ELEC3225 Applied Programming Concepts

Assignment #2

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**Integrate and Configure Model:**

**Requirements Specifications:** We need to find a website or system, similar to what we would like to create, and base our system around it. In this project we will be designing a scheduling system for a university similar to LeopardWeb. The system will allow students, faculty, and an admin (such as the registrar) to add courses, search for courses, print schedules, etc.

**Component Analysis:** The existing software that we can base our project off would be the current LeopardWEB or any other college’s scheduling system with the same purpose. Since LeopardWEB is an already existing platform, we will be able to match some of the functionalities with our project.

**Requirements Modification:** The things that we would need to revise when basing our project off the current LeopardWEB system would only stem from our project. For example, we only need 100 students, 10 instructors, and 1 administrator, whereas the “real” LeopardWEB has a lot more students, instructors, and administrators. Also, the complexity of our project will most likely not be close to the level that the actual site is on (quality). This should only take about a day to get done.

**System Design with Reuse:** The system design with reuse will be like the LeopardWEB system but not totally the same. The database, and GUI will be different but will be modeled after the existing website. The functions and or methods will be similar, which is where most of the reuse will be from.

**Development and Integration:** This part will be strictly built from us. This is because although we want to sort of re-use the design of LeopardWEB, we still want to add our flair so there is no copyright infringement. It sounds silly now because we go to the school, and use LeapordWEB almost every day, but if we were out at a real company or doing a solo project, we must create our own system even though we are using an existing system for reference.

**System Validation:** With this model, the main way we are going to validate our system would be to compare our system with the “real” LeopardWEB system. Although it will not be the same, we can check out all the key similarities to make sure we did a good job to reuse the design. The good thing about this model is that it is easy to reuse a design and to base a system off it. Validation with this model comes easy, because we will know that if it is like the previous system, ours will work.

**Link/Path for Integrate and Configure:**

[my.wit.edu](https://my.wit.edu/campusm/home#menu) 🡪 Leopard WEB (Path to Reused Site)