CSCI4448: Project Part 1 Spring 2014

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Title: Snap for Life

Description:

   Develop an mobile application where emergency medical responders can collect immediate patient information and images in the field, such as at the scene of an accident or in an ambulance. They will be able to select the type of accident and a receive a simple set of customizable questions to answer about the patient's condition. The set of questions will be configurable ahead of time by medical staff to match a particular medical situation. The medical responders on site will be able to upload the photos and information of the patent's energies to be accessed quickly and securely via a web page by the emergency room personnel.

   The objective of this application is to reduce hospital mortality rates by improving the speed and quality of communication between medical emergency responders and hospitals in order to enable better preparation and care for the patient. The data will not be stored on the user's personal mobile device so that HIPAA violations are safely avoided.

Platform/Environment:
iOS (Stretch: also Android and Windows)
Web with Java-based backend

Languages:

Language	Alexia Newgord	Mark Lohaus
PHP	Intermediate	Expert
Java	Intermediate	Intermediate
JavaScript	Beginner	Expert
HTML	Beginner	Expert
CSS	Beginner	Expert
Objective-C (?)	Beginner	Know nothing

Functionality:
  - Emergency responder logs into mobile application
  - Emergency responder takes image(s) with mobile device
  - Emergency responder checks applicable fields in mobile application form
  - Emergency responder add comments in mobile application form
  - Emergency responder submits reports through mobile application

- Hospital logs in via website
- Hospital receives reports/images via website
- Admin logs in via website or mobile application
- Admin adds/removes users via backend database
- Admin customizes fields of the form

Stretch Functionality:
- Emergency responder or the emergency room can suggest priority level
- System suggests equipment/personnel to prep for patient
- Emergency responder may use Android, iPhone, and Windows mobile devices
- Emergency responders may use mobile phone to mobile phone communication in the case that a police officer arrives at the scene first and needs to communicate with the paramedics/EMTs
- Emergency responder may send report to hospital of choice
- Hospital may respond or confirm receipt