REEV.US

An Android Application

Milestone

ABSTRACT:

REEVUS is an android application that is based on the class website REEV.US/MSCS630S17. It includes all the information that the website has and additional features like log-in and FAQ section. This FAQ section uses encryption to encrypt the questions and answers. REEVUS implements authentication while logging into the app and encryption in the chat area. This application also implements different types of ciphers and helps users understand cryptography in a better way.

Students will have to sign up using their cwid. Only students who registered for the course will be able to sign up successfully and use the application.

INTRODUCTION:

Reev.us gives everyone access to the start page but only registered users can have complete access to the schedule and FAQ section. Users registered for the course will be given a code using which they will be able to register into the app successfully. Reev.us contains all the information about the course including the course objective, textbooks, policies, about the professor etc. There is a schedule section that contains information about labs and assignments that are used for entire semester.

The FAQ section lets students ask any course related question. The login section of the application uses MD5 to encrypt the user credentials. These passwords are encrypted and stored in the database.

METHODOLOGY:

Securing the Internet presents great challenges. Applications such as Internet voting, universally available medical records, e-commerce, bank details are all being hindered because of security and privacy concerns. Encryption is a system of mathematical algorithms that encodes user data so that only the intended recipient can read it. It enhances the security of a message or file by scrambling the content. Reev.us uses AES 128 bits algorithm to encrypt and decrypt the questions.

SYSTEM SPECIFICATIONS:

Hardware Requirements: A mobile phone or a tablet.

Software Requirements: Android OS version 4.3 or above.

Programming Languages: Java, HTML, XML, SQLite

IDE: Android Studio

REFERENCES:

- Projects Overview. (n.d.). Retrieved May 07, 2017, from https://developer.android.com/studio/projects/index.html
- Message Digest- Java Platform SE7. (2016, January 11). from https://docs.oracle.com/javase/7/docs/api/java/security/MessageDigest.html