

HACKTHONIX

QR Attendance System Campus Automation

CODE CRAFTERS

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Key Features of QR Attendance System:

QR Code Generation:

Automatic Attendance Marking:

Time-based Attendance:

Real-Time Reports:



Problem

Technical Issues with QR Code Scanning

Device Compatibility:

- Not all students may have smartphones capable of scanning QR codes, or their devices may have issues such as a low-quality camera, outdated software, or insufficient memory.
- If students do not have access to smartphones or modern devices, they may not be able to mark their attendance

Security Concerns

☐ **Privacy Risks:**

- QR codes can store sensitive information such as student IDs or class schedules. If the system does not properly secure this data, it could be vulnerable to hacking or unauthorized access.
- Students may be concerned about privacy, especially if their personal data is being transmitted through insecure channels without adequate encryption.

Solution

☐ **Enhance Device Compatibility and Quality Control**

• **Develop Cross-Platform Compatibility:**

- Ensure the QR attendance system works on all devices, including Android, iOS, tablets, and even laptops. This guarantees accessibility for a larger group of students, regardless of the type of device they use.
- Implement a responsive app interface that adapts to different screen sizes and devices, ensuring smooth scanning experiences for all users.

• **Improve QR Code Visibility:**

- Ensure QR codes are large, high-quality, and displayed clearly in the classroom, ideally on the front board or projector. You could use a projector or large displays to show the QR code in clear view.

CHALLENGES

Technical Issues with QR Code Scanning:

- Device Compatibility
- Connectivity Issues
- QR Code Display Visibility
-

Security and Privacy Concerns:

Data Privacy

Proxy Attendance

Authentication Issues



QR codes



CHALLENGES OF QR CODE ATTAINDEANCE

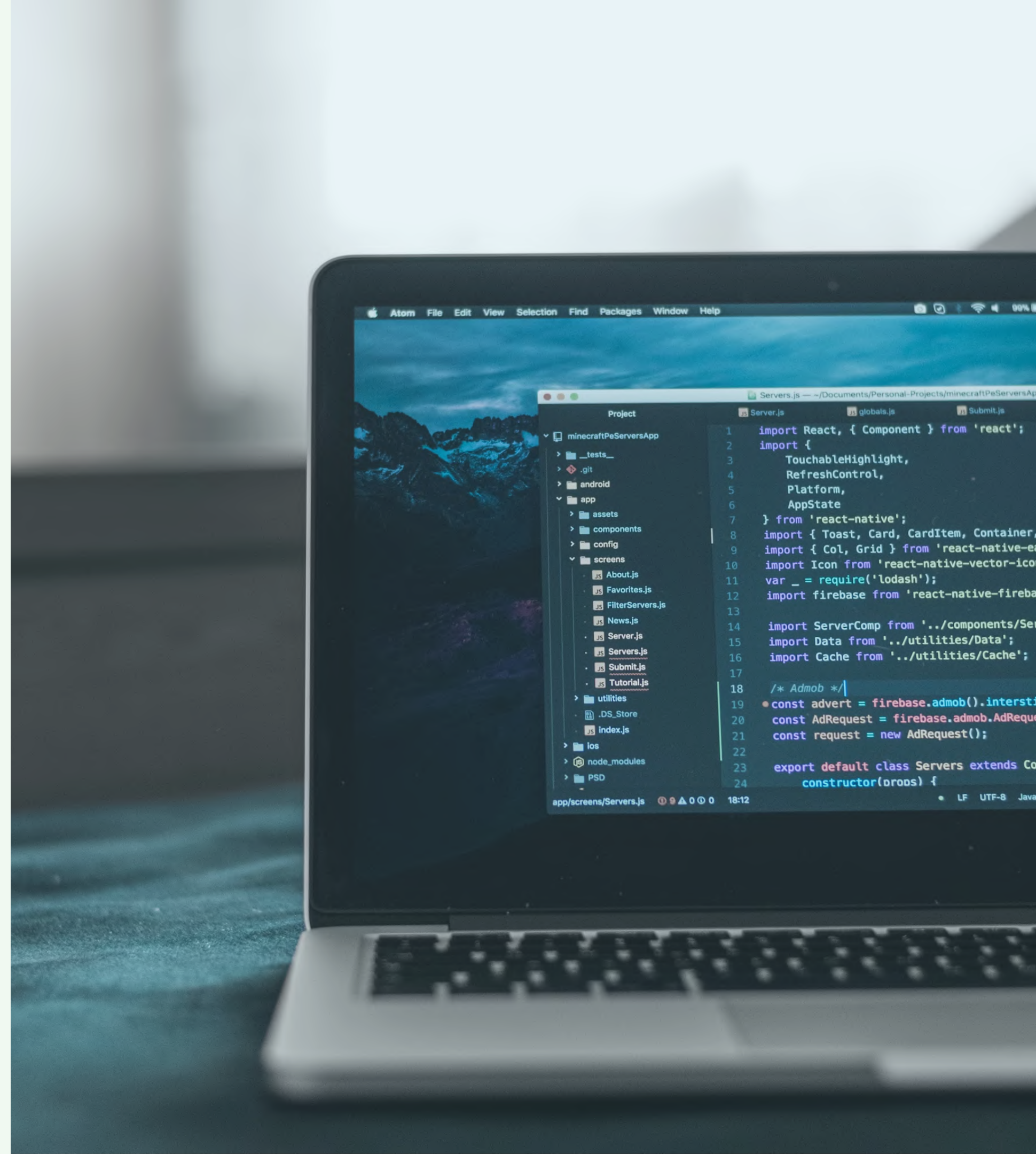
Future Scope of QR Code-based Attendance Systems

AI-based Attendance Analytics:

- Blockchain-based Attendance Records
- Cross-Platform and Cross-Device Compatibility
- Integration with Geolocation:

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Conclusion:

This QR code-based system offers a simple yet powerful way to automate attendance in classrooms. By integrating QR codes with Google Sheets, you can eliminate manual attendance-taking, improve efficiency, and generate real-time reports



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