LIST OF FIGURES

Figure No.	Title	Page No.
Fig 3.1	Functional Block Diagram	9
Fig 3.2	Arduino IDE	12
Fig 3.3	Tinkercad	13
Fig 3.4	Xampp	14
Fig 3.5	Visual Studio Code	15
Fig 3.6	MIT App Inventor	16
Fig 4.1	Basic Block Diagram	21
Fig 4.2	Arduino UNO Microcontroller	24
Fig 4.3	Servo Motor	25
Fig 4.4	Ultrasonic Sensor	26
Fig 4.5	RFID Module	27
Fig 4.6	ESP8266 Wi-Fi Module	28
Fig 4.7	LCD Display	29
Fig 4.8	GSM Module	30
Fig 4.9	Power Supply Module	31
Fig 4.10	Circuit diagram of implemented system	32
Fig 4.11	Check-in process	33
Fig 4.12	Check-out process	34

Fig 4.13	Programming Flowchart	35
Fig 5.1	Availability of slots using multiple sensors	37
Fig 5.2	UI design of app	38
Fig 5.3	Database php file	39
Fig 5.4	Index php file	39
Fig 5.5	XAMPP control panel	40
Fig 5.6	Webserver files viewed in the localhost	41
Fig 5.7	Front-end design using MIT App Inventor	42
Fig 5.8	Defining event handlers	43
Fig 5.9	User interface of the app	43
Fig 5.10	Slot availability displayed on the app	44
Fig 5.11	Interfacing of Ultrasonic sensor	44
Fig 5.12	Interfacing of LCD Screen	46
Fig 5.13	Interfacing of LCD with Ultrasonic sensor	46
Fig 5.14	Interfacing of LCD with multiple sensors	47
Fig 5.15	Displaying slot status of multiple sensors	47
Fig 5.16	User authentication using RFID	48
Fig 5.17	Result displayed on serial monitor	49
Fig 5.18	Interfacing Servo motor	49

Fig 5.19	Interfacing Servo motor with RFID	50
Fig 5.20	Interfacing Wi-Fi Module	50
Fig 5.21	Interfacing GSM Module	51
Fig 5.22	Text message send to the mobile	51
Fig 5.23	Interfacing GSM Module with RFID	52
Fig 5.24	Text message after user authentication	52
Fig 5.25	Interfacing of LCD, servo motor, GSM module	
	and RFID with multiple sensors	53
Fig 5.26	Integrating whole components on a foam board	54
Fig 5.27	Demonstration of the implemented system	55
Fig 5.28	SMS to user's and owner's mobile	55
Fig 5.29	App view	56