

## Ideation Phase

### Literature Survey

Date	27 October 2022
Team ID	PNT2022TMID08255
Project Name	Signs with Smart Connectivity for Better Road Safety

#### Literature survey for the project:

S.No	Year of Publication	Name of Authors	Title	Technology /Tools	Advantages/ Disadvantages
1	2016	Pravin A. Dhulekar, Niharika Prajapati, Tejal A. Tribhuvan	Smart Multilingual Sign Boards	<ul style="list-style-type: none"> <li>Street Sign boards</li> <li>Character Extraction</li> <li>Symbol Matching</li> </ul>	<p><b>Advantage:</b> This System will helpful to all visually impaired persons who travels.</p> <p><b>Disadvantage:</b> This system helps the persons in the road but it doesn't provide any safety measures</p>
2	2016	Aniket Rishikesh Vikash Satyam	GSM based Smart home and digital notice board	<ul style="list-style-type: none"> <li>GSM technology for communication</li> </ul>	<p><b>Advantage:</b> It is inexpensive, quick, reliable and secured for any organization that requires to circulate notices regularly</p> <p><b>Disadvantage:</b> The status of the appliances is not known and there is no security for the messages that are being transmitted.</p>

3	2017	Dhara G.Rangani Nikunj V. Tahilramani	A Smart Notice Board System Using IOT Technology	<ul style="list-style-type: none"> <li>• Microcontroller ATMEGA 328 programmed in C language</li> </ul>	<p><b>Advantage:</b> In this system, the user sends the information or data from remote areas.</p> <p><b>Disadvantage:</b> The GSM modem is a wireless modem, which cant work without wireless network.</p>
4	2018	Mrudhula Maghade Robin raju Praful Mishra	Smart Board	<ul style="list-style-type: none"> <li>• Arduino</li> <li>• Wifi</li> </ul>	<p><b>Advantage:</b> Smart Board can be display data to the digital LED Screen.</p> <p><b>Disadvantage:</b> Smart Board is and Android application program that allow android device to communicate reliably using Wi-Fi network.</p>
5	2022	Eric M.Masatu , Ramadhani Sinde, Anael Sam	Development and testing of road signs alert system using a smart mobile phone.	<ul style="list-style-type: none"> <li>• GPS</li> <li>• WLAN</li> <li>• RFID</li> </ul>	<p><b>Advantage:</b> This study developed a smart mobile-based application that uses in-built sensors to alert drivers with voice and image notifications.</p> <p><b>Disadvantage:</b> This system was found to consume more power due to frequent GPS access, which has a negative impact on smartphone batteries.</p>

