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## Department of Information Technology

Academic Year: 2024-25

Semester: VI

Class / Branch / Div: TE- IT C

Subject: MAD & PWA Lab

Name of Instructor: Prof. Sujata Oak

Name of Student: Vijay Madiwal

Student ID: 23204010

Roll No. 13

Date of Submission: 03/04/25

### Experiment No.11

**Aim:** To implement deployment of Ecommerce PWA to Github Pages.

**Prerequisites:** Basic Knowledge of ReactJS, JavaScript & ES6+, Node.js & npm Installed, Git & GitHub Account, Knowledge of PWA

**Software:** Node.js & npm, React.js Framework, Git, GitHub Account, VSCode, Google Chrome & Lighthouse Extension

**Problem Statement:** Deploying a Responsive E-commerce Progressive Web Application (PWA) using ReactJS and GitHub Pages (experiment:9)

**Objective:**

To design, develop, and deploy a **fully functional e-commerce web application** that works **offline**, is **responsive**, and is **hosted on GitHub Pages**.

### Step 1: Install gh-pages Package

GitHub Pages does not natively support React apps built with create-react-app. To deploy it, install the gh-pages package by running:

npm install --save gh-pages

```
PS D:\APSIT-JAN-2025\MAD-2025\PWA\reactjsproject\ecommerce-ui> npm install --save gh-pages
```

```
added 10 packages, and audited 1397 packages in 4s
```

```
277 packages are looking for funding  
run `npm fund` for details
```



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**Goto your Github Account and create new repository:**

## Repository template

No template ▾

Start your repository with a template repository's contents.

## Owner \*

 sujataoak799 ▾

## Repository name \*

/ deployecommercewp

✓ deployecommercewp is available.

Great repository names are short and memorable. Need inspiration? How about [solid-octo-chainsaw](#) ?

## Description (optional)

To design, develop, and deploy a fully functional e-commerce web application that works offline, is responsive.

☒  Public

Anyone on the internet can see this repository. You choose who can commit.

☐  Private

You choose who can see and commit to this repository.

## Initialize this repository with:

☒ Add a README file

This is where you can write a long description for your project. [Learn more about READMEs.](#)

## Add .gitignore


.gitignore template: None ▾

Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

## Choose a license

License: None ▾

A license tells others what they can and can't do with your code. [Learn more about licenses.](#)

This will set  main as the default branch. Change the default name in your [settings](#).

 You are creating a public repository in your personal account.

Create repository



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## Ensure Your Git Repository Is Set Up Correctly

Check if your local repository is connected to GitHub:

git remote -v

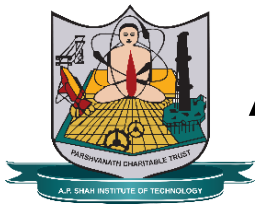
```
D:\APSIT-JAN-2025\MAD-2025\PWA\reactjsproject\ecommerce-ui> git remote -v
```

If no remote is listed, add one:

git remote add origin <https://github.com/your-username/your-repo-name.git>

```
PS D:\APSIT-JAN-2025\MAD-2025\PWA\reactjsproject\ecommerce-ui> git remote add origin https://github.com/sujataoak799/deployecommercewp.git
```

Then, commit any changes before deploying:



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git add .

git commit -m "Initial commit"

git push origin master

```
PS D:\APSIT-JAN-2025\MAD-2025\PWA\reactjsproject\ecommerce-ui> git add .
warning: in the working copy of 'package-lock.json', LF will be replaced by CRLF the
next time Git touches it
warning: in the working copy of 'package.json', LF will be replaced by CRLF the next
time Git touches it
warning: in the working copy of 'src/App.js', LF will be replaced by CRLF the next ti
me Git touches it
warning: in the working copy of 'postcss.config.js', LF will be replaced by CRLF the
next time Git touches it
warning: in the working copy of 'tailwind.config.js', LF will be replaced by CRLF the
next time Git touches it
```

```
PS D:\APSIT-JAN-2025\MAD-2025\PWA\reactjsproject\ecommerce-ui> git commit -m "Initial
commit"
[master d220682] Initial commit
11 files changed, 850 insertions(+), 18 deletions(-)
create mode 100644 postcss.config.js
create mode 100644 src/assets/laptop.jpg
create mode 100644 src/assets/smartphone.jpg
create mode 100644 src/components/Footer.js
create mode 100644 src/components/Navbar.js
create mode 100644 src/components/ProductList.js
create mode 100644 src/pages/Home.js
create mode 100644 tailwind.config.js
```

```
PS D:\APSIT-JAN-2025\MAD-2025\PWA\reactjsproject\ecommerce-ui> git status
>>
On branch master
nothing to commit, working tree clean
PS D:\APSIT-JAN-2025\MAD-2025\PWA\reactjsproject\ecommerce-ui> git init
Reinitialized existing Git repository in D:/APSIT-JAN-2025/MAD-2025/PWA/reactjsprojec
t/ecommerce-ui/.git/
PS D:\APSIT-JAN-2025\MAD-2025\PWA\reactjsproject\ecommerce-ui> git branch
* master
```



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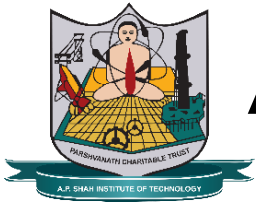
```
PS D:\APSIT-JAN-2025\MAD-2025\PWA\reactjsproject\ecommerce-ui> git push origin master
Enumerating objects: 39, done.
Counting objects: 100% (39/39), done.
Delta compression using up to 12 threads
Compressing objects: 100% (38/38), done.
Writing objects: 100% (39/39), 193.77 KiB | 9.69 MiB/s, done.
Total 39 (delta 4), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (4/4), done.
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
remote:   https://github.com/sujataoak799/deployecommercewp/pull/new/master
remote:
To https://github.com/sujataoak799/deployecommercewp.git
 * [new branch]      master -> master
```

GitHub repository page for **deployecommercewp** by **sujataoak799**. The repository is public and has 3 branches and 0 tags. The master branch has recent pushes 25 minutes ago. The initial commit by **sujataoak799** 41 minutes ago includes a README.md file. The README content is visible, describing the project as a fully functional e-commerce web application.

## Step 2: Update package.json

Modify your package.json file to include the following:

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1. Add the homepage URL (Replace your-username and your-repo-name with your GitHub details):

"homepage": <https://your-username.github.io/your-repo-name/>

```
ecommerce-ui > {} package.json > {} scripts > [abc] deploy
You, 6 minutes ago | 1 author (You)
1  {
2    "name": "ecommerce-ui",
3    "version": "0.1.0",
4    "private": true,
5    "homepage": "https://sujataoak799.github.io/deployecommercewp",
6    "dependencies": {
```

Modify scripts:

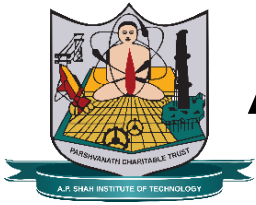
Add the following deployment scripts under "scripts":

"predeploy": "npm run build",

"deploy": "gh-pages -d build"

```
"scripts": {
  "start": "react-scripts start",
  "build": "react-scripts build",
  "test": "react-scripts test",
  "eject": "react-scripts eject",
  "predeploy": "npm run build",
  "deploy": "gh-pages -d build"
},
```

**Step 3: Build the Project**



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Before deploying, make sure the project is built properly:

**npm run build**

This will generate a build/ folder, which contains optimized files for deployment.

```
PS D:\APSIT-JAN-2025\MAD-2025\PWA\reactjsproject\ecommerce-ui> npm run build

> ecommerce-ui@0.1.0 build
> react-scripts build

Creating an optimized production build...

warn - The `content` option in your Tailwind CSS configuration is missing or empty.
warn - Configure your content sources or your generated CSS will be missing styles.
warn - https://tailwindcss.com/docs/content-configuration
Compiled successfully.
```

## Step 4: Deploy to GitHub Pages

Run the following command to deploy:

**npm run deploy**

This will publish the build/ folder to the gh-pages branch of your GitHub repository.

```
PS D:\APSIT-JAN-2025\MAD-2025\PWA\reactjsproject\ecommerce-ui> npm run deploy

> ecommerce-ui@0.1.0 predeploy
> npm run build

> ecommerce-ui@0.1.0 build
> react-scripts build

Creating an optimized production build...

warn - The `content` option in your Tailwind CSS configuration is missing or empty.
warn - Configure your content sources or your generated CSS will be missing styles.
warn - https://tailwindcss.com/docs/content-configuration
Compiled successfully.
```





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## Step 5: Configure GitHub Pages

1. Go to your GitHub Repository
2. Click on Settings → Scroll down to Pages
3. Under Source, select gh-pages branch and click Save

github.com/sujataoak799/deployecommercewp/settings/pages

Course Modules: A... GDB online Debugg... ICAISI-2025 Internat...

sujataoak799 / deployecommercewp

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

General

Access

Collaborators

Moderation options

Code and automation

Branches

Tags

Rules

Actions

Webhooks

Environments

Codespaces

Pages

### GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a Git

Your site is live at <https://sujataoak799.github.io/deployecommercewp/>  
Last deployed by [sujataoak799](#) 26 minutes ago

### Build and deployment

Source

Deploy from a branch

Branch

Your GitHub Pages site is currently being built from the gh-pages branch. [Learn more about source for your site.](#)

gh-pages / (root) Save

Learn how to [add a Jekyll theme](#) to your site.

## Step 6: Verify Deployment

- Wait for a few minutes and visit your PWA at: <https://your-username.github.io/your-repo-name/>

<https://sujataoak799.github.io/deployecommercewp/>

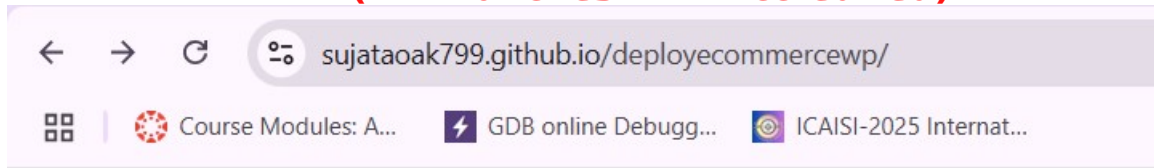




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## ShopEasy

### Featured Products



#### Laptop

\$999

Add to Cart



#### Smartphone

\$699

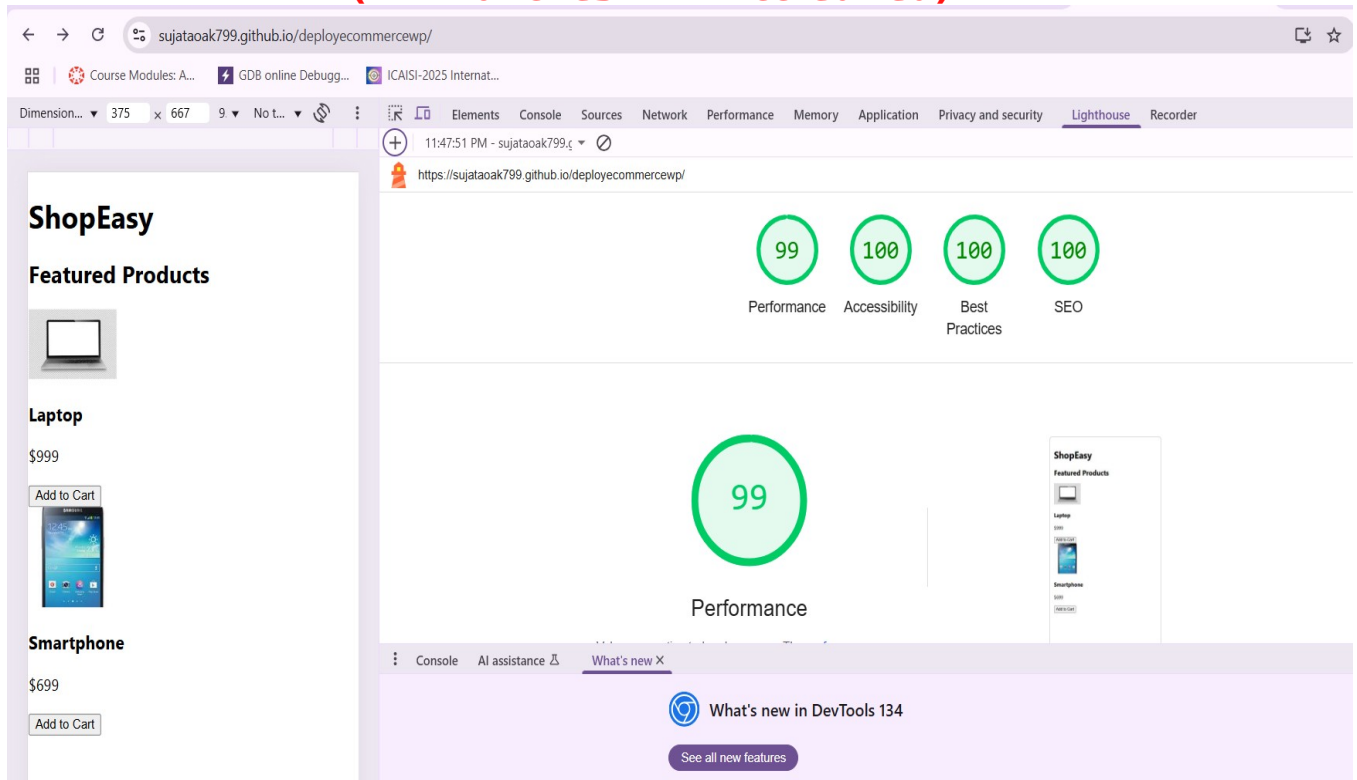
Add to Cart

Open Chrome DevTools → Lighthouse to verify PWA performance.



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## Conclusion:

By following these steps, your E-commerce PWA is successfully deployed to GitHub Pages. Users can install it like a native app, access it offline, and enjoy a fast & smooth shopping experience.