**Name of project: Car Crash Detection and Prevention**

**Problem Statement:**

In today’s busy industrial world, people are more prone to accidents on highways due to heavy traffic, rash driving, unsatisfactory maintenance of roads, environmental factors, and other such reasons. Accident victims might not be able to contact their relatives of emergency services due to unconscious state and this can result in loss of their lives.

**Approach**

This project aims at helping people who have met with accidents and are unable to reach any emergency services on time. “Save Lives” is an enterprise that helps these people by tracking such situations with Sensor Systems and contact emergency services on their behalf.

Implemented an ecosystem model that assists people following car accidents to rapidly connect them with emergency services.

Implemented an algorithm based on the location of the accident, that alerts nearby hospitals and police organizations.

Prepared analysis reports using jGraph to prevent further accidents.

**Motivation for the project**

The idea behind this project was to develop an ecosystem object model consisting of several enterprises and organizations, coming up with the project topic from the Internet Of Things (IoT) and making the use of all the java functionalities.

**Technologies used**

Java, Java Swing, DB40util.

**Software’s required**: NetBeans

Include the following jar files in the libraries:

jcommon-1.0.23.jar

jfreechart-1.0.19.jar

db4o-8.0.184.15484-all-java5.jar

AbsoluteLayout.jar

**Getting Started**

DB40util is used for the project as an object-oriented database.

DB4O file is included in the class DB4OUtil.java which is a Singleton class under the package

Business. DB4OUtil.

The file is attached: SMADataBank.db44seo

**Description in detail**

For Object Model, refer the document Data Flow.pdf

For Architecture flow, refer the document Architecture Diagram.pdf

UML Diagram: UML Object Model Diagram.pdf

For Use Cases, refer aed\_presentation.pptx