FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)

Hormis Nagar, Mookkannoor PO, Angamaly, Kochi
Accredited by NAAC with 'A+' Grade

DEPARTMENT OF COMPUTER APPLICATIONS

SYNOPSIS OF THE MAIN PROJECT

Name of the Student	Priyanka N
Batch & Roll Number	B 29
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Name of Project Guide	Dr.Rakhi Venugopal
GitHub ID	https://github.com/Priyankas1mca
Project Title	Pre-booking Parking Area System
Area of the Project	Web Application
Date of Submission	10-01-2025

Description of Project:

The **Smart Parking System** is a fully web-based application developed using Django as the backend framework to streamline parking management in malls and shops. This system enables users to prebook parking slots by selecting the desired date, time, and duration, ensuring convenience and reducing the stress of searching for parking spaces. The platform features an admin panel for managing parking costs and monitoring real-time slot availability.

The system incorporates advanced features to optimize slot management. Parking slots are updated daily to ensure outdated reservations are reset and freed based on the current date and time. Additionally, slots are automatically released once the user's booked time expires, making them available for new bookings without manual intervention. These automated features enhance resource utilization and improve system efficiency.

By leveraging Django's robust backend capabilities and an interactive web-based interface, the Smart Parking System delivers a comprehensive and efficient solution for parking management while prioritizing user convenience and administrative functionality.

Front End & Back End Tools	HTML, CSS, JAVASCRIPT, JQUERY, DJANGO, SQLITE3