The Wetcam Project
Fall 2007: Wetlands Project Final Presentation
The Fall ’07 Team
Client: Grasslands Water District

✦ Student Team Members
  ♦ Jose E. Mendez – Leader
  ♦ Michael Welschmeyer – Sub-leader
  ♦ Tony Truong – Sub-leader
  ♦ Daniel Guevara – Communications Specialist
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  ♦ Heather Jackson – Recorder
  ♦ Aurora Carlson – Public Relations Specialist
  ♦ Francesca Devlin – Team Member
  ♦ Paul Kim – Team Member
  ♦ Brent Rich - Team Member
  ♦ Rodney Severson – Presentation Producer

✦ Mentors
  ♦ Tom Harmon
  ♦ Martha Conklin
  ♦ Samuel Traina
The Fall '07 Team

Not Pictured: Aurora Carlson
The grassland area is approximately 178,000 acres; this includes both state and federal wildlife refuges.

The grasslands provide habitats for hundreds of plant and animals species; this figure includes nearly fifty species that have been federally listed as threatened, endangered or sensitive (GWD, 1997).
The GWD
Team Proposal

- Construct and install the proposed webcam overlooking a section of the grasslands.
- Create a draft of an interactive website geared towards the education of children, the public, and other interest groups. In addition, the website will serve hunters who utilize the wetlands for game.
Proposed Ideas

- Regarding the Webcam...
  - live streaming to the internet
  - can be used for informational purposes, such as scientific data

- Regarding the Website...
  - fully interactive, “fun-to-use,” and highly educational content for use by children
  - encourage conservation through the delivery of grassland purposes and happenings
The Webcam

- Capabilities
  - Rotation and Zoom
  - Live Observation of the Grasslands
  - User Interactivity
  - Remote Controlled through the Internet
- Other Features
  - Environmentally Friendly
  - Utilizes Solar Panels for Power
  - Safe from Animal/Human Tampering
The Webcam

Example Interactive Webcam-Control Interface

Example Webcam and Solar Panel
The Prototype
Functionality

- Pan
- Tilt
- Zoom
- Preprogrammed Positions
- Fully-functional remote control of the webcam
Added Values

✦ Long Term Data
  ✦ the webcams may be used to document changes in the environment, such as population patterns and other seasonal changes (community-based research)

✦ Strikes Interests
  ✦ attract hunters to the wetlands if they can see what is there before they arrive
  ✦ an interactive and educational tool for educators and their students
  ✦ informs public of wetland happenings, such as maintenance, upkeep, and population control
Accomplishments

- Created a working demonstrative webcam to be set up at a specific location on wetlands property
- Proposed ideas for website and webcam interaction
- Drafted basic webpage designs
- Established client communication
- Organized our unattained goals for the use of next semester’s group
- Initiated prototype construction of the webcam
Thank You for Your Time

Feel free to ask the team any questions you have regarding this project

The University of California, Merced