

# Computer Science 3053

## Human-Computer Interaction

### Group Project Plan

Every successful software development project has a plan. For your group project this semester your first "deliverable" will be a plan. Specifically a software development project plan includes a description of the process(es) for developing the software throughout is software life cycle. Every development project engages in the same life cycle stages: Requirements Elicitation & Documentation, Analysis, Design, Implementation, Testing, and finally, Deployment. Some stages may be more prevalent than others, may be more intensive than others, or may be completed in parallel with others. The method(s) for entering, working on, and producing artifacts in each stage is known as the Software Life Cycle Model. The development plan you construct will identify a life cycle model that your group will use, map it to a set of fixed milestone dates, and (in a general way) assign your group's membership to various tasks.

Three very popular Software Life Cycle Models are sequential (also known as Waterfall), Spiral, and Rational Unified Process models. These models were demonstrated in class on Thursday, March 10, but additional information about them is available online and in many development-oriented textbooks. Your group project plan will identify one of these (or another) life cycle model that your group will use to develop your software project this semester. Additionally, based on the life cycle model your group chooses, the plan will also include a schedule mapping some major milestones of the project (e.g. completion of documentation of all requirements, or feature X implementation and testing completed) to appropriate dates in order to have meaningful progress to report on in progress reports (see below). Finally, the plan will identify which group members are responsible for the major milestones and/or life cycle stages (i.e. it may make sense for a single group member to lead the Design stage of the project, or to lead Implementation and Testing of a specific feature, or it may be most efficient that all group members work equally and cooperatively on all project milestones and activities).

Throughout the remainder of the semester, the following dates are due dates for progress reports in which you will submit a written report (1 or 2 pages) describing your progress on the project with respect to your plan.

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March 24	Group Project Plan due
April 7	Progress Report 1 due
April 21	Progress Report 2 due
April 28	Final Project Report due

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The Final Project Report due on April 28 will include:

- Documented requirements for your project in the form of Use Cases (generally, though some non-functional requirements may be documented outside of Use Cases)
- Description of the planned, and actual, architecture design of the software (e.g. MVC, client-server, layered, microkernel, microservices)
- List of software features, mapped to the requirements (Use Cases) they meet/fulfill
- Description of testing activities and results