SMART PARKING

PROJECT 6

INTRODUCTION

In urban and crowded areas, finding convenient and available parking spaces is a persistent challenge. This leads to frustrating traffic congestion, wasted time and increased fuel consumption. Smart parking uses sensors, digital payments and reservations reduce congestion, and improve the urban parking experience.

SOLUTION

1.Sensors:

- Installing sensors in parking spaces that can continuously monitor parking space availability and transmit data to a central management system.

2. Real-Time Data Dissemination:

- Developing a central management system that collects data from sensors and makes it available to drivers through mobile app.

3. Digital Payments:

- Implementing digital payment options that allow drivers to pay for parking electronically.

4. Reservations:

- Implementing a reservation system that allows users to choose a specific parking spot and time slot, providing convenience and reducing uncertainty.

5.Dynamic pricing:

- Implementing dynamic pricing models that adjust parking fees based on demand, occupancy rates, time of day etc..

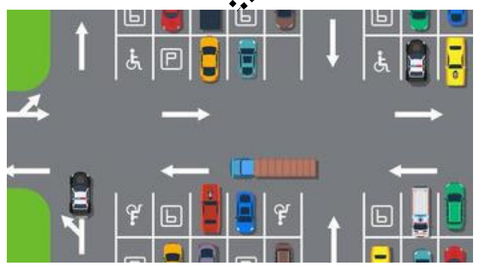
6. Traffic Flow Improvement:

- By efficiently guiding drivers to available parking spaces, smart parking systems contribute to reducing traffic congestion in urban areas.
- Drivers spend less time searching for parking, which leads to reduced emissions and fuel consumption.

BLOCK DIAGRAM

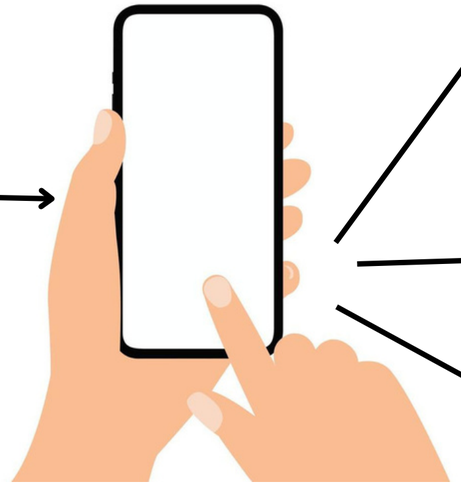
Continuously monitors the availability of parking space

sensors



Parking space

Data from sensors

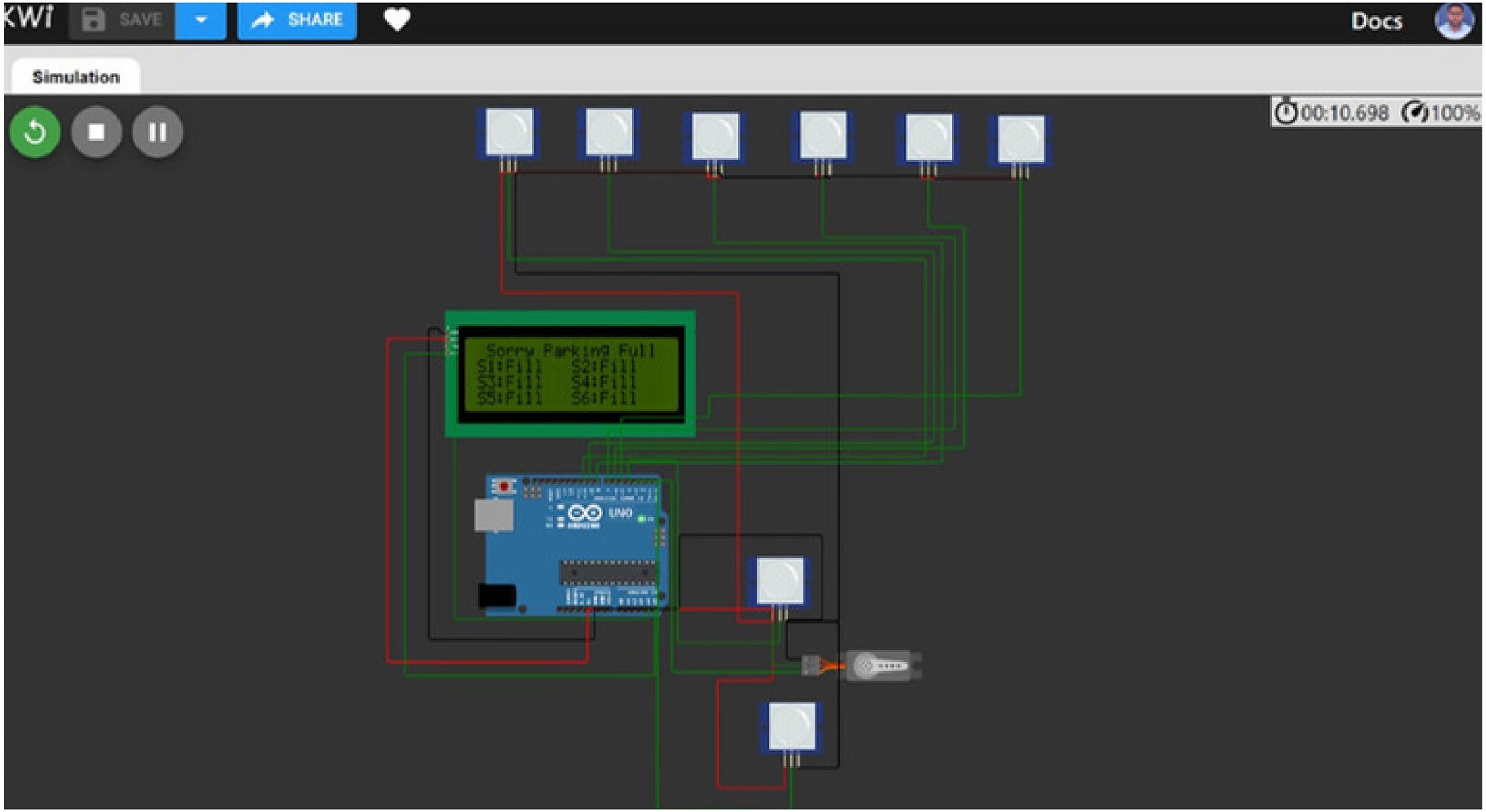


Mobile app

Pre-reservation

Digital payment

Dynamic pricing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PROTOTYPE

THANK YOU