

COSC 4355 Ubiquitous Computing

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The vaccination application herein is also known as the “app,” aims to resolve a number of critical issues as described in the RFP.

With the help of modern technology at his fingertips, a health administrator will have a few options to retrieve vaccination information for a child whom her record is misplaced, lost or forgotten. A built-in scanner in the application uses the device’s camera to detect and decode a QR code containing a unique identifier. This unique identifier is used to retrieve the record from a backend database communicating over distributed networks using a common protocol. Other personal information fields are searchable to help retrieve the record as well.

A medical record is considered to be personal information. Therefore, the app provides a login and logout feature to permit only authorized personnel. Also, the app provides a new password requested for authorized personnel if they forget their password.

The app is created with an intuitive design utilizing a button bar to allow the user to move easily between sets of data. The child’s vaccination information is shown clearly through use of color-coding, a legend, and unmistakable keywords. New information can be easily added. Existing can be modified.

The app helps to eliminate administering of incorrect immunization shots and dosages. The app helps the health administrator identify missed or off scheduled immunizations through visual notifications. Next immunization date is automatically given.

In considering the requirements for the RFP, the developers and designers of the app hope to have fulfilled all of these while making it easy and intuitive.