Construction of Intelligent mobile phone with GPS enabled features

Construction of Intelligent mobile phone with GPS enabled features aimed at constructing a mobile with advanced features like tracking, remote SIM address book accessing, speed detecting. In the modern days human beings life style is fully occupied with the terms like technology and innovation. We all know the revolutions the mobile technology has brought into our life. In an average every 8 out of 10 are carrying a mobile phone and even the illiterate persons have greater awareness on the operation of this mobile phones. So instead of making these mobile phones for calling and smsing purpose we can add few features like enabling the GPS and providing the facility for tracking, accessing the SIM phone book remotely from some other location etc.

The internal architecture of this mobile phone consists of a GSM modem, which is capable of carrying a SIM card, Global Positioning System, Programmable on board computer. The on board computer is what we call as a microcontroller is embedded with an assembly language called hex file which consists of a sequence of set of instructions to control different other modules in the project.

GPS is the acronym for global positioning system which receives the information from the satellites and provides the same to the controller. The GPS provides us the data like location, time, and speed. The controller accepts these data in a sequence of steps as per the instruction set which we provide to the controller.

The mobile we are designing provides us with the following features:

➢ Remote SIM address book accessing.

➢ GPS enabled tracking.

➢ Automatic speed alert.

➢ Automatic calls disconnect and busy message generation (can be enabled while driving).

The major building blocks of this project are:

1. Regulated power supply with voltage regulator.
2. Global positioning system.
3. RS232 based interfacing.
4. GSM modem.
5. Microcontroller.
6. LED indicators.
7. Control Buttons.

BLOCK DIAGRAM

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