Food Journal App - Error Debugging & Solutions Report

Error Debugging & Solutions Report

Project: Food Journal App (Expo/React Native)

Date: June 2025

Overview:

During development, several critical issues were encountered involving missing modules, component rendering problems, and database initialization failures. This report summarizes the errors identified, their root causes, and the solutions applied.

Error Summary and Solutions:

1. Module Resolution Errors

- Error:

  Unable to resolve "react-native-gesture-handler"

  Cause: Missing core dependency for React Navigation.

- Solution:

  Installed the required package using Expo:

  expo install react-native-gesture-handler

- Error:

  Unable to resolve "prop-types"

  Cause: The react-native-swipe-list-view dependency requires prop-types explicitly.

- Solution:

  Installed missing dependency:

  npm install prop-types

2. Database Initialization Errors (Expo SQLite)

- Error:

  (NOBRIDGE) ERROR Database initialization error: Cannot read property 'execAsync' of undefined

  Cause: Incorrect SQLite transaction method used.

- Solution:

  Replaced db.withTransactionAsync with db.withExclusiveTransactionAsync in database.js.

- Error:

  Database error: Cannot read property 'rows' of undefined

  Cause: Malformed response from executeSql on SELECT queries.

- Solution:

  Updated the executeSql method to normalize SELECT query results and safely access rows.

3. Component and JSX Rendering Issues

- Error:

  React.jsx: type is invalid - expected a string or function but got object.

  Cause: Imported components incorrectly or used undefined components.

- Solution:

  Verified all imports (especially Button) are from react-native:

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```
import { Button } from 'react-native';
```

Ensured all component files export valid functions or classes.

Reinstalled dependencies and cleared cache:

```
npm install

expo start -c
```

- HomeScreen Specific Error:

  Element type is invalid... Check the render method of 'HomeScreen'.

- Solution:

  Audited HomeScreen JSX for invalid component types.

  Verified all child components are correctly imported and exported.

Enhancements Made:

- Modularized database logic for safer transactions and better error handling.

- Strengthened dependency management for smoother development setup.

- Improved reliability of component rendering through strict type validation and import checks.

Conclusion:

All identified errors have been successfully resolved. The application now runs as intended with support for user authentication, image handling, journaling, and navigation.