CSCI 3313- spring 2021- Final Project Proposal with end:

Device Name: Iphone Platform: iOS

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App Name: Brow & glow app

Project Description:

Our app, Brow & Glow, will provide a central place for all the workers working in the salon to check in, check out at time, make appointments for customer, add collected tip to each stylist's account, look for customers history and check prices for customer. The salon has been working in an old register system where nothing was recorded electronically. With this app it will be easier to keep the entire system functioning without having to keep a journal log of it. It'll be quick and easy.

What we propose to do is create an app that will do the following:

- The system shall allow to add new workers/stylist working in the salon
- The system shall allow stylist to input credit tip provided by the customer into their profile.
- The system shall allow sign Up for customers.
- The system shall list all the prices of the service and look at the service.
- The system shall allow customers to book appointments for the customer.

We plan to incorporate the following features:

- Accelerometer- our app will respond in an appropriate way to tilt movements. Even if it is used horizontally or vertically it still work.
- Camera- Stylists can take pictures of their work and upload their work, creating a portfolio for each stylist.
- Consume a pre-built web service - We will parse the PDF provided by the website to list all the prices.
- Data storage using key/value pair storage - We will store the customer's email while doing appointments, along with other basic information on the device.
- Open shared activity / features - We will provide the student with the ability to email regarding a day off for stylist.

After the end of the Project:

- Platform Justification –

I Felt like working with iOs was comparatively easy then compared to android. It was easy to work around as we are all familiar to Iphones.

- Major Features/Screens - Include short descriptions of each (at least 3 of these)
  1. **At least 3 "screens":** The app has multiple screens and navigation to those multiple screens.
  2. **App can rotate:** The app can easily rotate portrait to landscape without any interruption.
  3. **Design and Presentation:** Well presented designs for each page including the launch pad

- Optional Features - Include specific directions on how to test/demo each feature and declare the exact set that adds up to ~60 pts

1. **GPS / Location-awareness (includes using Google or Apple Maps):** The app uses the location of the user in some meaningful way in the app.
2. **Camera:** The app uses the camera to take a picture and use it directly in the app.
3. **Accelerometer:** The app responds in an appropriate way to tilt movements.
4. **Build and consume your own web service using a third-party platform (i.e Firebase):** The app uses a web service that requires some level of serious customization: Use of A Firebase, a mobile-ready cloud-based database you can use for free.
5. **Data storage using file read/write or data serialization read/write:** Writing pre-built information regarding service/list on an array form to system
6. **Data storage using key/value pair storage (SharedPreferences or UserDefaults):** App stores information in firebase storage to save the data
7. **Open shared activity / features (i.e. Create an email to send, share with a text message, etc.):** App opens up email for sending feedbacks

- Testing Methodologies –

I used the Simulator present in Xcode to test the app.

- Usage –

You can SignUp for customer with your our email and password, however Login for employee has to be generated by the admin the code is:

- Email: abcd@abcd.com
- Password: abcdef
- Employee Id: 1234

- Lessons Learned –
  - This class has been a very interesting class for me. I learned a lot about how to build applications. At this assignment, I had no idea how an iOS application using core Data or

Firebase is created. The first thing I learned from this app is to use Cocao pods in XCode. I had used XCode before for my C programming class, but this is my first time building an application through it. For me, I found it to be much easier to build an app at iOS then to make an android app. I learned swift language, which is very similar to Java. The first thing that I learned will writing this program was how the main screen and the other screens of the application was manipulated. It was very convenient to work on the storyboard and to at labels and buttons then to code it. It was very visual. The other lesson I learned was to use the view controllers and create different view controllers to manipulate each screen. But after watching tutorials an tutorials of building applications, things got easier. This app was fun to make an very informative.

- ## Wireframe Description:

Our wireframe shows the basic layout we are envisioning for our app. After the launch screen appears, there are three main tabs for the 2 main functions. One tab is there for guest login and other for employee login. There is also a map that points your current location and a button that opens an email and lets you email us for feedbacks. If you go towards guest button. You will find multiple option- like look for service, book an appointment and signup for service. If you go towards sign up, you will see two text fields where you can add email and password and create an account for yourself. On the employee side of the Home menu, you can login, When you login you see a page where you can view services or add photos of your service.