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## JAMES C. COX

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### **Required Skills:**

Expertise in SMART on FHIR, Java Web Server development to understand current work. HTML and JavaScript for Graphical User Interface (GUI) improvement.

### **Preferred Team Communications:**

WEBEX, Skype or Conference call

### **Data Sources:**

You will work with data from Cerner's FHIR Sandbox.

### **Other Items:**

Project has timezone flexibility. Mentors and students will determine a good time for virtual meeting

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## CLINICAL DECISION SUPPORT SYSTEM (CDSS) FOR HOSPITAL DISCHARGE DECISION MAKING

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The mentors developed an alpha version of a clinical decision support system (CDSS) for hospital discharge decision making that performed well in experiments with residents and advanced medical students. We are looking to develop and deploy a CDSS on Emory University Hospital's SMART on FHIR electronic health records when available. We worked with students in this course in previous years to begin development of a SMART on FHIR application.

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### PROJECT OBJECTIVES

To improve Graphical User Interface from previous work on CDSS as a SMART on FHIR hosted application.

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### SUCCESSFUL PROJECT

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This team will further development of the CDSS as a SMART on FHIR hosted application based on previous year's work. The current application can request needed data from FHIR services and apply a mathematical model to queried FHIR data to generate a discharge recommendation. This team will work on Graphical User Interface (GUI) based on HTML and JavaScript technology.

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**Intellectual Property:** Project involves a government agency so the resulting project is made available to the public. Students do not own IP. Students will be recognized as contributors