

CS 550  
Final Project Proposal  
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## **a Brief Solar System**

I am planning to display a solar system for my final project. This project will consist of:

- A stationary Sun is in the center of the world coordinate. A Mercury, a Venus, an Earth, a Mars, a Jupiter, a Saturn, a Uranus, and a Neptune are moving around the Sun as a circle track.
- Each planet has rotation and revolution.
- The Sun is lighting. The planets are textured.
- The Saturn has its ring. The Earth has the Moon.
- The size of the system and each aster will not be perfectly scaled down, but the rotation and revolution time of each planet will. This work will be done on research.
- The rotation and revolution of the planets and the lighting of the Sun are controlled by keyboard or right-mouse menu.
- Both orthographic and perspective views will be implemented.
- Drag the left-mouse button to rotate the eye sight view. Drag the middle-mouse button to zoom in or out.