

INTRODUCTION

- Time is Money
- Unpredictable traffic conditions.
- Time is wasted waiting for buses.
- Need for an early warning system for the approaching transportation vehicle.

Approach

Automatic alerts to passenger when vehicle is approaching towards the desired location.

So the passengers can reach their stop just in time and board the bus without any waiting.



Features

- Fully Automatic
- User Friendly
- No interaction with the Driver.
- Easy update of Routes and Stops.
- Handle multiple buses at same time.

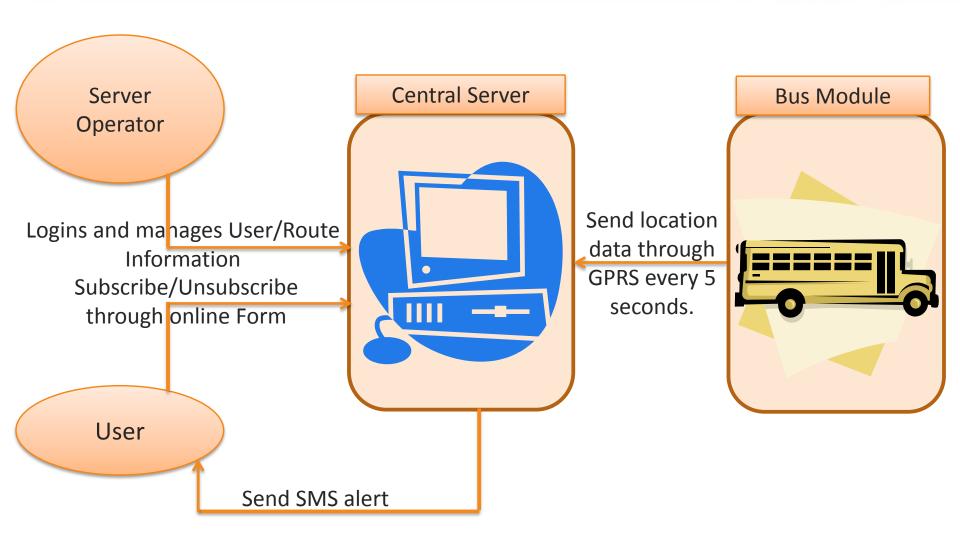
It's about Automation, Integration and Simplification

IMPLEMENTATION

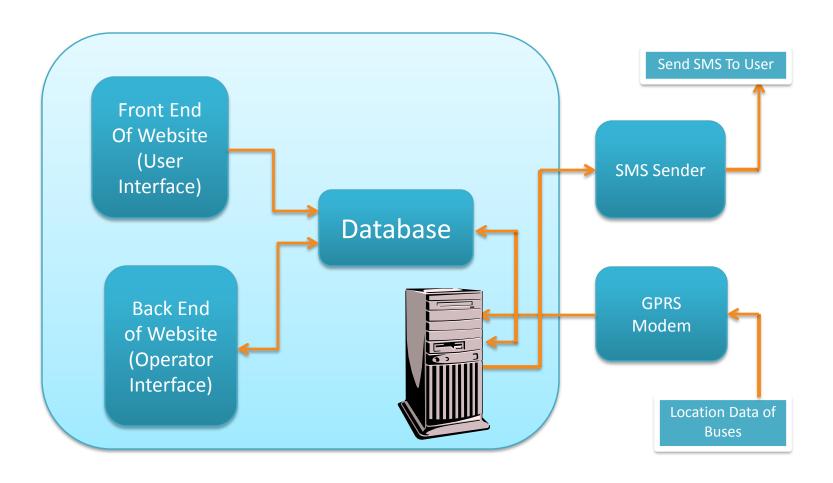
Process

- User subscribes on website.
- GPS System on every Bus to detect Bus Location.
- GPRS System on Bus sends Location Data to server.
- Server sends SMS Alert to corresponding Users.

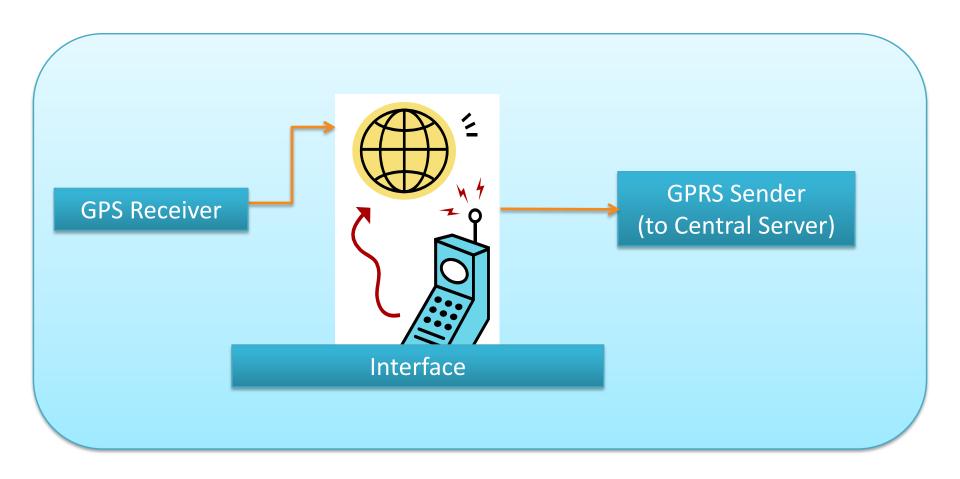
BLOCK DIAGRAM



Central Server



Bus Module



Major Tasks

- Designing website for user registration.
- Integrating GPS and GPRS in the bus module.
- Storing and managing user database.
- Integrating SMS Sender on central server.

Project Timeline

ID	Task Name	Duration	Aug 2010					Sep 2010				Oct 2010				Nov 20	10	
			8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3	10/10	10/17	10/24	10/31		
1	Designing Website For User Registration	4w																
2	Interfacing GPRS And GPS	6w																
3	Understanding How GPS/GPRS Works	2w																
4	Decoding The GPS Output	2w																
5	Designing a Mobile App To Use GPRS To Notify The Server Every 5 Sec.	4w																
6	Setting Up The Server	9w																
7	Integrating GPRS Modem To Receive GPS Data	4w																
8	Integrating SMS Sender	4w																
9	Storing And Managing Database of Users/ Buses/Routes	3w																
10	Implementing Operator Interface For adding/deleting/modifying Routes/Buses.	3w																
11	Testing The Device	2w																



But wait...

There's More!

Possible Extensions

Possible Extensions

- Security / Vehicle tracking.
- 'Where is my bus?' SMS enquiry.
- Extendable to any vehicle.
- Driver Attendant monitoring.

Dare to Dream

Thank You

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For More Information visit: www.cse.iitd.ac.in/~cs5080211/pas