ProjectDesignPhase-Il

SolutionRequirements(Functional&Non-functional)

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| Date | 3 OCTOBER 2022 |
| Team ID | PNT2022TMlD49188 |
| ProjectName | Project-SignswithSmartConnectivityforBetterRoadSafety |
| MaximumMarks | 4 Marks |

# FunctionalRequirements:

Followingarethefunctionalrequirementsoftheproposedsolution.

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| FR  No. | Functional Requirement(Epic) | SubRequirement(Story/Sub-Task) |
| FR-I | UserVisibility | SignBoardsshouldbemadeofbrightcolouredLEDscapableofattractingdriver'sattentionNottoo  distractingto cause accidents |
| FR-2 | UserUnderstanding | Shoulddisplayinformationthroughmeanslike  images/illustrationswithtextsothattheusercanunderstandthesignscorrectly |
| FR-3 | UserConvenience | Display should be big enough to display all the signscorrectlysothat itisvisibleeven to faraway drivers |

# Non-functionalRequirements:

Followingarethe non-functional requirementsoftheproposed solution.

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| FR  No. | Non-FunctionalRequirement | Description |
| NFR-I | Usability | Shouldbeabletodynamicallyupdatewithrespecttotime. |
| NFR-2 | Security | Shouldbesecureenoughthatonlytheintendedmessages aredisplayed inthedisplay. |
| NFR-3 | Reliability | Shouldconveythetraffic informationcorrectly. |
| NFR-4 | Performance | Displayshouldupdatedynamicallywhenevertheweatherortrafficvaluesareupdated |
| NFR-5 | Availability | Shouldbeonservice24/7 |
| NFR-6 | Scalability | Should be modular and hence able to scale onservershorizontally. |