



SEVEN ACADEMY
First-class IT Training institute in Cameroon

A. THEORY SECTION (30 marks)

HTML & CSS (15 marks)

- What is the difference between relative and absolute positioning in CSS? (2 marks)
- Explain the difference between Grid and Flexbox. When would you use one over the other? (2 marks)
- In CSS Grid, explain what these terms mean:
 - grid-template-columns
 - grid-gap
 - grid-area (3 marks)
- Describe the purpose of the following table elements:
 - thead
 - colspan
 - caption (3 marks)
- What is z-index and how does it work with positioned elements? (2 marks)
- Explain the difference between grid-template-areas and grid-area. (3 marks)

Git & GitHub (15 marks)

- What is the difference between Git and GitHub? (2 marks)

- Explain these Git commands:
 - git checkout
 - git merge
 - git pull
- What is the purpose of .gitignore file? Provide three examples of what you might include in it. (3 marks)
- Describe the process of resolving a merge conflict. (3 marks)
- What is the difference between 'git merge' and 'git rebase'? (2 marks)
- Explain what a Pull Request is and its importance in collaborative development. (2 marks)

B. PRACTICAL SECTION (70 marks)

HTML & CSS Practice (35 marks)

Create a responsive webpage that demonstrates your understanding of positioning, tables, and grid. Your page should include:

- Navigation Section (10 marks)

html

Copy

- Create a fixed navigation bar at the top
- Include 4 navigation items
- On mobile, the navigation should become a hamburger menu

- Grid Layout Section (15 marks)

html

Copy

- Create a grid layout with 6 cards
- Each card should contain an image and text
- The grid should be 3 columns on desktop
- 2 columns on tablet
- 1 column on mobile

- Table Section (10 marks)

html

Copy

Create a responsive table showing:

- Student grades for 5 subjects
- Include thead, tbody
- Use colspan for header sections
- Make it scrollable on mobile

Git & GitHub Practice (35 marks)

Complete the following practical tasks:

- Repository Setup (10 marks)

bash

Copy

- Initialize a new Git repository
- Create a new remote repository on GitHub
- Connect your `local` repo to the remote
- Create a `.gitignore` file with appropriate rules
- Create a `README.md` with project description

- Branch Management (15 marks)

bash

Copy

- Create a feature branch called `'feature/add-login'`
- Make 3 commits `in` this branch
- Create another branch `'feature/add-signup'`
- Make 2 commits `in` this branch
- Merge `'feature/add-login'` into main
- Rebase `'feature/add-signup'` onto main

- Collaboration Simulation (10 marks)

bash

Copy

- Fork a given repository
- Clone your forked repository
- Create a new branch
- Make changes and commit them
- Create a Pull Request to the original repository

- Review and comment on a colleague's [Pull Request](#)

Submission Guidelines:

- Theory section should be submitted as a markdown file
- Practical work should be pushed to a GitHub repository
- Include screenshots of your completed webpage
- Submit all Git commands used in a separate file

Grading Criteria:

- Code cleanliness and organization
- Proper use of Git commits with meaningful messages
- Responsive design implementation
- Proper implementation of positioning concepts
- Correct usage of Git branching strategy
- Documentation quality

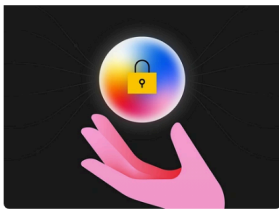
Clone this (hehehehe):

Submit by git repo

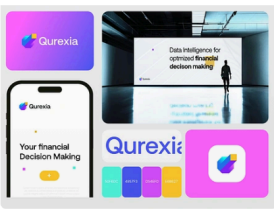
Email: tatohmodest@gmail.com



Rafael Serra PRO 13 3.2k



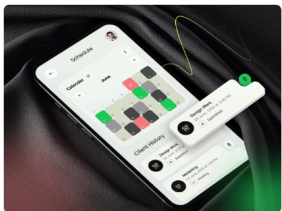
Mia Ditmanson 21 1.4k



Ahmed Rumon PRO 35 581



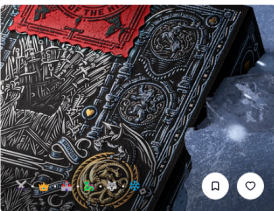
Ramotion TEAM 86 5k



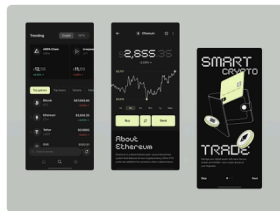
Upnow Studio TEAM 46 2.7k



Extelj UI UX Design Agency PRO 336 10.9k



Peter Voith PRO 55 14k



Emote TEAM 28 11k