



Abu Dhabi Polytechnic

Students' Graduation Project Abstract

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| Department: | ISET | Semester: | Spring-2022 |
| Project Title: | Implementing Blockchain for Smart Parking System | | |
| Supervisor: | Dr. Deepa Pavithran | | |

Abstract:

Nowadays with the rising number of personal vehicles, finding a parking space has become an issue for many residents. Advancements in technologies like Internet of Things (IoT) have helped to maximize the productivity and reliability of urban infrastructure. We propose an online parking rent system to reserve a parking space for the residents and other users, via a blockchain on the Ethereum platform which uses a non-fungible token as currency and a barcode for ease of use. A barcode will be provided while reserving the parking space, and is used when unlocking the bollards. This will help residents to save time by knowing their parking spot and they do not have to search for parking space.