**GlucoGuide Must Haves, Could Haves, Shouldn't Haves**

**Must Haves (Essential Features for Basic Functionality)**

* Display simulated blood glucose readings in UK mmol/L (e.g., 4.4 to 11.1) using Nightscout API data.
* Allow users to input nutritional info (carbs) with an image-based food picker using Spoonacular API.
* Calculate insulin doses based on a 10g carbs/unit ratio provided by medical professionals.
* Include a user-friendly interface with clear text and navigation (React Navigation tabs).
* Add a disclaimer to meet ethics board requirements (e.g., "Consult a doctor").
* Set up 3 pre-configured user profiles: one with good glucose control (e.g., 4.0-7.0 mmol/L), one with alright control (e.g., 7.1-9.0 mmol/L), and one with bad control (e.g., 9.1-15.0 mmol/L) to show different advice levels.
* Ensure the app works on iOS via Expo Go on my iPhone 15 Pro.

**Could Haves (Nice-to-Have Enhancements if Time Allows)**

* Add offline capability using AsyncStorage to save glucose and food data.
* Include a history log to track past glucose readings and insulin doses in mmol/L.
* Add a feature to export data as a simple text file for users to share with doctors.
* Create a settings page to adjust insulin ratios for the 3 user profiles.
* Add a visual graph to show glucose trends over time in mmol/L.

**Shouldn't Haves (Features to Avoid for This Project)**

* Use live glucose data from real sensors (stick to simulated data to avoid ethical issues).
* Include complex AI predictions for insulin doses (too advanced for current skills).
* Add payment features or premium upgrades (keeps it zero-budget).
* Store personal user data permanently (focus on simulated, non-stored data).
* Integrate with external hardware beyond FreeStyle Libre 2 simulation.