

UNIVERSITY OF SARGODHA
DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

Capstone Project 2019-20

BSCS 7th self-support

PROJECT IMPLEMENTATION PLAN

Smart Parking Network Modal

Sr.	Milestone Detail	Outcome	Project done %	Roll No #	Member's Contribution	Learning Outcome	Viva
1	Design the interface of Admin panel	Admin panel	10%	BSCSF16E038	Design the interface of Admin panel	Learnt admin panel flow	
				BSCSF16E024	Design the interface to admin panel.	Learnt admin panel flow	
2	We will create the database and the relevant tables (Admin, Staff Record)	Database and tables and insert data of staff table	18%	BSCSF16E038	Create Database and add records	Learnt how to create and add record	
				BSCSF16E024	Edit and Delete Record	Learnt how to edit and delete record	
3	Place the Main Entrance hardware parts (RFID antennas, RFID reader ,barrier with motor Microcontroller) at their relevant position and connect these parts with Main entrance microcontroller.	Main Entrance Hardware Connectivity		BSCSF16E024			
				BSCSF16E038			

Team

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4	Microcontroller will connect to database after coding.	Database connectivity		BSCSF16E038			
				BSCSF16E024			
5	Place all RFID tag at the vehicle windshield	RFID placement		BSCSF16E038			
				BSCSF16E024			
6	Code for when the car comes at main entrance then the RFID reader, read tag and send signal to microcontroller.	Information comes at microcontroller		BSCSF16E038			
7	This information will process and check either its staff car or student car.	Barrier will open or not		BSCSF16E038			
8	Place all the parking hardware parts (RFID reader, RFID antenna, LCD, IR Sensors, Microcontroller) at their relevant position. Connect the IR Sensors with main wire that wire will connect with	Parking hardware connectivity With database		BSCSF16E038			
				BSCSF16E024			

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	microcontroller and this microcontroller will connect to database after code.						
9	This microcontroller will send the slot status information to LCD that how many slots are free	Slot status information		BSCSF16E038			
				BSCSF16E024			
10	This microcontroller will send the slot status information to LCD that how many slots are free	Slot status information		BSCSF16E038			
				BSCSF16E024			
11	Code for when the car comes at parking gate then the RFID reader, read tag and send signal to microcontroller.	Information comes at microcontroller		BSCSF16E038			
				BSCSF16E024			
12	This information will process for staff car or student car	Barrier will be open for staff or student area parking		BSCSF16E038			
				BSCSF16E024			
13	Code for If the car matches from database then it display on screen you have to park in teacher slots otherwise you have to park in student slots.	Relevant parking area display on Screen		BSCSF16E038			
14				BSCSF16E038			

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	Code for If the car matches from database then it display on screen you have to park in teacher slots otherwise you have to park in student slots and barrier will open	Relevant parking display on Screen and barrier open		BSCSF16E024			
				BSCSF16E024			
15	Code for IR sensor if someone leave the parking then barrier open	Barrier open for leave parking		BSCSF16E038			
				BSCSF16E024			

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16	Code for IR sensor when someone leave parking or teacher exit gate then barrier will be open of these exit gates.	Barrier open for exit		BSCSF16E038			
				BSCSF16E024			

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