1 CS699 Project Report-Stage I

1.1 Problem Overview

DrawSWF is a drawing program written in Java2. You can create your drawings interactively and save as an animated flash file. The current program animates the drawn objects one by one and simulates the drawing sequence. Although one can create quite rich animations using this technique, its not possible to create animations that require moving objects. We are targetting to implement this missing functionality and related enhancements that will enable us to create various algorithm animations.

1.2 List of deliverables

1.2.1 Maximum Wish List

1. Changing animation speed at certain stages in the animation(simulating acceleration)

2. Functionality to move animation objects along specified spline.

1.2.2 Minimum Guaranteed

1. Functionality to move animation objects along straight lines

2. Functionality to rotate and scale animation objects

3. Functionality to group objects

4. Functionality to hide an animation object at a certain stage in animation and making it reappear at a specified later stage

1.2.3 Fall-back safe alternatives

1. Bezier Spline drawing

2. Additional shapes like polygons, cornered rectangles etc.

1.3 Plan of work

1.3.1 Milestones

Milestone 1: $15^{th}Oct$

- Functionality to group objects

- Functionality to hide an animation object at a certain stage in animation and making it reappear at a specified later stage

Milestone 2: $22^{nd}Oct$

- Functionality to move animation objects along straight lines

- Functionality to rotate and scale animation objects

Milestone 3: $12^{th}Nov$

- Functionality to move animation objects along specified spline.

- Changing animation speed at certain stages in the animation (simulating acceleration)

1.3.2 Effort Estimation

Task	Effort(man hours)
Changing animation speed at certain stages in the animation (simulating acceleration)	15
Functionality to move animation objects along specified spline	10
Functionality to move animation objects along straight lines	20
Functionality to rotate and scale animation objects	20
Functionality to group objects	10
Hiding animation objects	10

Table 1: Effort estimation in hours

1.4 References

1. DrawSWF website: http://drawswf.sourceforge.net/