TEAMS

Student emails and links to team web pages
http://www.cs.utah.edu/classes/cs4500

All Your Base: ProjectTracker
Greg Nelson, James Jensen, Jon Richardson, Peter Kingston
The ProjectTracker improves visibility of any kind of project, large or small, by allowing people to create tasks, subprojects, and other information related to the project, and to assign portions of projects to other people. They can then easily monitor the progress of the portions they’ve assigned out, as well as update the progress of their own projects.

Boomerang Marketing: Project Ricochet
Chris Mayfield (UofU), Michael Ferguson (WSU), Russell Dixon (USU)
Boomerang Marketing Inc is a full-service customer retention marketing firm based in Logan, Utah. Their main product, Ricochet, is an online customer database system that businesses use to send follow-up letters and surveys to their customers. Each letter is hand-addressed and includes a coupon for a free item from one of Boomerang’s partners, such as Einstein Bros Bagels, Jamba Juice, and many others. Because what goes around comes around (i.e. like a boomerang), Ricochet provides both small and large businesses valuable resources for retaining their customers.

Cool Team Name: WalkEd
Edward Pultar, Scott Brown, Stuart Wilde
WalkEd is a multi-agent pedestrian modeling system for simulating urban environments.

CS 4500 Course Web Page
www.cs.utah.edu/classes/cs4500
Cyber Ninjas: Wireless Environment Monitoring System  
**Daniel Daines, Mark Pearson, Matt Stacey**  
The Wireless Environment Monitoring System takes climate control to a new level. Our integrated hardware/software solution provides real-time visualization of environmental conditions, such as humidity and temperature, and can be configured to send alerts to remote devices when extreme conditions are detected. With sensors placed strategically throughout a building, current conditions in any location can be easily ascertained by the user.

Design Bug LLC: When Animals Attack  
**Kip Armstrong, Brian Bradford, Casey Garner, Jacob Lords**  
A turn-based strategy game where armies of animals are created to take over the world. Heavy emphasis is placed on the Artificial Intelligence of the computer players, to create a challenging and enjoyable experience. Several techniques are used including decision trees, minimax search, and pattern recognition.

DocSoft: Doctor’s Office Management System  
**James Freeman, Kris Pearson, Mark Schoenwald, Zack Jenkins, Polina Milyavskaya**  
Nobody enjoys going to the doctor’s office. The last thing a patient wants to do is spend time waiting for a doctor that is backed up with patients. DocSoft allows a patient to request an appointment online and fill out their health history before they even come to the office. DocSoft allows the Doctor to make use of the dynamic patient queue to keep track of all their patients. The DocSoft GUI makes use of C# Forms and information is maintained with MySQL.

Triple W: Mobile Home Controller  
**Chunkai Wang, Lifang Wan, Wen Wang**  
Mobile Home Controller is a user interface program that allows users to control the state of home devices remotely through Cell Phone or PDA.

While True Fork: Line Buster  
**Matthew Edgren, Gregory Mayberry, Cameron Meyer, Kolton Andrus, Travis Longoria**  
The LineBuster application extends an existing POS architecture to provide an alternate and expedited method of check out for a customer. This is accomplished by allowing networked mobile devices to scan and record orders before the customer reaches the check out counter to pay, thereby improving the customer’s store experience and ideally reducing the wait time in line.

Whinot: NewsMail  
**Scott Wightman, Amy Peterson, Shiwei Lai, and David Bradford**  
NewsMail is a web-based program that allows users to view and search news articles that are posted on the internet. Articles that the user has searched for and is interested in are displayed to the user in a list like an email client. What sets NewsMail apart from other article sources on the internet is its ability to remember what the user has searched for to recommend articles that the user may enjoy.
Su-nami: EZTain
Qing Zhang, Chun-yue Tan, Ben Newbold
Ever forget which CDs, DVDs, videos, or books you own? EZTain makes it easy to categorize and browse a personal database of media items using a simple web interface. Create customized web pages and let others view your collection from anywhere there is an Internet connection. Perfect for personal or small business use.

T.D.O. Design: F.P.S.U Campus Warfare
Nick Attebury, Justin Mattle, Rob Memmott, Andy Peterson, Clayton Platt, LeGrand Woolley
Experience the University of Utah like never before.F.P.S.U. is a high energy, heart pounding, thrill ride through the familiar grounds of the University of Utah. Play with your fellow classmates on a LAN game or on the other side of the country. With state of the art graphics and networking, F.P.S.U. is the ultimate experience.

3D’s: Media Server
Andrew Richardson, Wayne Barney, Dave Durrant, Steve Harwood
If you are a movie buff that has DVD’s laying all over your house then the Media Server is for you. Reduce the clutter by uploading your DVD collection into the media server and then storing the DVDs in the attic. When you want to watch a movie you can pick from the library, or have the application recommend a few. It takes input from the user such as preferred genre, rating, and other criteria and uses past viewing history of the user to create a recommended list of movies. The media server is used on a home network that allows multiple users to watch the same or different movies at the same time.

HTMB: Field of View Coordinate Correction
Hyoungsuk Kong, Taeho Kim, Mina Jeong, Bo Jin
This project is sponsored by DesignJug in Salt Lake City. The project is named “field of view coordinate correction.” It involves reading live GPS, compass and inclination signals and then laying a coordinate system over a live video image. The live image is looking in the same direction as the compass heading and the GPS coordinate is the location of the camera. Magnetic declination must be taken into account. A flat plane in the field of view is assumed. The program takes 2D line in the live image, and computes the 2D line to 3D line. The output of the program is GPS coordinate lists. The vehicle follows GPS coordinate lists.

Inculpable, Inc.: ReComposer
Mayank Maheshwary, Sean Peckham, David Reed, Clint Stephens
ReComposer is a program we have created to coincide with Control4’s Composer software. It allows access to Control4’s Media Controller Home Automation System via a web browser, and offers users the ability to view/change the state and properties of devices in their home remotely.

KES: TVX–TIVO System
Cameron Shellum, Cameron Goodwin, Bryce Cottam
By synthesizing your home entertainment system and your personal computer, TXV allows you to time-shift live TV. TXV, like TIVO, gives customers the ability to pause, rewind and fast-forward live television but without the monthly fees. TXV can be accessed locally or remotely via HTTP. This system can also manage music playlists, making it the perfect upgrade for your TV and sound system.
Fish Wars is a multi-player 3D game based on Capture the Flag. The game will be set in an underwater environment using fish and other underwater creatures as our in-game characters.

Silent Mission: Project eWallet
Brittney Brown, Zack Douglas, Jenny Greenwood, Shannon Whitaker
Ever lost or had your wallet stolen or had someone make unauthorized purchases on your credit card? With the use of innovative smart card technology our eWallet project will allow you to carry everything you would in a conventional wallet on one convenient card. With several security features such as a unique pin ID and biometric fingerprint authentication, no one will ever have access to your information but you. Easily add, modify or delete credit cards and move funds from your bank account to your eWallet from your home computer. Stop by to receive your free personalized eWallet with your personal information, biometric fingerprint and personal photo. Use it to make simulated purchases at a store, move money, edit your personal information and to show your identification.

P.A.D.D.: Gerbil
Pete, Aaron, Dave, Dan
Project Gerbil is a Real Time Strategy game, with rules based on the traditional game of chess, but implementing several new ideas. We want to incorporate using battlefields of different sizes, adding terrain obstacles to the battlefield, health points and a combat system for pieces to fight, and either the ability to create new units in game or to create custom armies inbetween matches.
SCHEDULE
Room 130 EMCB

10:00 am       Donuts, coffee, juice (EMCB 122)
10:00 am - 12:00 pm   Demonstrations
12:00 pm    Pizza (EMCB 122) and Judging

COURSE DESCRIPTION

CS 4500 is the senior software engineering laboratory where computer science students engage in a semester-long project to build a software system based on their own interests. Formally, the purpose of the course is the development of significant software systems by small student groups, with emphasis on applying sound, disciplined software engineering practice. Less formally, the purpose of the course is to give seniors the experience of planning, designing, and implementing a software system of their own choosing, while working collaboratively with a team of colleagues.