TM910 : Browse Restaurant Menus (Use Case)

Actors: Visitor, Registered User, MenuMap System

Description: A user searches for restaurants by location/cuisine/name and views a restaurant's menu with item details (description, price, dietary tags).

Priority: High

Complexity: Medium

Stakeholders & Interests:

- **Users:** Want fast, accurate results and readable menus.
- **Restaurant Owners:** Want accurate, up-to-date menu visibility.

Trigger: User opens search and enters a query or uses filters.

Preconditions:

- System is available and connected to the menu database.
- At least one restaurant with menu items exists for the queried area.

Main Success Scenario:

1. User enters a search term and/or applies filters (location, cuisine, price, dietary).
2. System returns a ranked list of restaurants with basic info (name, rating, distance).
3. User selects a restaurant.
4. System displays the full menu with categories and items.

5. User expands an item to see details (description, price, tags, allergens).
6. User optionally switches categories or opens another restaurant.

Extensions / Exceptions:

- 2a. **No results:** System shows “no restaurants found” and suggests nearby areas/alternative filters.
- 4a. **Partial data:** System flags missing/uncertain data and offers “Report issue.”
- 5a. **Slow network:** System shows loading states and cached results when available.

Postconditions:

- User has viewed at least one menu; relevant views may be cached for performance.

Non‑Functional Requirements (NFRs):

- **Performance:** Search results in ≤ 2s P95; menu load in ≤ 3s P95.
- **Usability:** Clear categories; accessible labels (WCAG 2.1 AA).
- **Availability:** 99.9% monthly uptime.
- **Security:** Read‑only views do not expose sensitive data; rate limiting on search.