UNIVERSITY OF SARGODHA
DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

Capstone Project 2019-20 *BSCS 7th Self*

PROJECT IMPLEMENTATION PLAN

Sr.	Milestone Detail	Outcome	Project %	Roll #	Member's Contribution	Learning Outcome	Viva
1	Design of user interface for registration and login	Signup and login page	5%	BSCSF16E034	Signup and login Page Design	Front-end android and its development	
				BSCSF16E030	Signup and Login Page Design	Front-end android and its development	
				BSCSF16E052	Signup and login page Java	Front-end android and its development	
2	Design of user interface for wheelchair application form	Application form to request for wheelchair	10%	BSCSF16E034	Application form to request for wheelchair Design	Complete Design of Application Form	
				BSCSF16E030	Application form to request for wheelchair Code	Complete Functioning Application Form for Wheel Chair	
				BSCSF16E052	Application form to request for wheelchair Documentation	Application Form Working methodology	
3	Design of user interface for wheelchair movement functionality	Display of directions to control wheelchair's movement	20%	BSCSF16E034	Design the Complete interface	Interface of Movement functions	
				BSCSF16E030	Documentation of interface Working	Working Methodology	
				BSCSF16E052	Movement interface Coding	Complete Functioning Interface connected with Microcontroller	
4	Creation of Database for our application	Database	30%	BSCSF16E034	Database Creation and management	Learning of firebase	
				BSCSF16E030	Database setting and managment	Complete working of database managment	

Team

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				BSCSF16E052	Documenting the data	learning of queries	
5	Make wheelchair moveable electrically and mechanically	Wheelchair will become movable	35%	BSCSF16E034	Arduino coding to make it workable	Complete Functioning Interface connected with Arduino	
				BSCSF16E030	Embed suitable motors design Implementation	Learning about circuits and mechanical structure	
				BSCSF16E052	Document working modules	Knowledge of complete interface and working methodology of modules	
6	Make wheelchair moveable electrically and mechanically	Wheelchair will become movable	40%	BSCSF16E034	Code and covert Arduino in working state	Knowledge about complete functioning hardware (Arduino)	
				BSCSF16E030	Document working of Arduino and motor	Learning about electronics, mechanics and methodology	
				BSCSF16E052	Connectivity of motor with batteries make it workable	Complete Functioning of electronics and mechanics used	
7	Make wheelchair moveable electrically and mechanically	Wheelchair will become movable	45%	BSCSF16E034	Documentation of modules working methodology	Knowledge about electronic and mechanics working and methodology	
				BSCSF16E030	Code to make motor speed controllable	Complete Functioning connection with Microcontroller	
				BSCSF16E052	Embed suitable controller design implementation	Awareness of connection of electronics.	

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8	Control wheelchair movement speed	Speed becomes controllable	50%	BSCSF16E034	Design and arrangement of microcontrollers	Knowledge about microcontrollers	
				BSCSF16E030	Code Microcontroller for controlling interface	Knowledge about microcontrollers concepts and coding functionality	
				BSCSF16E052	Documentation the working of module	Learning about complete working methodology of module	
9	implement **move right** functionality into wheelchair and connect it to smartphone	Wheelchair will able to move in right direction	55%	BSCSF16E034	Design Application connection with wheelchair embedding Bluetooth module	Knowledge of connecting devices through Bluetooth module	
				BSCSF16E030	Documentation of working interface of move right functionality	Knowledge of working of devices through Bluetooth module	
				BSCSF16E052	Coding of Application connection with wheelchair	Complete Functioning Interface connected with Bluetooth	
10	implement **move right** functionality into wheelchair and connect it to smartphone	Wheelchair will able to move in right direction	60%	BSCSF16E034	Designing for connection of smartphone with chair through Bluetooth	Knowledge of connecting devices through Bluetooth module	
				BSCSF16E030	Code to move wheelchair in right direction	Learning of Bluetooth module coding concepts	
				BSCSF16E052	Documentation of functionality and working of module	Knowledge of working of devices through Bluetooth module	
11	implement **move left**	Wheelchair will able to move in left direction	70%	BSCSF16E034	Documentation of Complete Functioning Interface	Knowledge of working of devices through Bluetooth module	

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	functionality into wheelchair and connect it to smartphone			BSCSF16E030	Design Application connection to move toward left with wheelchair embedding Bluetooth module	Knowledge of working of devices through Bluetooth module	
				BSCSF16E052	code for connection of smartphone to move towards left	Knowledge of connecting devices through Bluetooth module in various directions	
12	implement **move forward** functionality into wheelchair and connect it to smartphone	Wheelchair will able to move in **forward** direction	80%	BSCSF16E034	Documentation of working and methodology used	Aware of working devices through Bluetooth module	
				BSCSF16E030	Design interface with upward movement functionality	Learn functioning if module	
				BSCSF16E052	Coding for connecting mobile app interface with forward direction	Knowledge of connecting devices through Bluetooth module	
13	implement **move reverse** functionality into wheelchair and connect it to smartphone	Wheelchair will able to move in **reverse** direction	85%	BSCSF16E034	Coding for connecting mobile app to move chair in reverse direction	learning of implementation of various direction functionality	
				BSCSF16E030	Documentation of working method of module	Knowledge of function and connection of module	
				BSCSF16E052	Designing for connection of smartphone with module in reverse direction	Knowledge of working of module	
14	implement **move reverse** functionality into wheelchair and connect it to smartphone	Wheelchair will able to move in **reverse** direction	90%	BSCSF16E034	Designing for connection of smartphone with module in backward	Knowledge of connecting devices through Bluetooth module	
				BSCSF16E030	Coding for connecting mobile app interface with reverse direction	Complete functioning of module with reverse direction	

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				BSCSF16E052	Documentation of working of module in backward direction	Knowledge of connecting devices through Bluetooth module	
15	Android phase: Back End coding (add movement functionality)	Complete Mobile Application	95%	BSCSF16E034	Java functionality coding Test	Learning java	
				BSCSF16E030	Complete Design Checking	Knowledge about java	
				BSCSF16E052	Documentation of interface with complete working	Knowledge about java Its working and methodology	
16	Android phase: Back End coding (add movement functionality)	Complete Moveable Wheel Chair	100%	BSCSF16E034	Complete Documentation review	Knowledge about complete working	
				BSCSF16E030	Coding of devices checking	Knowledge about complete working	
				BSCSF16E052	Coding and Designing of smartphone app check	Knowledge about complete working	

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