



CIS Course Project Presentations

Part 1: CIS 4339 – Project in Computer Science

Developing a Website as a Teaching Aid for Computer Science Classes

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Abstract: The purpose of this project is to develop a website which will primarily be used as a teaching aid for computer science teachers/professors teaching the C language. The secondary objective of this website is to allow students, or any other individual, to freely practice modern coding techniques. Professors will be allowed to assign pre-defined problems which will be listed categorically based on level of difficulty. Completed code will be submitted by the student where the server will save, compile, run, and check the method. Pre-defined test cases will determine the validity of the student's code. User logins will allow the professor to check each student's individual progress, which is updated after each properly completed problem.

Part 2: CIS 3374 – Quality Assurance and Testing

Testing the e-Cruise Control Application

Abstract: The e-Cruise Control application is designed to facilitate testing real-time and embedded systems. The application consists of two primary components: the Master Control Console (MCC) and the Driver Console (DC). The MCC incorporates a series of slide bars and controls to enable various settings to be broadcast to the DCs. The application is used in a testing environment as a vehicle to demonstrate various techniques for testing and identifying testable conditions.

The Master Control Console simulates changing highway driving conditions and broadcasts these changes to the Driver Consoles. They in turn must react properly to record the changed conditions and take appropriate action. For example, if it gets dark, the headlights must go on.

A regression testing suite is utilized to calibrate the system and to facilitate its development.

Location: 4th Floor Conference Room (Wachman 447)

Time: 3-4pm, Wednesday, September 10, 2008

Refreshments will be served!