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# COURTNEY HART

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[hartcourtney@gmail.com](mailto:hartcourtney@gmail.com)

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## Required Skills:

(List skills needed) – To Be Discussed

## Preferred Team Communications:

Conference Call, WebEx / GoToMeeting

## Data Sources:

Center for Disease Control

## Other Items:

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

## Team Info:

Needs a Developer, DBA, Project Manager. Allows one team of 4-6 members.

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# IMMUNIZATION TRACKING AND ALERTS FOR SCHOOLS

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Immunizations are important to population health, especially where groups of humans are in close contact every day such as schools. While not every student can be immunized (for instance, because of other health conditions such as a compromised immune system or allergy to a component in vaccines) as long as the majority of the population is immune they are protected in this community. Some diseases, such as measles, have occurred more frequently in recent years, especially in populations where vaccination rates have fallen. Many schools and universities track the vaccination status of their students as a matter of safety. The assignment for this project is to develop a web app that supports school health administrations in tracking and monitoring their populations vaccination rates. For instance, if too high a proportion of students have not had the meningitis vaccine the app will alert administrators of this risk. The app will supply recommendations based on reputable guidelines (see the CDC website, for instance) so schools can further educate and encourage their populations of students to become vaccinated.

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## PROJECT OBJECTIVES

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A finished webapp, deployed per course guidelines, that an administrator can use to log student vaccination status and provides feedback to administrators if any actions are recommended (eg: "consider organizing a flu shot clinic for parents and students before flu season gets underway" or " n% of third graders have not had their measles vaccination -- consider encouraging parents to do this for their students."

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## SUCCESSFUL PROJECT

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1. users can login and have a basic profile
  2. users can add data for "students" (make this up) including vaccination status, date
  3. some feedback/monitoring that alerts administrators and provides actionable information if vaccination rates change or become too low
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**Intellectual Property: None**