IoT Parking Management System

Status: Filled

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Project Description

Nowadays, since more people have their own vehicles, parking becomes very a limited resource. According to SFU website, parking is restricted to only levels P3 and P4 in the West Parkade at Central City Mall as well as the Rooftop parking, which is around 300-500 parking spots available. It comes to our attention that this limitation of parking spots has become wasting so much time for students that often causes frustration especially during exam periods. Thus, this issue leads our group to find the better solution. We have come up with an idea to integrate Internet of Things (IoT), embedded systems, and modern web application to help people find parking easier and better understand the ideal time to secure a spot.

Deliverables

Month 1: January	Research and gather project materials
Month 2: February	Sensor interfacing and connect all the hardware
Month 3: March	Complete the hardware part: IoT and embedded system
Month 4: April	Complete Backend and API of the web applications
Month 5: May	Complete Frontend, UI designs of the web app

Month 6: June	Final phase of development and testing, tackle all bugs
Month 7: July	Build prototype and optimize the system. Deploy codes to server
Month 8: August	Project documentations and prepare for demo