Technical Specification / Schedule
Safety NET

Team 2: Ford
CSE 498, Collaborative Design

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Project Overview

• Current/Past Automotive Safety Systems
• Statement of Problem
  – Partial Integration
  – Restricted Focus
• Proposed Solution
  – Project Assumptions / Scope
  – System Overview
Architecture Illustrated

Primary Actors

- Vehicle (Safety Systems/Sensors)
- Central Safety Server

Safety System(s) Report Several Events

Central Safety Client Determines an Alert

Response Determined

Driver/Occupants

Server Examines Data in Car Region

GUI Alerts Driver

Data

Returns/Stores Patterns

Identifies a Pattern

GUI Queries Server for Alerts/Patterns (Via Internet)

Alert Transmitted To Server (Via Internet)
Functional Specifications

• Central Safety Client
  – Test Harness
  – Generate Alerts

• Central Safety Server
  – Receive Alerts
  – Store Alerts
  – Disseminate Alerts

• GUI
  – Map Display
  – User Preferences
System Components

Software Platforms / Technologies

– Visual C++
  • MFC
– Server Side Scripting
  • PHP
– Database
  • MySql
– XHTML / CSS
– Google Maps / Javascript
Risks

- Defining what constitutes specific alerts
- XML-RPC
- Scalability
- Learning Google Maps API and Javascript
- Communication between the client, server, and GUI
Project Schedule

1. Begin Prototyping
   a) Goal: Start coding each component
   b) Date: 9/17

2. Research Completion
   a) Goal: finish research in risk areas
   b) Date: 9/24

3. Prototype Completion
   a) Goal: Provide initial prototype
   b) Date: 10/8

4. Beta Version Completion
   a) Goal: Provide Beta Version
   b) Date: 10/29
Project Schedule

5. Final Version Completion
   a) Goal: Provide finished project
   b) Date: 11/16

6. Project Video Completion
   a) Goal: Finish project video presentation
   b) Date: 12/3

7. Documentation Completion
   a) Goal: Supply final documentation
   b) Date: 12/7