**Snackability 1.0**

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### Problem
- Snacks consumed by adolescent and college students are extremely unhealthy.
- USDA guidelines for healthy snacking not being applied.
- No apps available that specifically target snack and give a score.

### Solution
- Dedicate mobile application that will use the USDA guidelines for healthy snack.
- User friendly app that would provide a score based on how healthy a snack is.
- It will ask users to fill the name, size of the snack and if it is highly processed.

### Current System
- There are no available apps to specifically identify if a snack is healthy or not based on the USDA guidelines.

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### Requirements
- Support on iOS and Android devices.
- Have the option to login using Gmail and local accounts.
- Local database with snacks in FIU vending machines.
- Access to the USDA database using an API.
- Use USDA guidelines for healthy snacking to determine if a snack is healthy or not.
- Provide a snack score.
- Handle different food measurements.
- Collect metrics.

### Implementation
- React Native to build the application for iOS and Android.
- Firebase for local and Google authentication and data persistence.
- Redux used with React for complex state operation.
- API to access the USDA database.
- MySQL Workbench for local database.

### Verification
- Postman test was created to test various API endpoints.
- Testing done on iOS and Android. Emulators and phone were used.
- Manual testing to verify the different measurement conversion.
- Manual testing to verify the Snack Score.

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### System Design

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### Object Design

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### Summary
- The objective of this project was design an app that using the USDA guidelines provide a score based on how healthy a snack is.
- This project is the first release of Snackability app.
- The app is going to be tested during the summer, by the Nutrition Department at FIU.

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