

CMSI 402 SENIOR PROJECT LAB
Project Status Report

Name: Mark S. Kolich
Date: Tuesday, January 25, 2005
Project: Silhouette (Real-time Shape/Color Recognition)
Period: January 18, 2005 through January 25, 2005
Project Goals: Silhouette will implement a known shape detection algorithm and package it into a powerful and easy to use open-source application written in Java. The application will be developed to highlight the performance of the algorithm using a live JPG stream from an Axis network-camera.

Accomplishments

- Successfully investigated and located several powerful real-time image processing algorithms used to detect shapes and colors.
- Began experimenting with several shape-recognition algorithms under a JAVA platform.
- Experimented with several applets implementing other popular shape/color detection algorithms.
- Consulted with Dr. Dionisio for further direction on shape/color detection theory. Located several papers.
- Prepared a finalized project proposal. Submitted on January 19th.
- I have selected the Waterfall Development method for my project.

Plans

- Continue analysis phase by researching several papers on shape and color Recognition.
- Prepare a finalized list of project requirements, a description of the human-computer interface, and address any other project issues. All documents will be inserted into my project binder.
- Develop use-cases and formal scenarios from project requirements.
- Create use-case diagram by February 1st. Have all remaining documents complete by February 1st.

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Risks

- Initial research is showing that shape detection algorithms are, while popular and widely used, hard to implement and understand. I will continue to experiment and understand these algorithms as the analysis phase continues.
- The project development schedule seems a bit tight. Because of the paperwork required for the project binder, I have decided it's optimal to use the Waterfall Development method.