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Github link: <https://github.com/kitkat6410/COSC-310-Project-Personal>

**Feature 1**

The first feature was implemented using Abstract API Geolocation service. The service sends many parameters using JSON. I used city, region\_geoname\_id, and security > is\_vpn. If the user is located within British Columbia and is not using a VPN, a screen with the city name of the user will show saying “Welcome (city name) User!”. If the user is not within British Columbia, the system will tell the user that it can only be used within British Columbia. The user can retry their connection using the retry button. If they are within British Columbia they can press the continue button to get to the Access Pending page.

**Feature 2**

For the second feature, I used Firebase API Phone Verification OTP. This feature required a new type of user called Supervisor who has access to all doors. After 5 failed attempts, the system is locked the Supervisor Required Screen appears. Users will not be able to scan NFC cards until a Supervisor scans and follows the necessary procedures. First, the Supervisor will have to input a special password along with their phone number. The system will then verify the information and send a one-time password to their phone number if successful. Then, they will have to input this code to get the system up and running again.