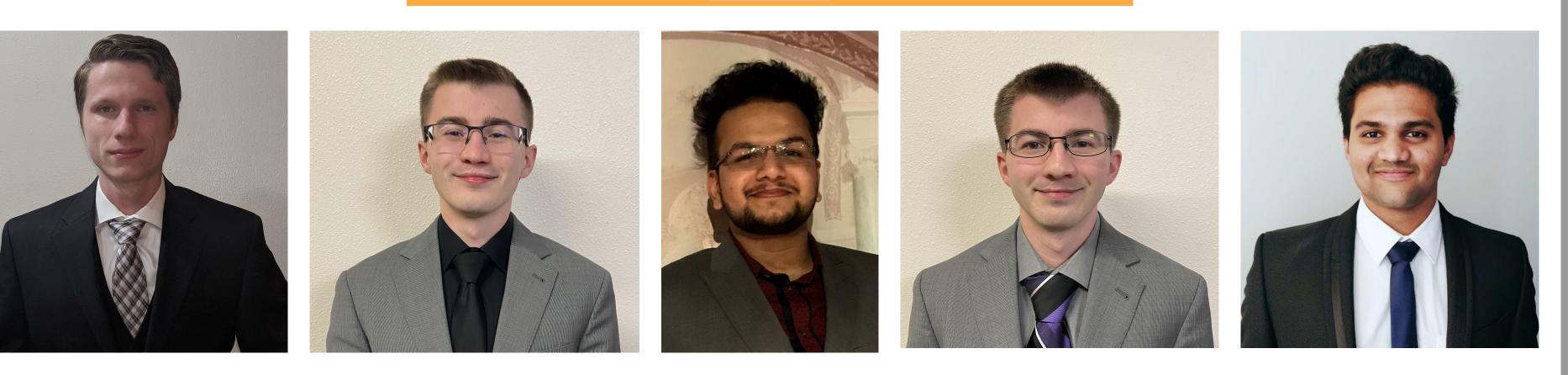
# Advisor & Client: Mat Wymore Team Site: https://sddec21-12.sd.ece.iastate.edu

Cut The Crap Project Identifier: sddec21-12 Project Name: Make Recipes Readable Again



The Team

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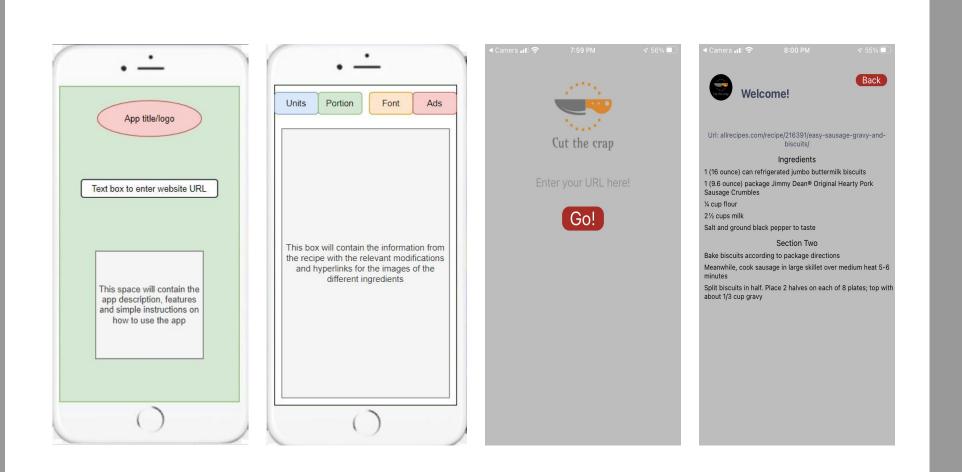
# **Problem, Solution & Users**

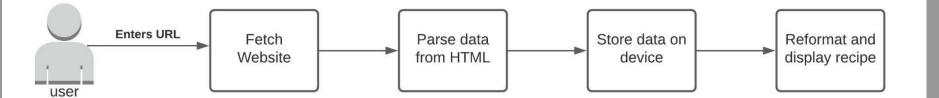
• Problem is online recipe blogs are confusing and difficult to navigate

#### **Functional Requirements**

- Capable of loading a recipe from an arbitrary URL
- Make recipe more readable by cutting off extraneous
- We decided to make a mobile app, using a web scraper, to reorganize site and make the recipe more concise
- Hope this makes cooking more enjoyable and draws more to cook
- Anyone wanting to cook with simple instructions from a blog recipe

**Concept, Design & Block Diagram Sketches** 





- information
- Add measurements to instructions
- Ability to scale recipe
- Converting units between metric and imperial

#### **Non-Functional Requirements**

- Work on mobile device
- May be platform-specific
- Interface must be user-friendly
- Recipes should load within 5s
- Maintain the source's revenue stream
- Should not require a user account
- Should not require database

#### **Engineering Constraints**

- Internet connection needed
- A new instance of the app will be loaded at each use
- The end product will only work on mobile devices
- The app will only work on english websites

#### **Operational Environment**

# Design Approach

- The main functional modules are the Web Scraper, JSON storage, and Frontend UI
- The Web Scraper saves data to the JSON storage and the Frontend accesses that data to display
- The Frontend also sends the URL to the web scraper
- Flaws in testing are a concern
  - Solved by targeted testing on major sites
- Unusable UI is a concern
  - Design with visually impaired in mind
- Cyber Security is a concern
  - Run URL through checking tool

## **Technical Details**

- Web Scraper done in JavaScript using fetch. It is limited on the number of sites and expansion is a concern.
- JSON Storage done in JavaScript, used expo-file-system library, no known limits or concerns for the project.
- Frontend UI done using React Native in Expo CLI. It is Limited on user preferences with no known concerns.

- Places with internet connection
- Used in kitchen so low contact and high ease of use

### **Relevant Standards**

- Agile development standards
- JavaScript coding standards

### Testing

- Unit Testing done is Jest
- Interface Testing using IOS/Android Emulators and React Native CLI Quickstart
- Acceptance Testing through presentations to the client
- All unit tests pass with 100% code coverage
- Interface and Acceptance tests have passed





