

Republic of the Philippines

DAVAO ORIENTAL STATE UNIVERSITY

Guang-guang, Dahican, City of Mati, Davao Oriental

Faculty of Computing, Data Sciences, Engineering and Technology

Information Technology Program

Project X

Automated Attendance System

BSIT 3C

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**RESEARCH**

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| **Question** | **Research** |
| **How do we handle wrong logins?** | * **Show error message if username/password is wrong. Don’t let them in.** |
| **How to Use GIT** | **Watch youtube videos and/or use chatgpt and enter a prompt**  **Youtube link used:** [**https://www.youtube.com/watch?v=hwP7WQkmECE&t=9s**](https://www.youtube.com/watch?v=hwP7WQkmECE&t=9s) |
| **What is a QR code?** | **Search on Google the definition**  **A QR code (Quick Response code) is a type of two-dimensional barcode that can store a large amount of information in a small square image made up of black and white pixels. Unlike traditional barcodes that can only be read in one direction, QR codes can be scanned both horizontally and vertically, allowing them to hold more data.** |
| **What are the advantages of the technologies used in this project?** | **Search the pros of the technologies used in Project X**  **• React Native (for cross-platform mobile app) • Node.js/Express (fast and lightweight backend) • MongoDB (flexible NoSQL storage for user and attendance data)** |
| **How does the system use unique QR codes for every student?** | **Each student gets a unique QR code generated by the system. This QR code contains their specific ID or token, so when scanned, the app can identify exactly which student is marking attendance. This prevents sharing or copying codes between students, making attendance tracking more secure and accurate.** |