	7f6053237a61	0%	4 minutes ago	<a href="#">View</a>	<a href="#">More</a>	<a href="#">Delete</a>

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

Containers

	Name	Container ID	Image	Port(s)	CPU (%)	Last started	Actions
kind_gauss	c68c00b08db7	yogi906/flask-ap	0%	3 hours ago	<a href="#">View</a>	<a href="#">More</a>	<a href="#">Delete</a>
modest_euclid	bf2395312a1e	yogi906/flask-ap	0%	3 hours ago	<a href="#">View</a>	<a href="#">More</a>	<a href="#">Delete</a>
k8s_flask-api_flask	0a974f68c8d5	7f6053237a61	0%	4 minutes ago	<a href="#">View</a>	<a href="#">More</a>	<a href="#">Delete</a>

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)
```

# EXPERIMENT 23:

```
C:\Users\gurap\madhu23>cd madhu23
The system cannot find the path specified.

C:\Users\gurap\madhu23>git add .
C:\Users\gurap\madhu23>git commit -m "Describe the changes made"
On branch main
Your branch is up to date with 'origin/main'.
nothing to commit, working tree clean

C:\Users\gurap\madhu23>git push origin main
Everything up-to-date

C:\Users\gurap\madhu23>cd C:\Users\gurap\madhu23
C:\Users\gurap\madhu23>git add .

C:\Users\gurap\madhu23>git commit -m "Updated the file with new changes"
On branch main
Your branch is up to date with 'origin/main'.
nothing to commit, working tree clean

C:\Users\gurap\madhu23>push origin main
'push' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\gurap\madhu23>
```

The screenshot shows a GitHub diff comparison between two branches. The top navigation bar includes tabs for 'SE\_-List\_of\_Experiments\_-Final', 'ChatGPT', and another 'ChatGPT' tab. The URL is https://github.com/Madhu9848/madhu23/compare/main%40%7B1day%7D...main.

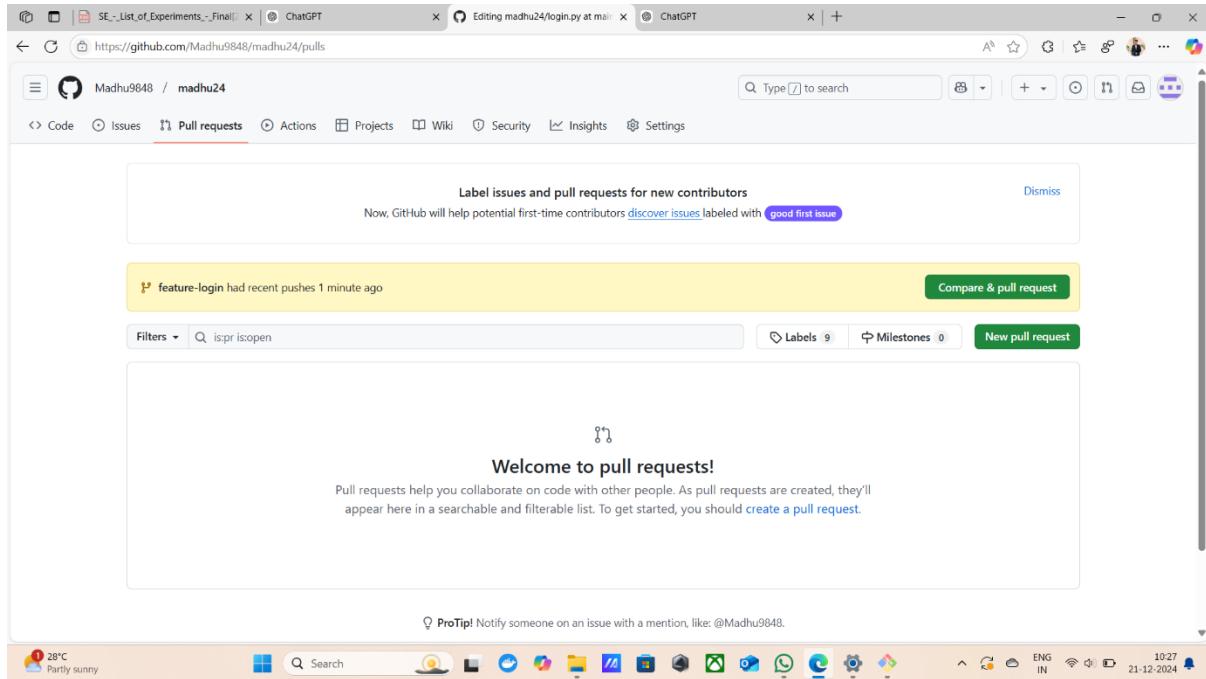
The main content area displays a 'Comparing changes' section. It shows a summary: 'base: main@{1day}', 'compare: main', '2 commits', '2 files changed', and 'At 1 contributor'. Below this, it lists 'Commits on Dec 21, 2024':

- Create file**: Madhu9848 authored 3 minutes ago. Status: Verified, SHA: fd442ec.
- Delete README.md**: Madhu9848 authored 2 minutes ago. Status: Verified, SHA: e7e8070.

Below the commits, it says 'Showing 2 changed files with 1 addition and 1 deletion.' Two code snippets are shown in a split view:

- README.md**: A file that was deleted. The diff shows the line '- # madhu23'.
- file**: A new file created. The diff shows the line '+ helloooooooooooooo'.

# EXPERIMENT 24:



```
$ touch login.py
$ nano login.py
$ ls
README.md  login.py
$ cat login.py
def login(username, password):
    """
    Simple login function that validates username and password.
    """
    valid_user = "admin"
    valid_password = "password123"
    if username == valid_user and password == valid_password:
        return "Login successful!"
    else:
        return "Invalid credentials"

if __name__ == "__main__":
    user = input("Enter username: ")
    pwd = input("Enter password: ")
    print(login(user, pwd))

$ git add login.py
warning: in the working copy of 'login.py', LF will be replaced by CRLF the next time Git touches it
$ git commit -m "Add login.py with a simple login function"
[madhu24-feature-login 18d4a81] Add login.py with a simple login function
1 file changed, 17 insertions(+)
create mode 100644 login.py

$ git push origin feature-login
Enumerating objects: 6, done.
Counting objects: 6 (delta 0), done.
Delta compression using up to 12 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (6/6), 1.32 KiB | 450.00 KiB/s, done.
Total 6 (delta 0), reused 3 (delta 0), pack-reused 0 (from 0)
remote: Create a pull request for 'feature>Login' on GitHub by visiting:
remote:   https://github.com/Madhu9848/madhu24/pull/new/feature>Login
remote:
To https://github.com/Madhu9848/madhu24.git
 * [new branch]  feature>Login -> feature>Login
```

The screenshot shows a Windows desktop environment with a taskbar at the bottom. The taskbar includes icons for weather (28°C, Partly sunny), search, and various system applications. The system tray shows the date (21-12-2024) and time (10:30). Above the taskbar, there is a browser window with multiple tabs open. The active tab is a GitHub comparison page for the URL <https://github.com/Madhu9848/madhu24/compare/feature-login?expand=1>. The page displays a message: "There isn't anything to compare. main and feature-login are entirely different commit histories." Below this message, it says "Showing 1 changed file with 17 additions and 0 deletions." A code diff view shows the content of a file named "login.py". The code defines a function "login" that checks if the provided username and password match predefined values ("admin" and "password123"). If they do, it returns "Login successful"; otherwise, it returns "Invalid credentials". The code is color-coded with blue for added lines and black for deleted lines.

```
@@ -0,0 +1,17 @@
+def login(username, password):
+    """
+        Simple login function that validates username and password.
+
+    """
+    valid_user = "admin"
+    valid_password = "password123"
+
+    if username == valid_user and password == valid_password:
+        return "Login successful"
+    else:
+        return "Invalid credentials"
+
+if __name__ == "__main__":
+    user = input("Enter username: ")
+    pwd = input("Enter password: ")
+    print(login(user, pwd))
```