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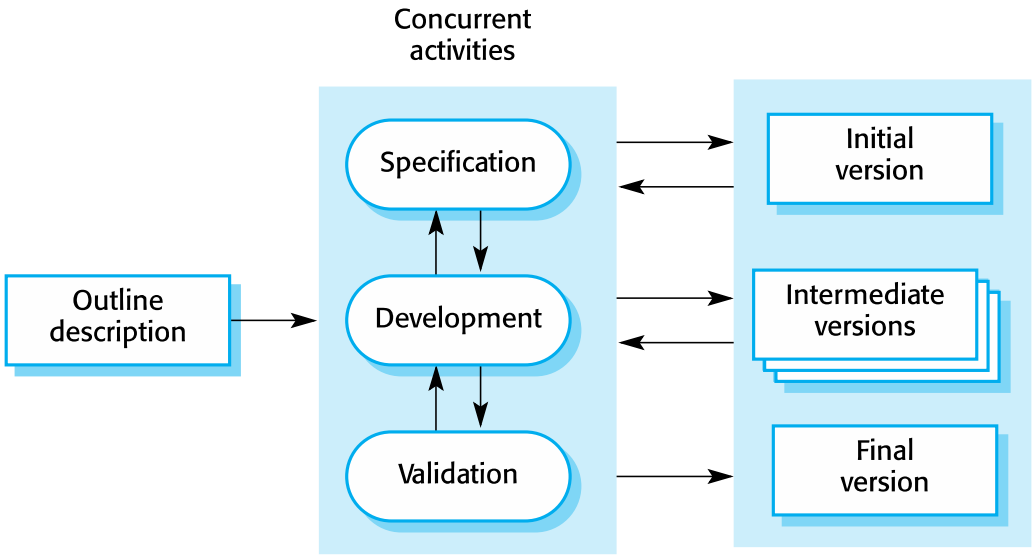
ELEC-3225-03B

Incremental Development Model Diagram:



University Scheduling System Implementation:

First, the system's requirements/descriptions are defined. The scheduling system for a university allows three different users (Student, instructor, and admin) to add courses, print schedules, search for courses, etc. Each user has different options in the system. The database could potentially work for 100 students, 10 instructors, and one admin. There will be one base class (User) and three derived classes (Student, instructor, and admin). The user class will have three attributes (First name, last name, and ID), and methods to set each attribute and print all the attributes of the user. The derived classes will have no additional attributes. The main code will has if statements for each derived class selected by the user.

Basic versions of the main code and class files are tested first by the user. Based on the user's feedback, the overall system is changed. The system is split into three sections: the main code, base class code, and the derived class code. Newer versions of each of the sections are created at the same time based on user's input. For the first version, the user, student, instructor, and admin classes and main code are created with limited functionality. Based on user feedback, certain sections would be updated, and a second version would be created. Maybe the user wants

more options for the student and instructor user or wants the user interface to improve in certain ways, so a second version would be developed to meet those needs. New versions would be made available to the user until the user is satisfied with the final system. Each new version will have more functionality than the previous version.