# TEST RESULTS
# REPORT

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Task Matrix

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# Test Results Overwiew

| Test Case | Status | Notes |
| --- | --- | --- |
| User Registiration Test | Pass | Successfully registers users. |
| User Login Test | Pass | Successfully logins users |
| Recipe Details Test | Pass | Recipe details display properly. |
| Favorite Recipes Test | Fail | Users could see all saved favorites instead of only their own, indicating a failure in authentication and database communication. |

# Test Results Analysis

- Most tests passed successfully, except for the " Favorite Recipes Test" feature, which failed because users were able to see all saved favorites instead of only their own, suggesting an authentication and database access control issue.

- The " Favorite Recipes Test" feature did not function correctly; instead of showing only the logged-in user's saved favorites, it displayed all users' favorites. This indicates a failure in properly linking Firebase Authentication with the favorites retrieval query. Debugging required.

**Proposed Solutions for Failed Tests**

1. **Fix Authentication and Database Query Issue**

   o Modify the Firestore query to filter recipes based on the authenticated user's UID.

   o Update the security rules in Firebase to ensure that users can only access their own data.

   o Test the changes by logging in with different accounts and verifying that only the correct favorites appear.

2. **Improve Debugging and Error Logging**

   o Implement detailed logging for database queries to detect unauthorized data retrieval.

   o Use Firebase Emulator for local testing before deploying fixes

# Logs and Outputs

- Firebase authentication logs indicate successful user registrations.

- API logs show valid recipe data retrieval.

- Console logs confirm correct filtering, UI behavior, and favorite recipe display.

# Abstract

Todayz Meal is a web-based recipe recommendation system designed to help users find meal ideas based on available ingredients. The project integrates Firebase Authentication for user management and Spoonacular API for recipe data retrieval. The study focuses on enhancing user experience through a seamless search mechanism, filtering options, and a personalized favorites section. Testing revealed a security issue in the favorites feature, where users could access all saved recipes instead of only their own. Future improvements will focus on authentication fixes and better database query security.