# Project Design Phase-I
# Solution Architecture

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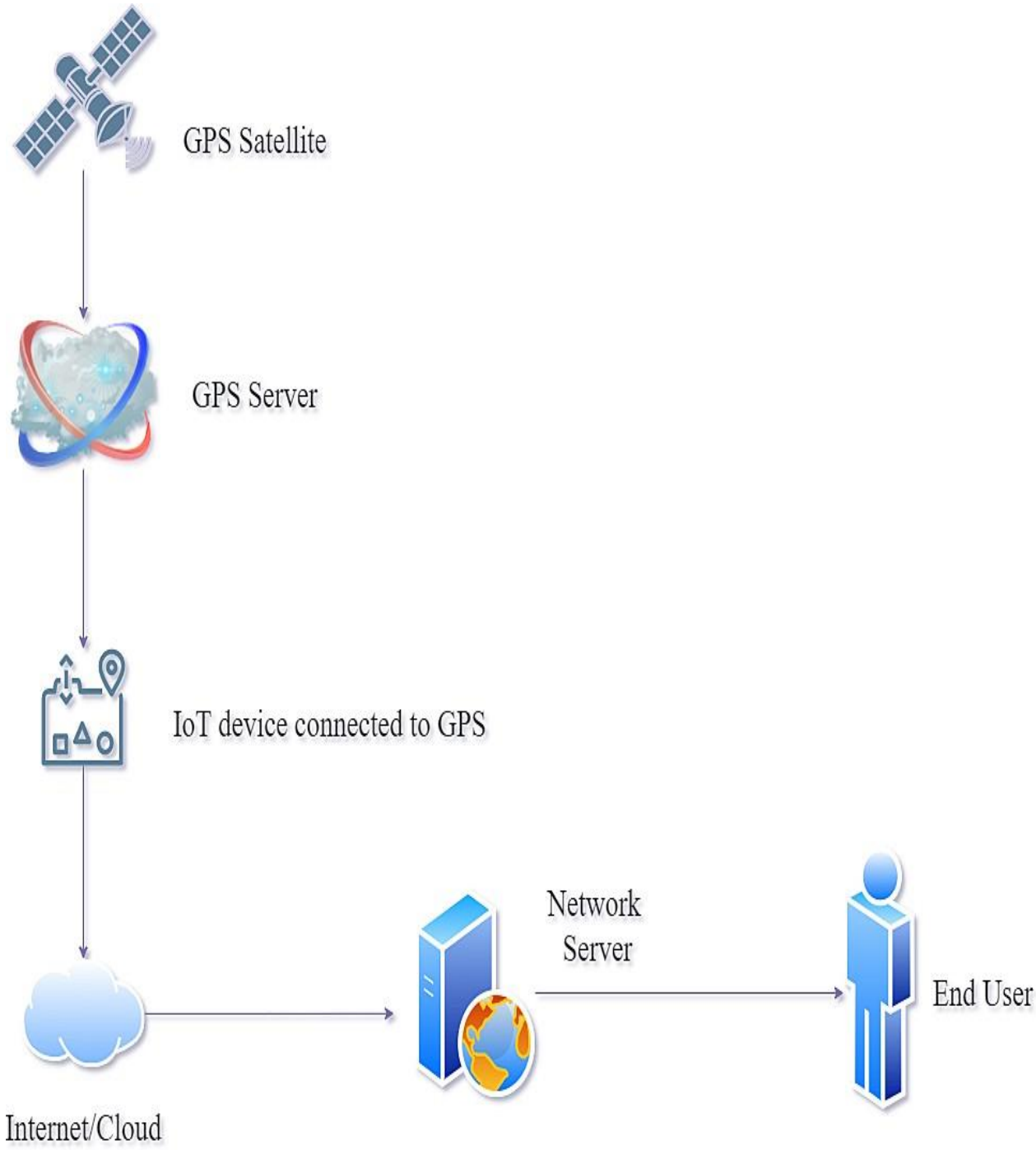
| **Date** | 7 October 2022 |
| **Team ID** | PNT2022TMID30696 |
| **Project Tittle** | Project - IOT Based Safety Gadget for Child Safety Monitoring and Notification |
| **Maximum Marks** | 4 Marks |

## Solution Architecture:

- Using the Minimum Viable Architecture model can ultimately result in a highly polished end product as it relies on testing assumptions with small experiments and guiding development using the findings of said experiments.
- Providing a flexible framework that can help achieve target business objectives, MVA responds to evolving customer requirements and technologies and can go a long way in promoting agility.
- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behavior, and other aspects of thesoftware to project stakeholders.
- Define features, development phases, and solution requirements and its Provide specifications according to which the solution is defined, managed,and delivered.

**Diagram:** c


GPS Satellite
GPS Server
IoT device connected to GPS
Network
Server
End User
Internet/Cloud

- The safety of a child at a large public event is a major concern for event organizers and parents. We address this important concern and proposes an architecture model of the IOT-enable smart child safety tracking digital system.
- This IOT-enabled digital system architecture integrates the Cloud, Mobile and GPS technology to precisely locate the geographical location of a child on an event map.
- The proposed architecture model describes the people, information, process, and technology architecture elements, and their relationships for the complex IOT-enable smart child safety tracking digital system.

## FEATURES:

Development of a safety gadget for children to ensure their protection without direct monitoring of their parents. The various features involve:

- GPS
- Geo fence
- Notify alert signal

## SOLUTION:

Track current location of the child using GPS and continuous monitoring of the same is done. When the gadget detects the activity to be outside the given geo fence (as mentioned by the parent or guardian), alert messages or notifications are sent to the registered device, appropriately. Additional features such as recording of messages could be done if any kind of danger is sensed.

## Outline Architecture: