

Last updated: 24-12-2023

Thank you for your interest in the full stack development role at Augenblick.

Below is a short code assessment exercise.

General Instructions

- Email your response to augenblickconsulting@gmail.com
- Answers to multiple choice questions and short answer questions to be listed with appropriate question number in the email response.
- Answers requiring code to be submitted should be shared in a git repository. Please share ALL your code files (including rough work) with the output. Share code as a GitHub link (or any other way like BitBucket or GitLab).
- You can code in the language of your choice, preferably Python or TypeScript
- The entire exercise should ideally not take more than 3 hours.
- It is not mandatory to do it in one sitting.
- In your response email, please provide a brief description of the resources you utilized (e.g., ChatGPT, another website, or no websites at all) and the difficulties or eases you encountered.
- Specify how much time you devoted to it in your reply email.
- If you cannot adhere to the deadline, and need more time, please request in advance.
- Be honest in your response 😊



Git basics (estimated time required 5 minutes)

- 1. Single correct answer question: What command is used to rewrite commit history and maintain a linear project history by incorporating changes from one branch into another?
 - A) git merge
 - B) git rebase
 - C) git commit
 - D) git log
- 2. Single correct answer question: To selectively apply a specific commit from one branch to another, which Git command should be used?
 - A) git commit --cherry-pick
 - B) git revert
 - C) git branch
 - D) git apply
- 3. Single correct answer question: Which Git command facilitates the creation of multiple isolated working directories for the same repository?
 - A) git switch
 - B) git branch
 - C) git worktree
 - D) git clone
- Short answer question: You encounter a merge conflict while merging a feature branch into the main branch. How will you address it. Write the git commands in appropriate order.

Programming problem solving (estimated time required 2 hours)

5. Coding question: Click the below link and solve the problem. Submit the correct output and code in a git repository link.

Click here: Problem 1

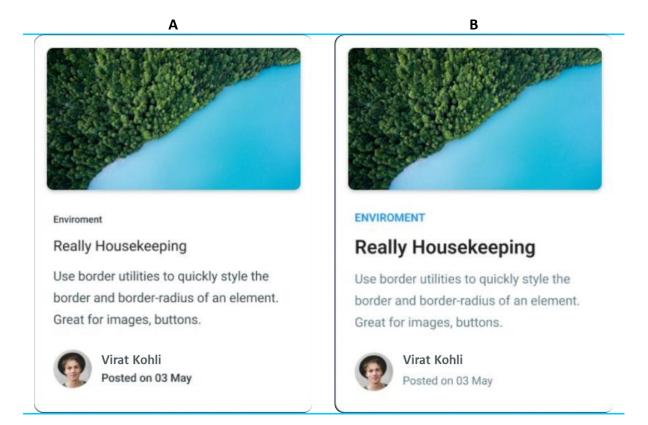
6. Coding question: Go to the following link and solve the problem. Submit the correct output and code in a git repository link.

Click here: Problem 2



Design understanding (estimated time 5 minutes)

- 7. Short answer question: You have to design a card with React. Which of the two would you design. Also write down your reasoning for your answer.
 - A) Either A or B
 - B) A only
 - C) B only
 - D) I do not know



- 8. Single correct answer question: What is the name of the React Hook that lets a component read the value of a context?
 - A) useProvider
 - B) useConsumer
 - C) useContext
 - D) useData
- 9. Multiple correct answer question: When selecting and using third-party UI component libraries in a React project, what factors should be considered to maintain a consistent and user-friendly design?
 - A) Assess the library's customization options
 - B) Evaluate community support and updates
 - C) Consider the library's impact on the overall bundle size
 - D) I do not know



- 10. Multiple correct answer question: When optimizing the performance of a React application, which strategies can help reduce the bundle size and improve load times?
 - A) Code splitting
 - B) Tree shaking
 - C) Minification
 - D) Inline all styles
 - E) I do not know
- 11. Multiple correct answer question: When incorporating internationalization (i18n) in a React application, which practices contribute to a better user experience for users from diverse linguistic backgrounds?
 - A) Use a library like react-intl for message translation
 - B) Store translatable strings in separate JSON files
 - C) Rely solely on browser-based language detection
 - D) Ensure text is not embedded in images for translation flexibility
 - E) I do not know

Thank you for your time!