

# CISC 499 Projects

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## Mobile Application for Cardiac Rehabilitation Patients

People with heart problems typically have many questions about their condition and seek out information about a variety of topics including, risk factors, symptoms, physical causes, surgical procedures and the various components of cardiac rehab programs. People naturally turn to the Web for answers but it is difficult to efficiently obtain high-confidence answers to these questions with traditional search techniques.

We are planning to use IBM's Watson system to overcome the above problems and to help provide patients with a reliable and friendly tool to answer their questions. The goal of the project is to develop a mobile app that serves as a front-end question-answering tool for cardiac rehab patients. The app, at a minimum, will use Watson's APIs to ask questions and return answers.

**Background:** Familiarity with developing Web-based applications with database backends (eg CISC 282 or CISC 332) is required. Familiarity with mobile app development is strongly recommended.

## Athlete Testing Database and Reporting System

The purpose of the Athlete Testing System is to store and provide easy access to the testing results of athletes. The data maintained on an athlete includes anthropometrics, posture photos, and results from a variety of tests on speed, agility, quickness, power, strength and conditioning. The database will be part of a Web-based application that allows the trainers to query the data on an individual athlete or team and to see reports that compare athletes or show a specific athlete's progress over time.

**Background:** Familiarity with developing Web-based applications with database backends (eg CISC 282 or CISC 332) is required.