

CSP315 Project 



Smart Passenger Alert System

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.



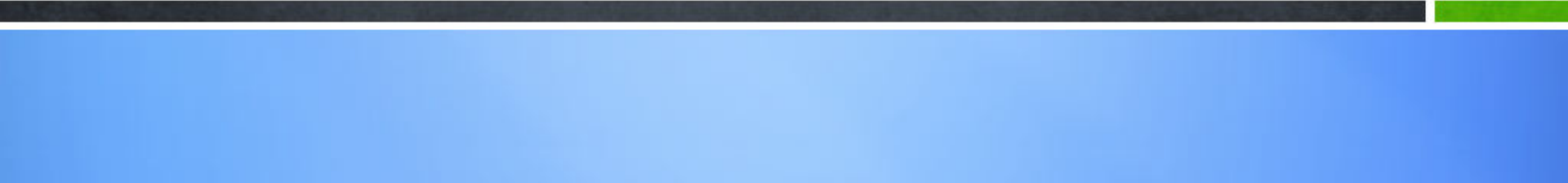
Features

- 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

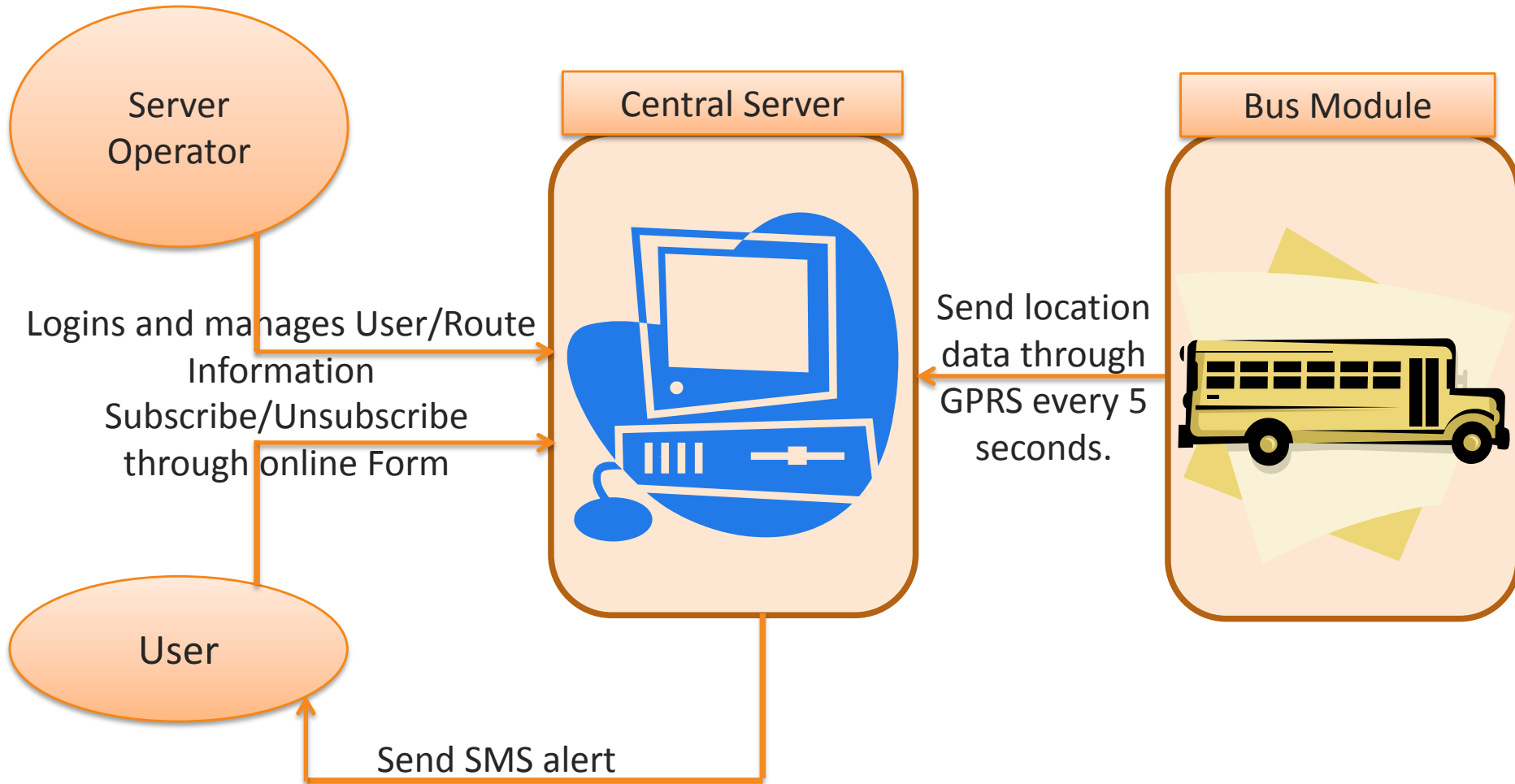
IMPLEMENTATION



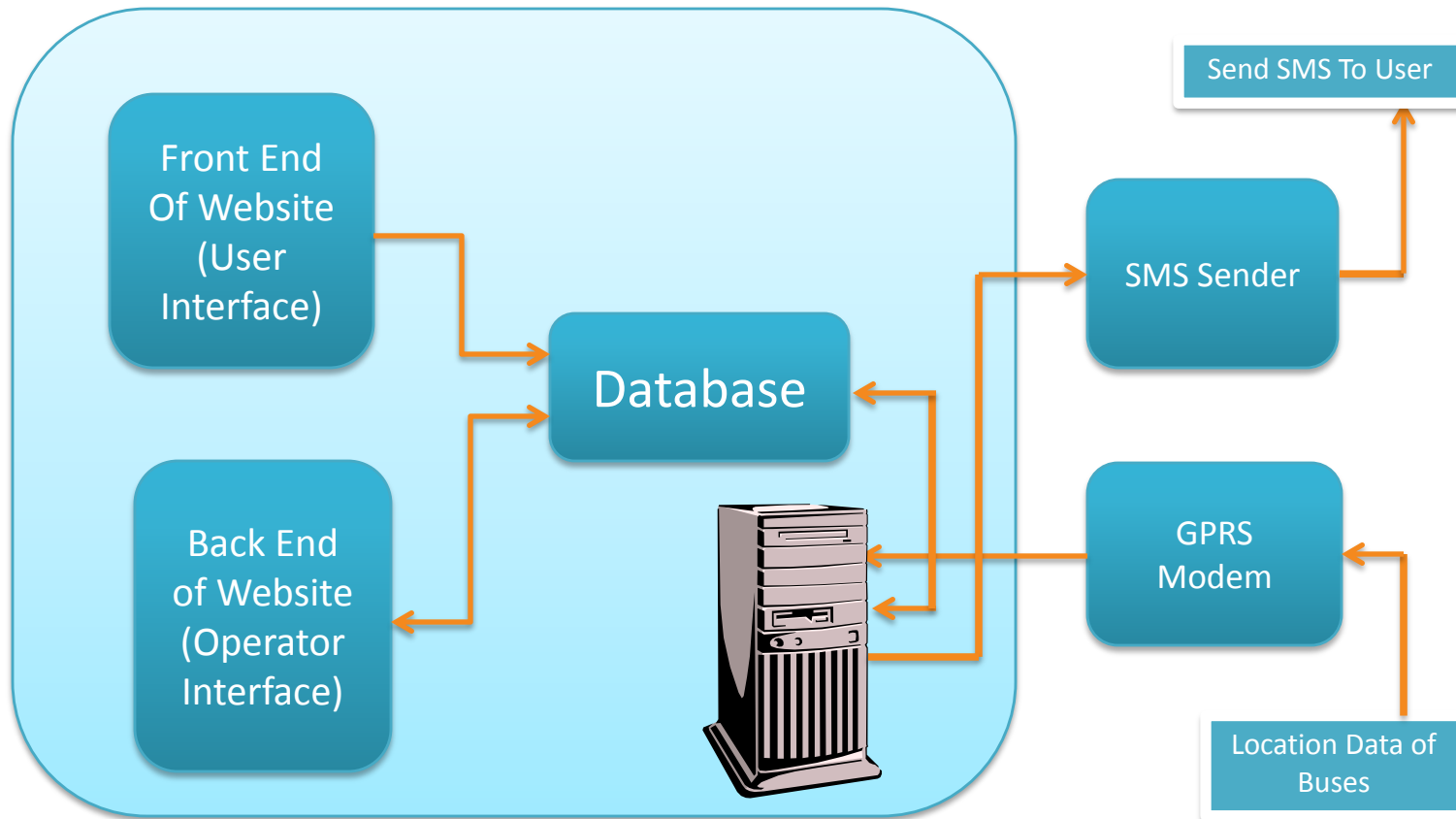
Process

- **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.

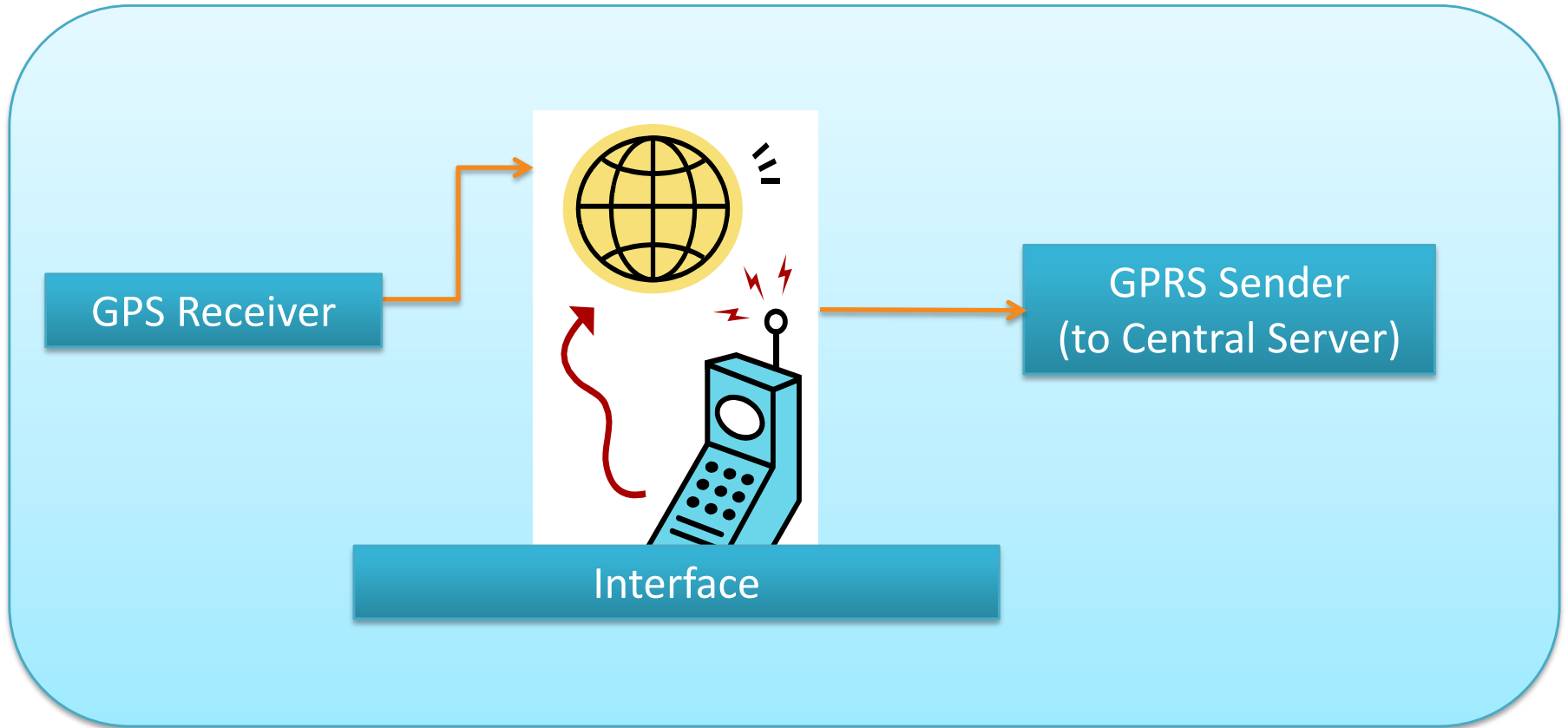
BLOCK DIAGRAM



8 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.



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