TAILORED NUTRITION

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ADVNC APL:CPSTNE MAJ CSCI 49900
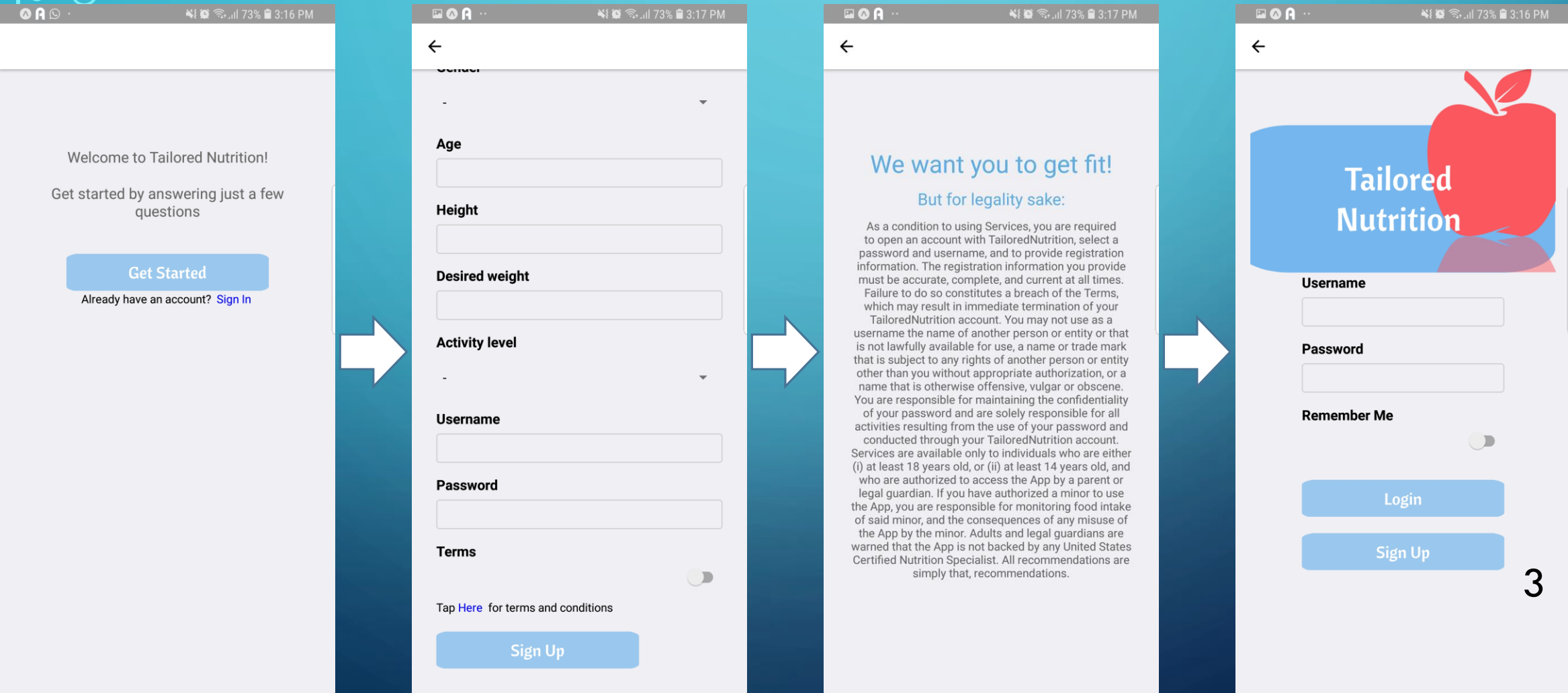
4/15/18

WHAT WORKS:

- **Majority of UI** – Our UI is almost complete:
    A. Welcome screen
    B. Sign Up screen
    C. Sign In screen
    D. User Profile screen with:
        a. NutritionX search tab
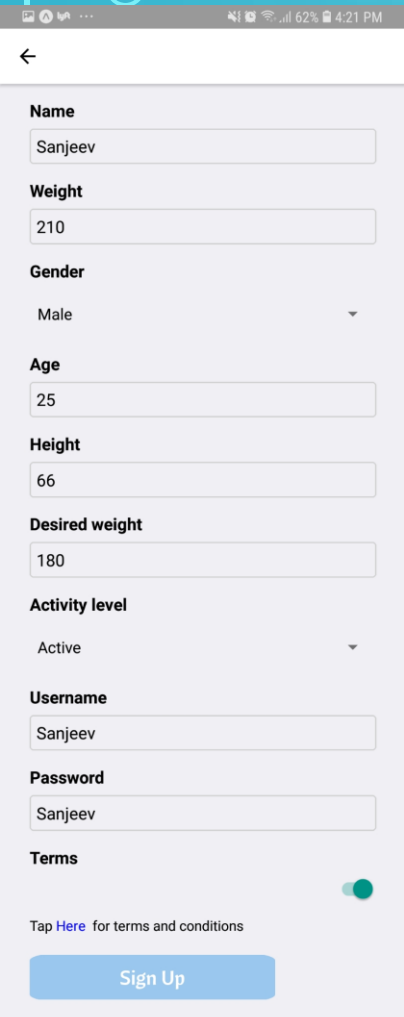   b. User log

WHAT WORKS:

- **Majority of UI** – Our UI is almost complete:
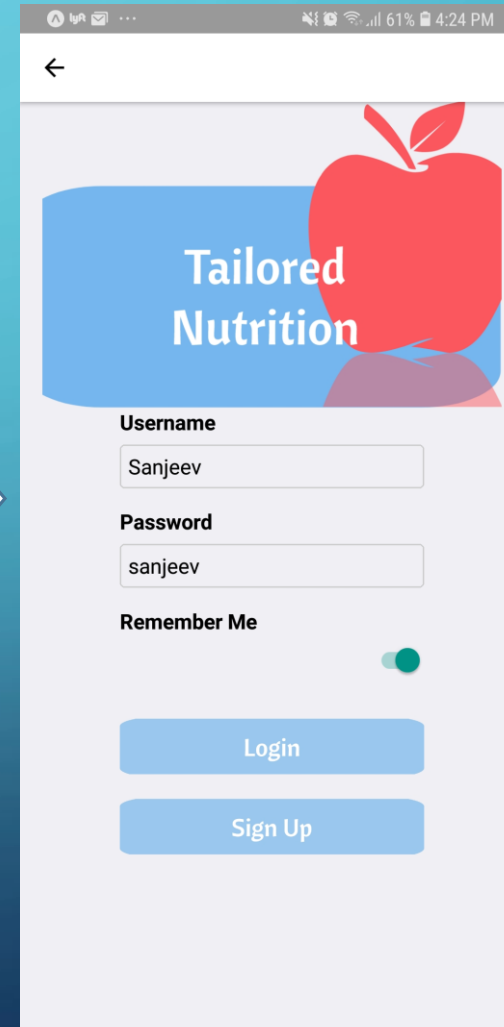
Welcome to Tailored Nutrition!

Get started by answering just a few questions

Get Started

Already have an account? Sign In

Age

Height

Desired weight

Activity level

-

Username

Password

Terms

Tap Here for terms and conditions

Sign Up

We want you to get fit!

But for legality sake:

As a condition to using Services, you are required to open an account with TailoredNutrition, select a password and username, and to provide registration information. The registration information you provide must be accurate, complete, and current at all times. Failure to do so constitutes a breach of the Terms, which may result in immediate termination of your TailoredNutrition account. You may not use as a username the name of another person or entity or that is not lawfully available for use, a name or trade mark that is subject to any rights of another person or entity other than you without appropriate authorization, or a name that is otherwise offensive, vulgar or obscene. You are responsible for maintaining the confidentiality of your password and are solely responsible for all activities resulting from the use of your password and conducted through your TailoredNutrition account. Services are available only to individuals who are either (i) at least 18 years old, or (ii) at least 14 years old, and who are authorized to access the App by a parent or legal guardian. If you have authorized a minor to use the App, you are responsible for monitoring food intake of said minor, and the consequences of any misuse of the App by the minor. Adults and legal guardians are warned that the App is not backed by any United States Certified Nutrition Specialist. All recommendations are simply that, recommendations.

Tailored Nutrition

Username

Password

Remember Me

Login

Sign Up

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WHAT WORKS:

- **User Database–** Our application creates user accounts and allows for users log in properly:

```
16:18:59: Struct {
16:18:59:    "ActivityLevel": "1",
16:18:59:    "DesiredWeight": 180,
16:18:59:    "Height": 66,
16:18:59:    "Name": "Sanjeev",
16:18:59:    "age": 25,
16:18:59:    "gender": "0",
16:18:59:    "password": "sanjeev ",
16:18:59:    "terms": true,
16:18:59:    "username": "Sanjeev",
16:18:59:    "weight": 210,
16:18:59: }
16:18:59: Inserting new user...
16:18:59: Successfull insert, debug info:
16:18:59:  ? WebSQLResultSet {
16:18:59:    "insertId": 1,
16:18:59:    "rows": WebSQLRows {
16:18:59:      "_array": Array [],
16:18:59:      "length": 0,
16:18:59:    },
16:18:59:    "rowsAffected": 1,
16:18:59: }
16:18:59: Session set to username Sanjeev
16:18:59: Sanjeev
16:18:59: Sanjeev
```
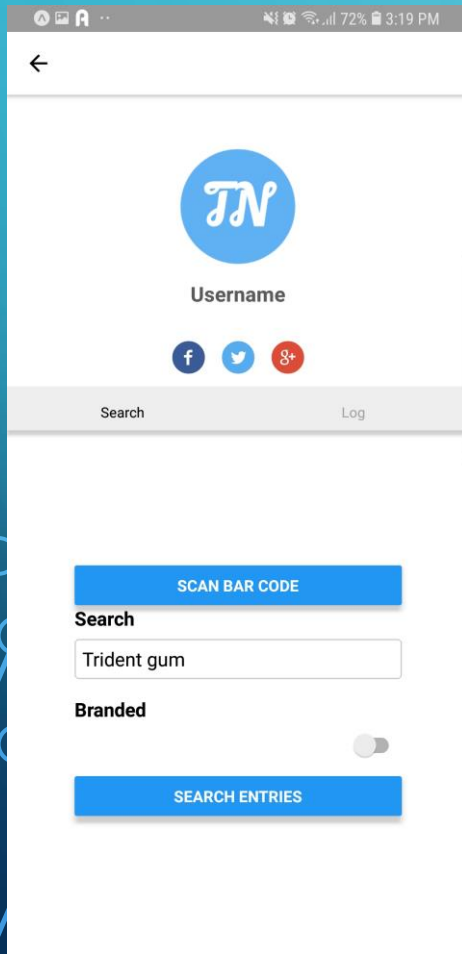
Name
Sanjeev

Weight
210

Gender
Male

Age
25

Height
66

Desired weight
180

Activity level
Active

Username
Sanjeev

Password
Sanjeev

Terms

Tap Here for terms and conditions

Sign Up

Tailored Nutrition

Username
Sanjeev

Password
sanjeev

Remember Me

Login

Sign Up

```
16:24:24: SignIn.render
16:24:55: No such user: Sanjeev
16:24:55: SignIn.render
16:25:18: Valid user!
16:25:18: Session set to username Sanjeev
16:25:18: Sanjeev
16:25:18: Sanjeev
16:25:18: userLogs.render
16:25:18: userLogs.render
16:25:18: userLogs.render
```

WHAT WORKS:

- **NutritionX API Querying –**

    A. Our search tab of the userProfile section returns a JSON file with food data:

```
15:19:00: Object {
15:19:00:    "brand_name": "Trident",
15:19:00:    "brand_name_item_name": "Trident Gum",
15:19:00:    "brand_type": 2,
15:19:00:    "food_name": "Gum",
15:19:00:    "locale": "en_US",
15:19:00:    "nf_calories": 2.5,
15:19:00:    "nix_brand_id": "51db37c9176fe9790a8996c7",
15:19:00:    "nix_item_id": "5a97a56d8a1d5ae43b897f7e",
15:19:00:    "photo": Object {
15:19:00:       "thumb": "https://d1r9wva3zcpswd.cloudfront.net/5a97a5728a1d5ae43b897f7f.jpeg",
15:19:00:    },
15:19:00:    "region": 1,
15:19:00:    "serving_qty": 1,
15:19:00:    "serving_unit": "stick",
15:19:00: }
15:19:00: What
```

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CHALLENGES OVERCAME

- **Design Related Challenges:**
  - A. Choice of database to use to store user information (Realm vs. SQLite)
  - B. Choice of nutrition API to extract nutrition information from (USDA vs. NutritionX)
  - C. UI flow: we had to learn how to solve UI choice issues quickly because of our database implementation

- **Implementation Challenges:**
  - A. Learning React Native! (Node modules, components, API's, Testing…)
  - B. Querying the API: Currently, we can search for foods using the name or UPC number. UPC number can either be entered through keyboard or scanned with the camera.

REACT NATIVE

A whole new world!

CHALLENGES YET TO OVERCOME

- **Design Related Challenges:**
  - A. User Security
  - B. Keyboard blocking text fields (did not get a chance to address)
  - C. UserLogs database design

- **Implementation Challenges:**
  - A. Manipulating the macros from NutritionX for our own use
  - B. Calculating user caloric and macro needs for user (all math related things are written, still need to be implemented)
  - C. Switching of diet plans