Digital Traffic Boards

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Introduction

- The system is a mobile application connected to a Cloud backend.
- The system provides the user with comprehensive location based data for his every travel needs.
- The main scope is to create an alternative for conventional traffic sign boards and eventually to replace them.

Motivation

- Many people fail to notice the sign boards, like a speed limit board. So the person may over-speed and meet with an accident.
- The purpose of the conventional traffic boards is to simply indicate the speed-limit of a particular area, but this can be implemented better with a mobile application

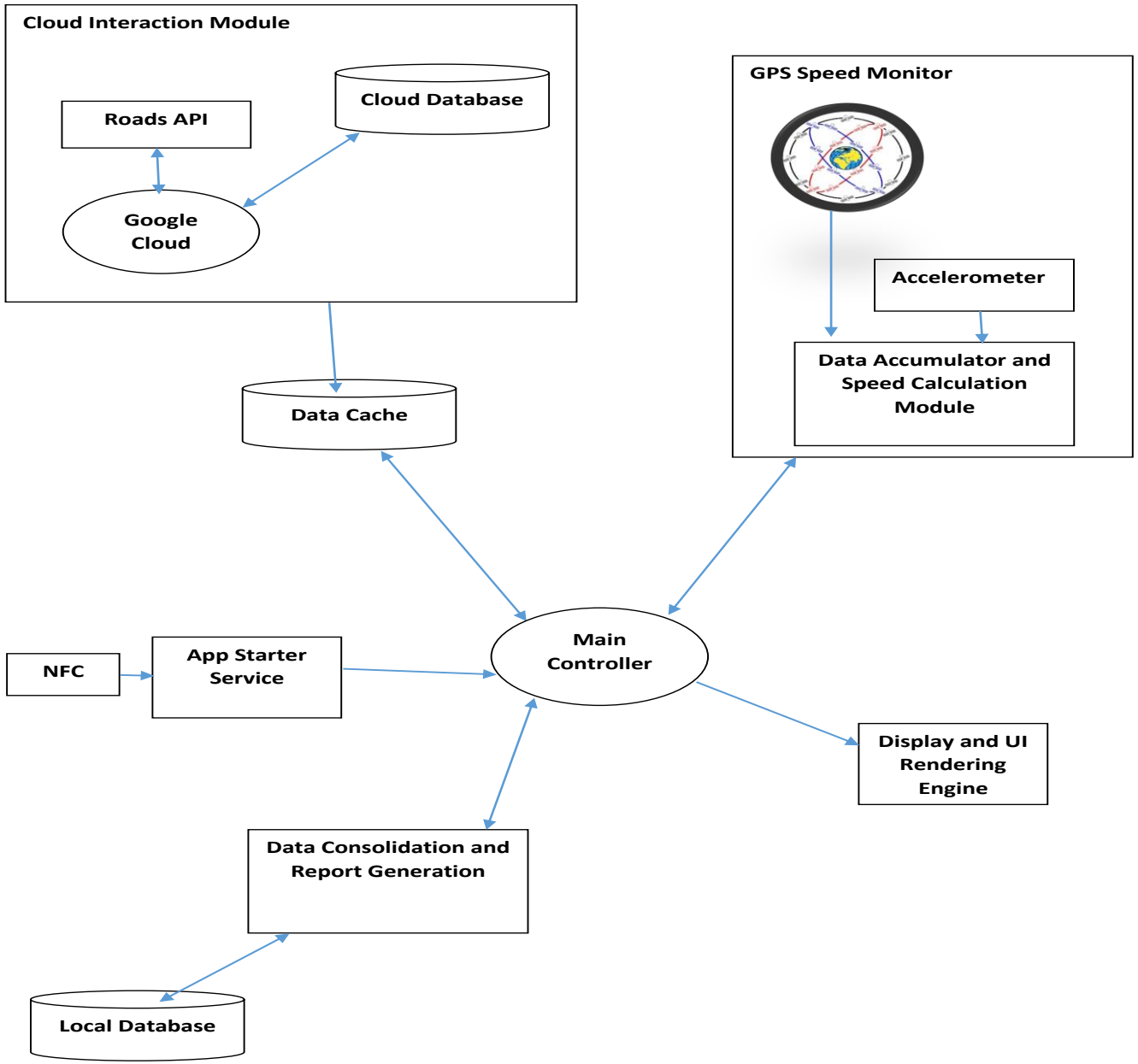
Requirements

- GPS and Internet Enabled Android Device
- Cloud Services
- NFC as an added feature in available devices

Specifics of the project

- A complete digital traffic data, which we call the **OneBoard** is downloaded from our cloud services. This will contain all the information that the system needs to know about that particular area.
- This information is in-turn used to give alerts to the commuters
- All this using the enormous power of cloud technology

MODULE DIAGRAM



Preliminary Work

- We have created a basic implementation which will alert us when we go over a static speed limit say 50km/hr

BUDGET

- The Prices given here are the upper limits of all the components mentioned.
- The services required are pay as you use kind of services

Item	Cost
Google Roads API	INR 3000
Cloud Services	INR 5000
NFC Tags(500 *2)	INR 1000
TOTAL	INR 9000

TIMEFRAME

Month	Work
1-2	Setting up the environment
3-6	Building the Backend and populating the database
7-9	Building the client application and the front end
10-12	Final integration of the modules Testing and debugging Launching the app in the android market

Scope for future work

- We plan to extend our services to all the mobile platforms.
- We plan to create electronic sign boards that will eliminate the requirement of internet connectivity
- Use the data gathered to identify potential danger zones.

THANK YOU