

Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	05 November 2022
Team ID	PNT2022TMID54463
Project Name	Project - Industry-specific intelligent fire management system
Maximum Marks	4 Marks

Technical Architecture:

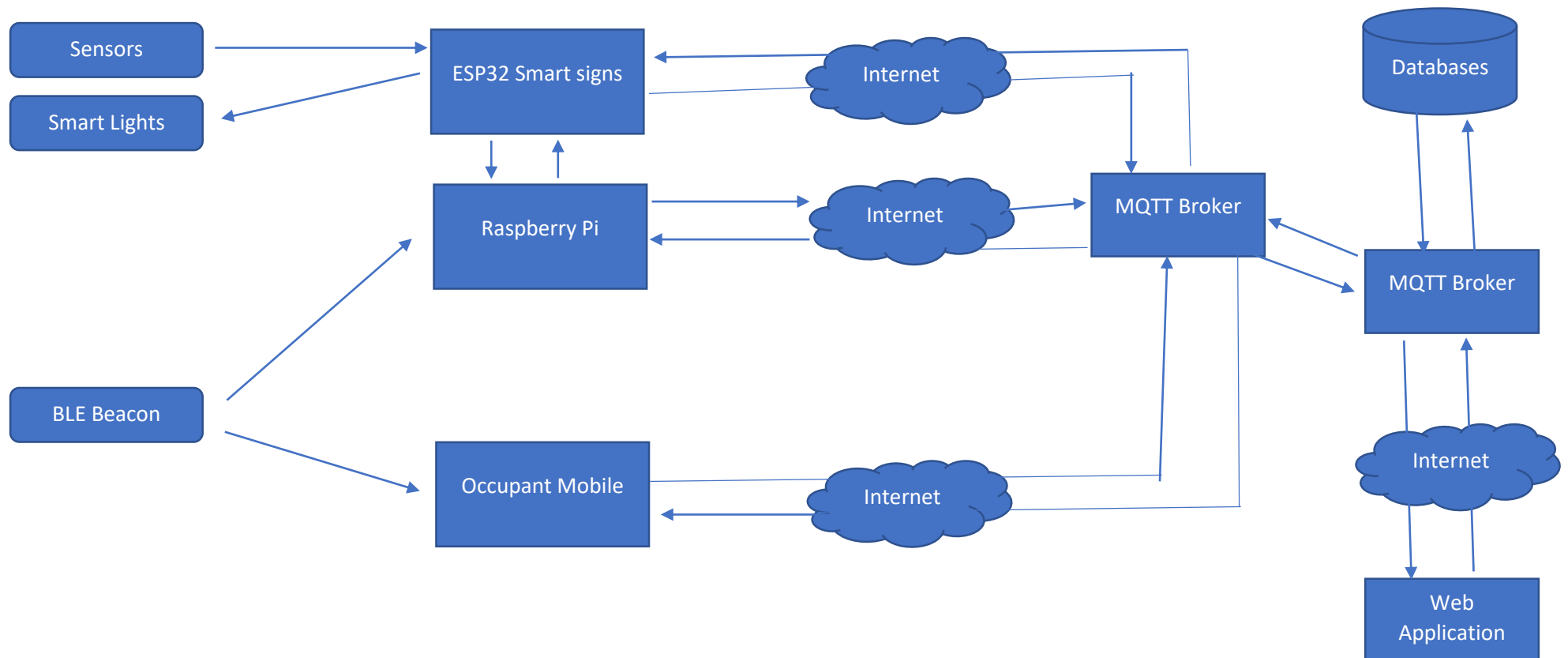


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	Received data from sensors	The data collected from the sensor units placed in the building	ESP32 Wi-Fi module
2.	Web Interface	The collected data were displayed visually	HTML, CSS, JavaScript
3.	Database	Datatype	MYSQL
4.	Cloud Database	Database service on cloud	IBM Cloud
5.	Data Storage	File storage requirements	IBM Block Storage

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Temperature monitoring	The temperature inside the region of operation is monitored continuously.	Temperature Sensor
2.	Smoke detection	The presence of smoke is monitored	Smoke sensor
3.	Scalable Architecture	Using the smart light control panel	Smart Light Control panel
4.	Availability	All the data in the system are transferred through internet and is stored in a databases, and the info is accessible for all the involved parties	MQTT messaging protocol is used.