Software Process Model and Justification

The Software Process Model our group chose to use is the spiral model. We chose the spiral model because it combines the iterative nature of prototyping with the controlled and systematic aspects of the waterfall model. We want to build our system iteratively so that we can always have a growing prototype of the system once we finish implementing the basic functionalities. In this way, even if we don't get to finish all of the proposed functionalities in the system request, we'll still have a partially working prototype system to demonstrate with. We also want to build the system systematically with planning, modeling, construction, deployment, and communication such that at the beginning of each iteration we can make adjustments to the project plan based on feedback and change in resources, schedule, and other circumstances. In this way we can keep our software developing process flexible and dynamic.