**CS 6440 Student Project Proposal**

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| **Project Title:** SMART on FHIR Application for an Existing Clinical Decision Support System (CDSS) for Hospital Discharge Decision Making | |
| **Mentor 1 Name:** James C. Cox, PhD, GSU | **Mentor 1 Email:** jccox@gsu.edu |
| **Mentor 2 Name:** John F. Sweeney, MD, Emory | **Mentor 2 Email:** jfsween@emory.edu |
| **Project Background:** The mentors developed an alpha version of a clinical decision support system (CDSS) for hospital discharge decision making. The CDSS performed well in experiments with residents and advanced medical students. | |
| **Project Objective(s):** This project is development of the beta version of the CDSS as a SMART on FHIR application. | |
| **Description of the Solution:** Clinical trials on hospital wards can best be conducted with a SMART on FHIR application for the CDSS that interacts with electronic health records in real time. | |
| **Desired Student Skills/Background:** Expertise in SMART on FHIR development. | |
| **Data Requirements and Potential Sources:** We have de-identified electronic medical records data. | |
| **Other Comments:** Interested students are cordially invited to work with us on the project. | |