**Smart Traffic & Parking System Project – Team Worksheet**

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| **Member** | **Role / Work Done** | **Time Spent (Approx.)** |
| Salma | Web App Development – Designed and implemented the Flutter/Web dashboard, login/signup pages, real-time display of traffic & parking data, and controls for parking gate. | 50 hours |
| Fajr | ESP32 & Parking System – Programmed ESP32 to read IR sensors, control servo motor for gate, manage parking logic, display available spots on LCD, and send/receive MQTT messages. | 50 hours |
| Mariam | ESP32 & Traffic System – Programmed traffic lights logic using ultrasonic sensors for congestion detection, timed green/yellow/red signals, and integrated sensors with ESP32. | 40 hours |
| Arwa | Integration & Documentation – Connected parking and traffic systems, tested full setup, created Wokwi simulation, wrote comments for ESP32 code, and prepared presentation slides. | 40 hours |

**Notes:**

* All members collaborated on testing, debugging, and final demonstration.
* Hours are approximate and include coding, testing, and meetings.