
ALYSON GOODMAN & MONA SHARIFI

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Required Skills:

Mobile App, Stand Alone App Development, Responsive Web Design, Human Centered Design, Workflow/Process Optimization, Project Management, Communications

Preferred Team Communications:

WEBEX, Skype or Conference call

Data Sources:

Georgia Tech synthetic data will contribute to the project. In addition, a pediatric synthetic data set on FHIR server available

Other Items:

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

Prior Applications:

Provider

App: <https://fhirtesting.hdap.gatech.edu/HealthWeightProvider/>

Patient

App: <https://fhirtesting.hdap.gatech.edu/HealthWeightPatient/>

Final

Presentation: <https://www.youtube.com/watch?v=VpR6uSEf8Iw>

HEALTHY WEIGHT ON FHIR

To better understand and respond to the public health need for child obesity surveillance, clinical quality improvement, and research, CDC's Division of Nutrition, Physical Activity, and Obesity seeks to build Healthy Weight application(s) using HL7 FHIR and SMART on FHIR capabilities. The proposed project will map key healthy weight data elements to existing FHIR resources, identify gaps and propose solutions using FHIR for healthy weight behaviors and other elements, and then use these resources to develop healthy weight applications to bridge the divide between families, clinicians, community resources and public health. These applications will build on prior semesters' work, and include caregiver healthy weight data input to a smart device, transmission of these and clinical data between families, clinicians, community resources and public health, clinical decision support to improve uptake of expert guidelines for child obesity prevention and treatment, and enhanced structured data capture for program evaluation and research. Necessary FHIR resources include individual-level identifying, demographic, height, weight, vital signs, laboratory results, and select health behavior data.



PROJECT OBJECTIVES

- 1) To develop (and improve existing) Healthy Weight applications using HL7 FHIR and SMART-on-FHIR capabilities
- 2) To enhance features of the patient/family-facing app (for mobile devices), including structured data capture on health behaviors, and bi-directional referrals to/from community resources (ex: food pantry, parks & rec department, weight mgmt. program)
- 3) To enhance features of the clinician-facing app, including adding elements to the pediatric growth charts, suggested laboratory tests, bi-directional e-referrals to/from community resources

SUCCESSFUL PROJECT

- Enhanced Healthy Weight proof-of-concept applications near-ready for pilot implementation in a pediatric healthcare system
- Excellent mentor-student relationship with bilateral clear communication and information flow
- All developments/materials posted to CDC-GT Github server, manual & links to apps delivered via e-mail to project supervisors

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

