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| **SMART PARKING**  **DEFFINITION:**    Smart parking refers to an advanced and technology-driven approach to managing parking spaces efficiently. It utilizes various sensors, data analytics, and digital interfaces to provide real-time information about parking space availability, enable convenient reservations and payments, and enhance the overall parking experience for users. Smart parking systems aim to reduce congestion, minimize the time spent searching for parking, and improve urban mobility by optimizing the utilization of parking resources.  **DESIGN THINGS:**   * **16X2** LCD Module with 12C interface * **IR** proximity sensor * Servo Motor.   **16X2 LCD Module with 12C interface:**    This component is used to seeing the parking space to park the vechicle.  **IR proximity sensor:**    Infrared sensors are commonly found in automatic doors. They detect the presence of a person approaching the door and trigger it to open.  **Servo Motor:**    This component act like a door open and closing equipment. |
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