

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
4. **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

| A | B |
|---|--|
|  <p>Enviroment</p> <p>Really Housekeeping</p> <p>Use border utilities to quickly style the border and border-radius of an element. Great for images, buttons.</p> <p> Virat Kohli Posted on 03 May</p> |  <p>ENVIROMENT</p> <p>Really Housekeeping</p> <p>Use border utilities to quickly style the border and border-radius of an element. Great for images, buttons.</p> <p> Virat Kohli Posted on 03 May</p> |

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!