

AUTOMATED CONFIGURED ROUTER FOR CONTROLLED SHARING WiFi FOR INTERNET GUESTS

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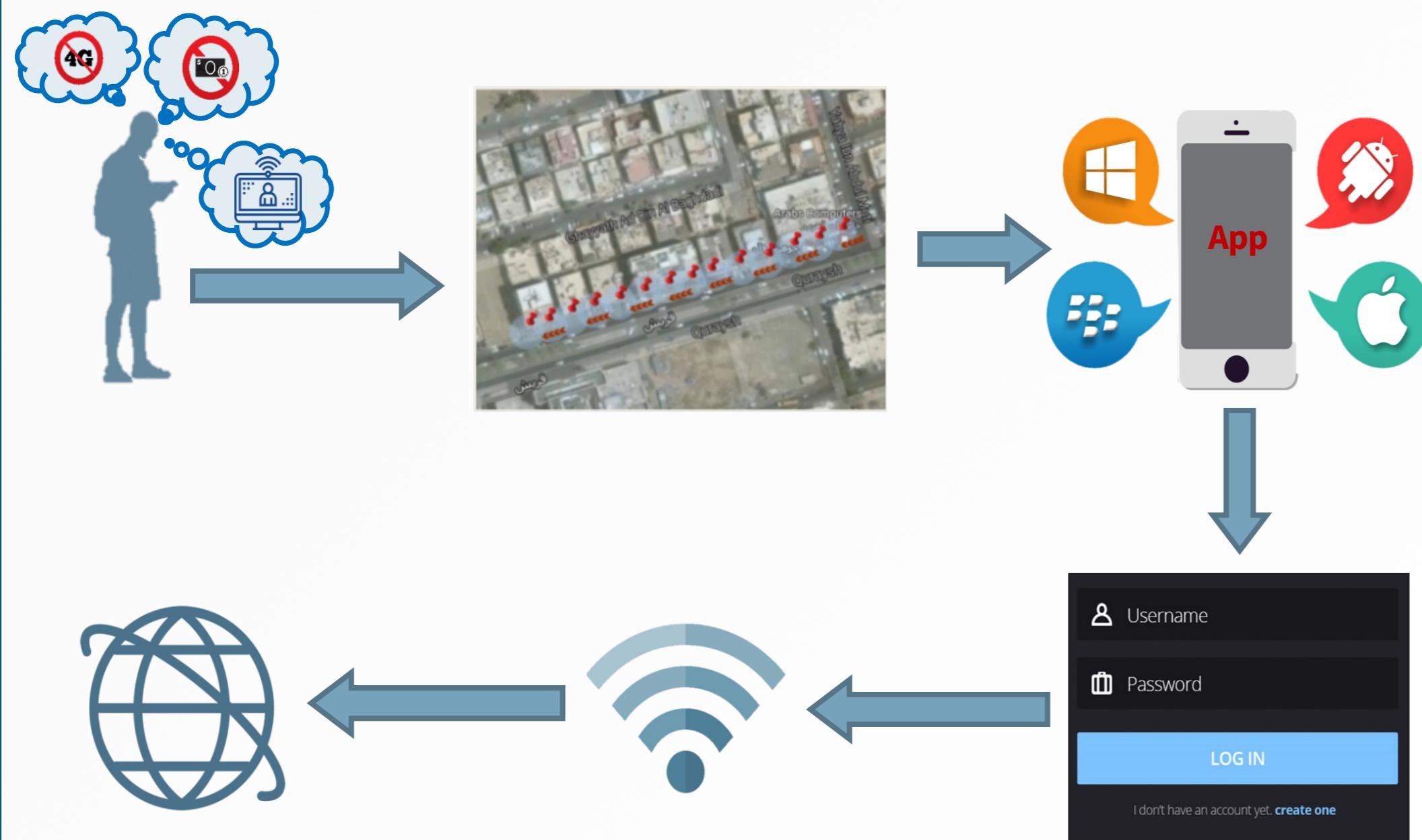
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ABSTRACT

PROBLEM: THE NEED OF IMMEDIATE OUT-DOORS INTERNET ACCESS FOR EMERGENCY USES, WHILE THE 4G IS NOT AVAILABLE FOR ANY REASON.

SOLUTION: CLIENT-SERVER APP WHERE THE SERVER CREATE FRAMEWORK TO CONFIGURE ROUTER IN ORDER TO PROVIDE INTERNET ACCESS.



RESULTS

APPLICATION CAN BE USED TO CONTROL INTERNET ACCESS FOR USERS. (SYSTEMATICALLY AND SECURELY)

USER CAN FIND OUTDOORS INTERNET ACCESS (HIGH SPEED, UNLIMITED ACCESS AND LOW-COST)

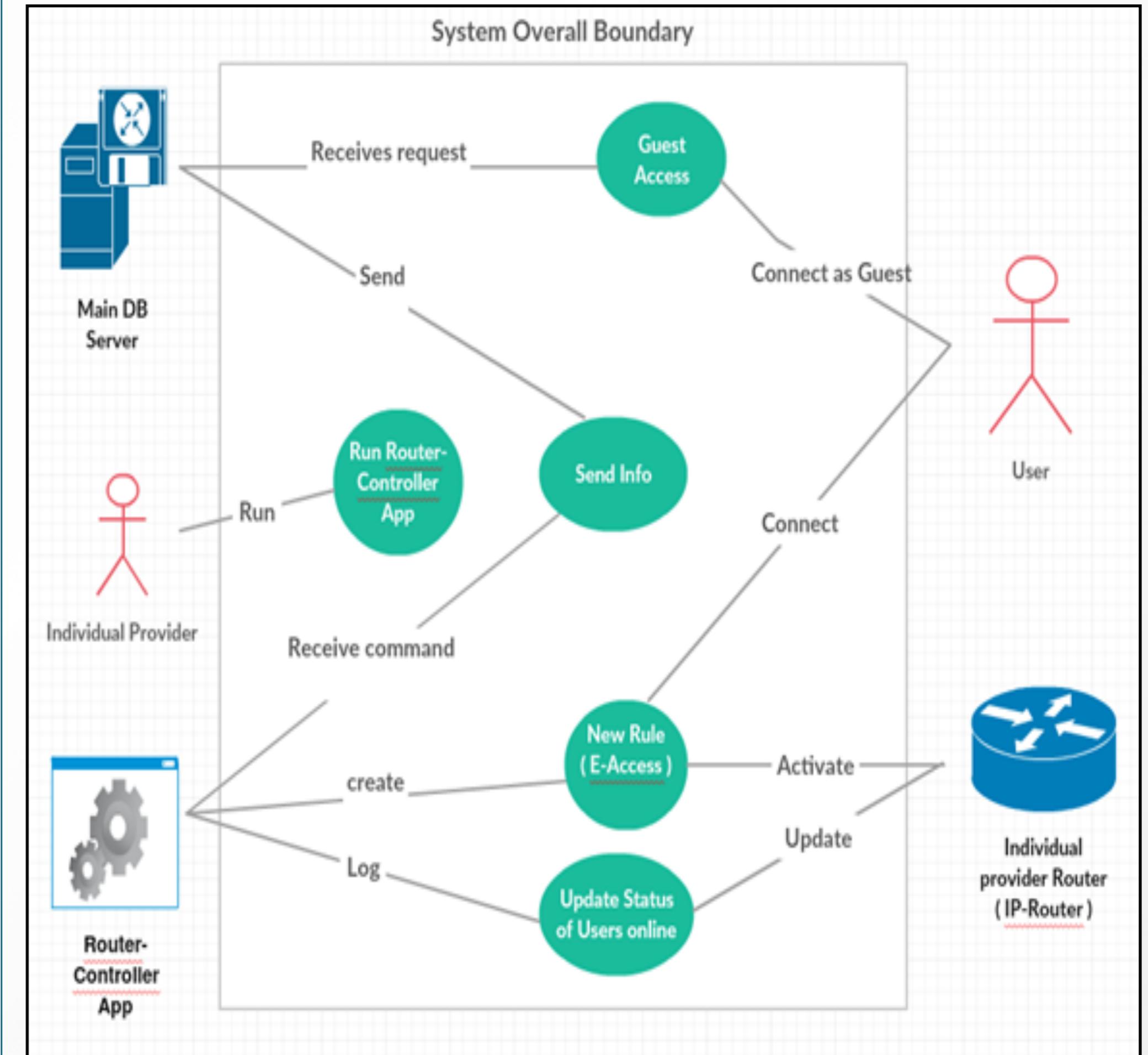
SYSTEM DESIGN

USER:- MOBILE APP (CLIENT) CONNECTS TO THE ROUTER VIA SERVER APP.

IISP:- PROVIDE INTERNET ACCESS BASED ON THE USER'S CREDIT.

MAIN DB:- HANDLING AND MANAGING INTERNET ACCESS VALIDATION FOR USERS.

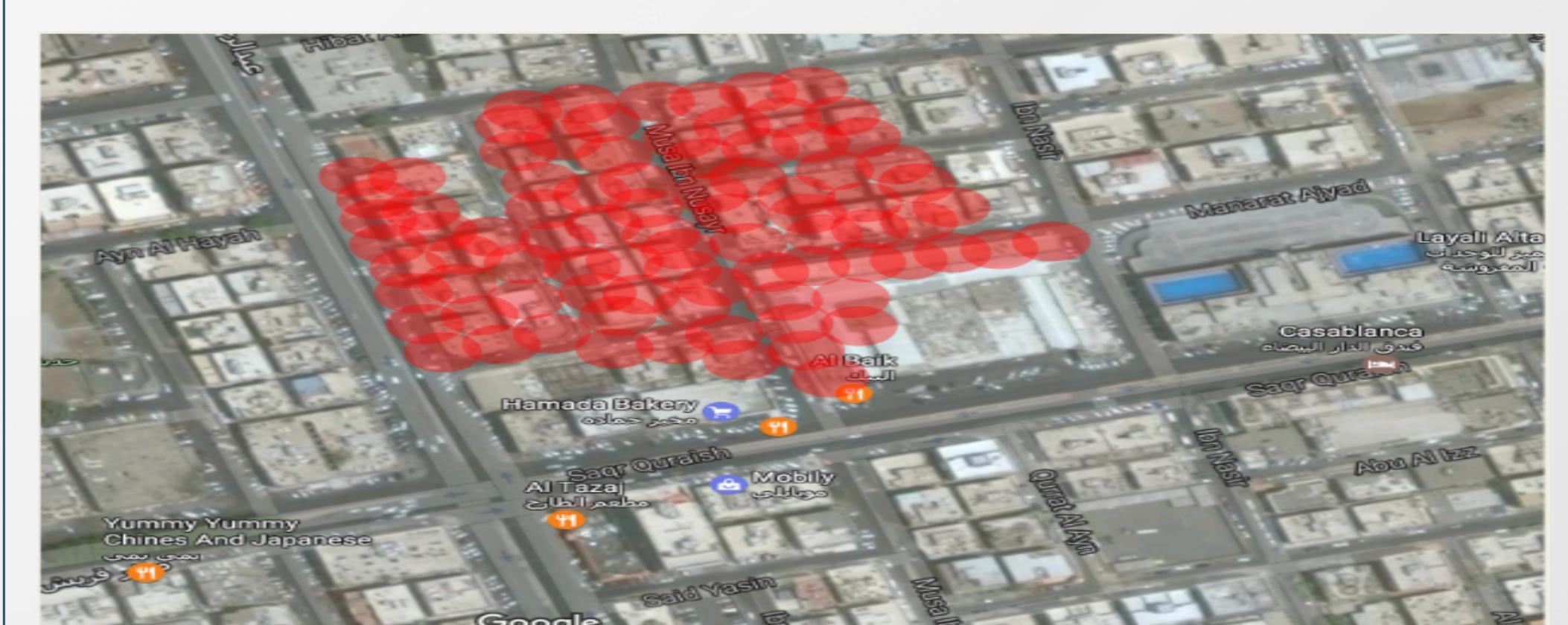
ROUTER APP:- ADMINISTERED BY IISP AND MANAGED INTERNET ACCESS FOR USERS. NETMIKO, A PYTHON API LIBRARY IS USED TO DOMINATE THE ROUTER(USAGE, COST, SECURITY).



CONCLUSION

AFTER APPLYING THE SYSTEM ON MANY ADJACENT IISP'S, AN INFRASTRUCTURE WILL BE IMPLEMENTED TO APPLY SMART CITY.

OPEN SOURCE FRAMEWORK CAN BE SHARED FOR DEVELOPERS TO CREATE ANY SMART CITY PROJECTS.



REFERENCES

NETMIKO:

[HTTPS://PYPI.PYTHON.ORG/PYPI/NETMIKO/](https://pypi.python.org/pypi/netmiko/)

CISCO: [HTTP://WWW.CISCO.COM/](http://www.cisco.com/)

