Waterfall Model: Scheduling Systems

Requirements:

Back-end:

Database of Users, courses, Users(Student – Instructor – Admin – etc)

Scheduling Periods(Semester-by-Semester basis, Planning)

Constraints: 100 students, 10 instructors, 1 admin

System and Software Design:

User creation / User Permissions (coding / object-oriented)

Student: Access their schedule - List of classes to register - Adding/Dropping courses

Instructor : Access to roster - schedule

Admin : add/remove users, users from courses, courses from system, search/print roster and courses

Front-end:

Web-dev / User-Interface design

Creating pages/ buttons

Implementation:

Create a main page for the user to access their info, ability to register or view classes depending on their level

Pages (Information, course list, registered classes list)

Create buttons for the user to navigate through different pages / print any of the page info

Test

Allow for other groups, people in general to test and register for any given semester if they are a student. Otherwise, can look at a sample size of students registered, or can manipulate the classes and user available.

Deploy

Upload software online or store it somewhere for reuse.

Maintenance

Allow for user feedback on a public platform (forum, social media) and adjust cater to concerns