FACTS

Car crashes are the number one cause of death among teenagers, and one in every three are alcohol-related

Nearly 30% of High School Teens have engaged in binge drinking

About 43% of High School Seniors have drank alcohol in the last 30 days

60% of Juniors and Seniors in High School admit to riding with an impaired teen driver

IPRO Information

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IPRO It takes a team!
INTERPROFESSIONAL PROJECTS PROGRAM
AT ILLINOIS INSTITUTE OF TECHNOLOGY

IIT IPRO 351

Combating Underage Drinking & Driving

Project Background

The IPRO program joins students from various academic disciplines to work as a team to formulate innovative technologies and solutions for current issues in society. Such experiential learning reinforces traditional education methods by providing students a richer academic experience.

IPRO 351 is a student-designed IPRO currently in its fourth semester of existence. The main goal of the project is to combat underage drinking and driving.

Our team focus is to design, create, and develop an iPhone application geared towards connecting parents and teen drivers by providing a means of detecting cognitive impairments caused by alcohol, sleep deprivation, drug use, etc, that would influence a teen driver's decision to drive under the influence.

HANDING YOUR TEEN THE CAR KEYS— ARE YOU CONFIDENT OR CONCERNED?

Clue-Me-In:

A parental and child interface system in which the parent's phone application and interface are in sync with the child's phone application and interface. This application has two distinct internal applications. The parental informant application allows parents to get the basic information about where the child will be, for how long, and how the child can be contacted. The game applications measures impairments in cognitive functions that can be caused by alcohol consumption, sleep deprivation, and/or drugs use through specially-designed applications that record reaction time and accuracy.
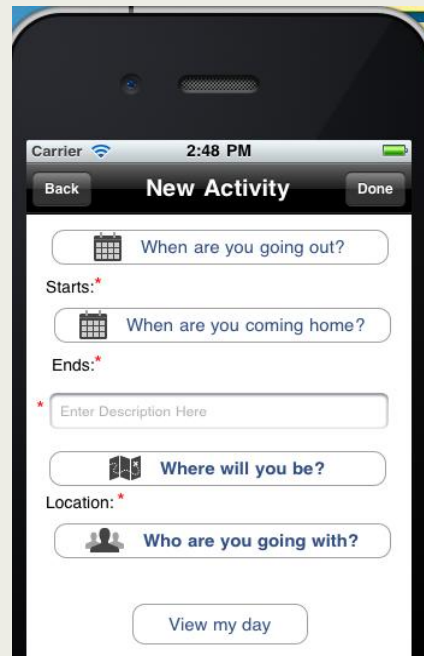
Stop-Light Game:
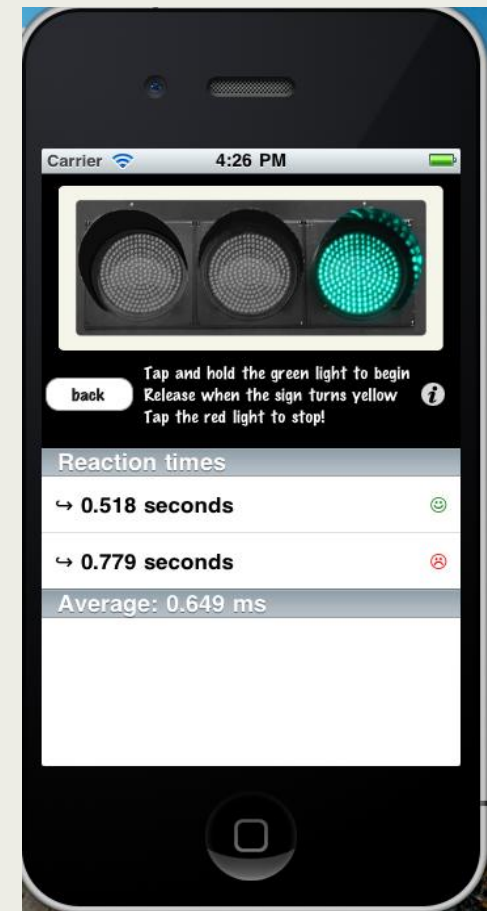
A green light will appear on the right-hand of the horizontal stoplight. Participants will tap and hold the green light. Once the middle light turns yellow, participant must remove his/her finger from the screen. As soon as the stoplight turns red, the participant must quickly tap the red light on the left-hand of the stoplight with his/her finger. Reaction time will be recorded. Detects: Vision and reaction time