COSC 3326: MOBILE PROGRAMMING
Assignment # 4: due on Tue. 10/25/2022 at 11:59 pm
Remaining late days may be used in this assignment if needed.
Check "Late Days" policy in syllabus for more details.

Password Reminder

Create an iOS application that uses local data persistency (UserDefaults or CoreData) to permanently store and remind you of your websites' account credentials (usernames & passwords). Your application should list all the websites that you would like to store your account credentials and should also allow you to add more website accounts. The websites should be listed in a table format using a dynamic TableView and when you click on each cell, it should open another view that displays the website name, the URL, and the account log-in information (username & password) that you have for that website. When users click on the website URL, the linked website should open up in the browser. In addition to adding new websites, users should be able to delete existing website information as well.

To add an extra layer of security, your application should start by requesting the user to enter their correct login information (username/password) of the app itself before they can view the list of their saved websites (similar to the "Log in" application we implemented in class). For submission purposes, set the username ("test") & password ("test") to allow me to log in into your application.

Examples of exceeding expectations:
- Add a password generator feature that generates random alphanumeric passwords containing special characters and of length at least 8 characters.
- When the website opens in the browser, the website account credentials will be automatically auto-filled into the website's username and password text fields.

Instructions:

- Make sure your app runs properly on the iPhone 13 Pro simulator, and the app is implemented using Xcode v. 13.4.1, with Swift 5.6 and for iOS 15.5.
- Make sure your app name, images, and content are academically appropriate.
- Include your name in the launch screen in the form of credits or copyrights.

What to submit: (all compressed in one zipped file)

1. Your Xcode project folder (application source code).
2. Your application bundle file .app file. Check instructions on Canvas.
3. A demo. video recording (with audio) of your app. Video length must be between 30 seconds and 3 minutes, and follows the video recording instructions below.
4. In one PDF file, write a short app description advertising your application along with at least 5 screenshots of your running app (like those you see in the App Store when advertising the app).

Grading: (Total points: 10 pts.)

- (5 pts.): Application satisfies requirements, error-free (no crashing), and application components are functioning as expected.

- (2 pts.): Application is user friendly, easy to navigate, nice GUI, good color scheme.
- (1 pt.): Application must include an app icon and launch screen (with student name).
- (1 pt.): Application exceeds expectations. Make it clear in the submitted video recording to which feature(s) in your application you consider as "exceeds expectation".
- (1 pt.): A demo. video recording (with audio) demonstrating the application.
- (- 4 pts.): Missing Xcode source files or Xcode project not running properly.
- (- 2 pts.): GUI is not user friendly.
- (- 1 pt.): Missing app icon or launch screen (with the student name).
- (- 1 pt.): Missing the .app file or the PDF file containing app description and 5 screenshots.
- (- 1 pt.): Missing video recording with audio that follows video recording instructions.
- (- 1 pt.): Missing "exceeds expectations" feature.

Video Recording Instructions:

The purpose of video recording your solution is to demonstrate and walk us through the mobile application you developed for this assignment. Make sure the length of your video is between 30 seconds and 3 minutes, and includes the following:

1. Introduction: Student name, course, semester, homework #
2. Explain the purpose of the application
3. Walk through the application, show all app. screens and features.
4. Explicitly mention the "exceeds expectation" feature(s) you implemented (if any)
5. Overall picture and a simple thank you for watching

Final note, please be professional in the recording to a certain extent. Be brief in explaining your application and do not repeatedly demonstrate similar functionalities. All things recorded (picture and audio) in the video must be academically appropriate.

Submission Checklist:

Use this checklist to make sure your submission contains the following:

- ☐ Application with all required components
- ☐ Application project files and source code
- ☐ Application bundle .app file included
- ☐ Application demo. video recording with audio
- ☐ App description and screenshots in one PDF file
- ☐ App icon, launch screen, and good GUI
- ☐ Your name in the launch screen
- ☐ "Exceeds expectation" feature(s) mentioned in the video recording
- ☐ Submission files downloaded and checked for missing files

Always let me know if you have any questions or need more clarification on the assignment or submission instructions.

Good Luck ☺