Tablet PC Capstone CSE 481b

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Course Model

- TabletSoft
 - New software company planning a broad offering of educational/entertainment TPC applications
 - Management has identified candidate products
 - Develop a set of proof of concept prototypes
 - Evaluate potential applications
 - Performance review of developers

Logistics

- · Project ideas will be presented next
 - Complete the web survey to express project preferences by noon tomorrow (Jan 4, 2006)
 - Assignments will be announced Thursday, Jan 5.

Schedule

- Jan 19. Project vision
- Feb 2. Early prototypes
- Feb 23. Alpha version
- Mar 10. Projects due
- Mar 15. Final project demos, 10:30am-12:20 pm

Visual Studio Team System

- Visual Studio 2005
- Team Foundation Server
- Team Suite
- MSF for Agile Software Development

Logistics

- Department Lab Machines
 - Most Tablet PC development can be done on a Windows XP desktop machine
- CSE 003D, Tablet PC Lab
- Tablet PCs from Loaner Pool (Toshiba)
- Old Compaq Tablet PCs

The Projects . . .

- Handwriting Generation
- Playmaker
- Handwritten Slides
- Stupid Pen Tricks
- Sudoku
- Handwritten note Analysis
- Ink Replay with Editing
- Brainstorming Tool

1. Handwriting Generation

- Inverse of recognition
 problem
- Goal
 - System trained by an individual
 - Generate realistic appearing handwriting from typed text



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2. Playmaker

- Generate motion from diagrams
- Potential applications
 - Simulation of actions

 Input to sports or RTS game









6. Free form note analysis · Develop post processing for handwritten notes 鎌 · Identify structure and

- content
- · Search and cleanup scenario
- Large collections of notes available for project use



7. Ink replay with editing

- · Develop system for capturing and replaying ink
- Support editing of ink (cleanup of strokes, correction)
- Scenario ٠
 - Dynamic diagrams for education





Submit Project Preferences

- Web Survey abstract.cs.washington.edu/~valentin/ProjectPrefs/questionnaire.cgi
- · Submit by noon, January 4

Project grading philosophy

• What do you want to get out of the course?

Grading criteria

- Prototype
- Agile Process and VSTS Tools
- Deadlines and Presentations
- · Code quality
- Design methodology
- Project Architecture
- Testing methodology and execution
- Engineering quality
- User Interface
- Release quality
- Development process
- User and technical documentation
- Technical Innovation
- Business Case for Application

Implementation

- · Initial weights
 - Prototype 40
 - Tools and process 10
 - Deadlines and presentation 10
- Assign remaining 40 points to at most 3 components
- Team evaluation criterion
- If team members don't agree on evaluation criterion, the default is 80:10:10