

CI 492

Glucose Genie

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Team Members



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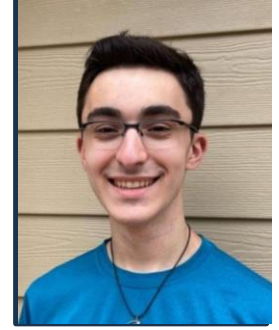
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Computer Science



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Software Engineering



Carson Ford
Computer Science



Jared Jackson
Computer Science

Stakeholders

2 Graduating Medical Students from Rowan University

- Abyson Kalladanthiyil
- Ami Patel

Presentation Overview



Project Description



Major Capabilities
to be Supported



Non-Functional
Requirements That
Influence the
Design



Term
Accomplishments



Issues Encountered



Demo



Next Steps

Description

Glucose Genie is a stand-alone mobile iOS application targeted to aid patients in **tracking important nutrients, creating weekly meal plans** through **diabetic friendly recipes** and providing **cost-friendly** ways to purchase meal ingredients to help individuals *sustain a diabetic friendly diet*.

Major Capabilities to be Supported

- Account creation.
- Usage of APIs for meal recipes and map of nearby grocery stores.
- Toggle language between English and Spanish.
- Search for diabetes-friendly recipes with nutrient details.
- Create and track weekly meal plans.
- Track daily nutrient intake (carbs, protein, fiber).
- Generate editable grocery lists with cost estimates.

Non-Functional Requirements

- Security
 - User authentication – Amazon Cognito
 - Personal user data – Amazon DynamoDB
 - Code review - GitHub
- Performance
 - Fast app launch time – Amazon DynamoDB
- Robustness
 - Version control – GitHub
- Design and Implementation
 - Modularity – Model View ViewModel (MVVM) Architecture

Accomplished This Term

- Setup XCode project
- Setup Amazon Amplify
- Implemented Features:
 - Sign Up/Login/Logout (Amazon Cognito)
 - Database Storage and Querying (Amplify GraphQL API)
 - Main Page Navigation
 - Recipe Page
 - Settings Page
 - Nutrient Tracker

Issues We Encountered

- Getting acquainted with software
 - Swift
 - AWS
 - Amplify – app dev on AWS
- Scheduling
 - Extending due dates

Project Status



Expectations: Start of Term

- **SDD**
- **Settings UI**
- **Login/out**
- **Language Settings UI** + func
- **Main Page**
- **Recipe Page UI** + Filtering + Searching

Current Status

- SDD
- Settings UI
- Login/out
- Language Settings UI
- Main Page
- Recipe Page
- ***AWS Integrations***
 - Amplify
 - Cognito - authentication
 - DynamoDB
 - API
 - GraphQL – query lang

General Trend: **On Track**

Demo



Next Steps

- Connect Recipe APIs to Recipe Display
- Recipe Saving
- Grocery List Generator
- Grocery Store Finder
- Language Settings
- Testing
- Documents
 - User Manual
 - Privacy Policy

Questions?