

Light - Sound Sensing Alert System

NYU Courant

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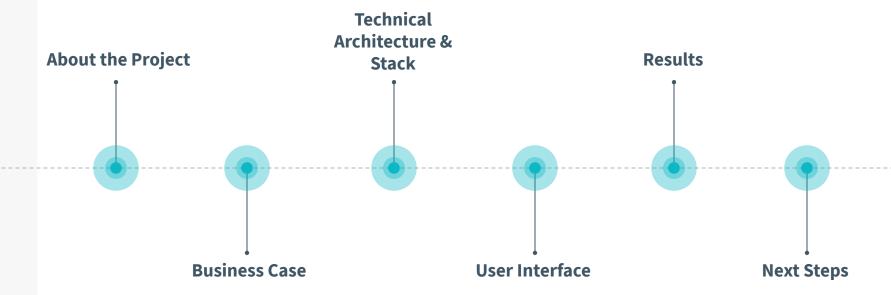


Affiliation

Professor / Mentor:

Dr. Jean Claude Franchitti

Agenda



About the Project

- Utilize the fast-developing cloud technology and IoT system for a better lifestyle
- Light and Sound sensing and alerting system
 - A pipeline which reads the data from mobile devices
 - Sends the information to the cloud.
 - The information is then processed on the cloud server
 - send a notification of the subscribe system (email or sms) if the user is in non conducive environment based of the algorithm
- Primary cloud computing platform: AWS

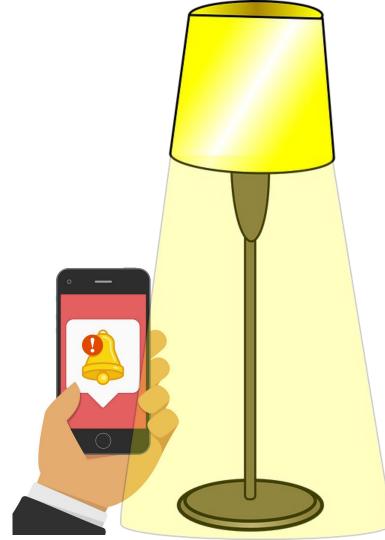
Business Use Cases

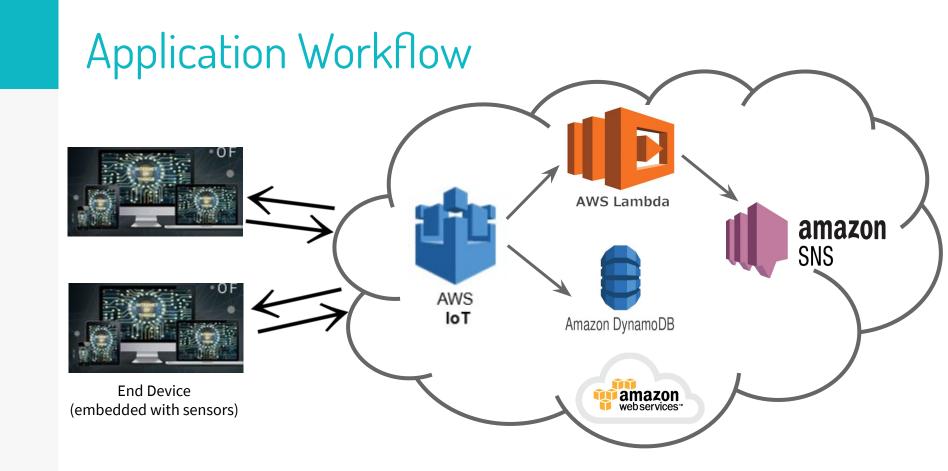


A mobile device which reads in the data of light and sound intensity in the room (Hospital Environment

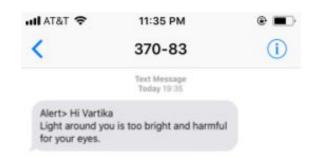


A simple notification is sent of the user's device if the person is in an environment which has light or sound beyond the optimal range





User Interface





SMS notification result

Next Steps

- > This application can further be extended into
 - Temperature sensing and
 - The duration of which a person has been subjected to non conducive lighting and sound levels.
- From a technology standpoint, the application can be extended incorporating big data technologies and data analytics.
- > With the help of data mining and analytics we can generate report and insights for user behavior.
 - Like the duration for which a patient was in low or high-intensity light
 - Predict possible negative impact of the user's health.

THANK YOU!