

Product Requirements Document

Module 2: Restaurant Discovery (Listing, Search, Filters)

Project: QuickBites – Food Ordering & Delivery Platform

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Version 1.0

1. Feature Overview

The Restaurant Discovery module enables users to browse available restaurants based on location, cuisine, ratings, preparation time, and search keywords.

2. Persona & Goals

Primary Persona – Customer

- Wants to find restaurants quickly
- Wants accurate search results
- Wants filters to refine choices
- Wants top-rated & nearby options first

Goals

- Reduce time taken to find food
- Offer relevant recommendations
- Enable powerful search + filters

3. Problem Statement

Users get overwhelmed when too many restaurants are shown without proper sorting or filtering. Without strong discovery features, conversion rates drop.

4. Feature Description

The module includes:

- Restaurant listing page
- Search bar for restaurants & dishes
- Filters (rating, cuisine, delivery time, price)
- Sorting options (recommended, top rated, fastest delivery)
- Restaurant cards (image, rating, ETA, price)
- Category-based recommendations (e.g., "Top Picks", "Trending Now")

5. User Stories

US1 – View Nearby Restaurants

As a user, I want to see restaurants near my location so I can order quickly.

US2 – Search by Name or Dish

As a user, I want to search for a restaurant or dish so I can find what I want faster.

US3 – Apply Filters

As a user, I want to filter restaurants by ratings, cuisine, price, etc., to refine my choices.

US4 – Sort Results

As a user, I want to sort by recommended, top-rated, or fastest delivery.

US5 – View Restaurant Card Details

As a user, I want to see key details like ETA, rating, cost before ordering.

6. Acceptance Criteria

AC1 – Default Listing

Given user opens the app

When restaurant listing loads

Then restaurants must be sorted by “Recommended”

AC2 – Search Function

Given user enters a restaurant/dish name

When search is executed

Then relevant results must appear with proper ranking

AC3 – Filters

Given user applies filters

When results load

Then only restaurants matching criteria must be shown

AC4 – No Results

If no restaurant matches the query

Then show “No matching restaurants found”

7. Functional Requirements

FR1: Restaurant Listing

- Show restaurants based on user’s location radius
- Display: name, rating, ETA, cost, cuisine, image

FR2: Search

- Auto-suggest restaurant names
- Support fuzzy matching
- Search by dish should show restaurants offering that dish

FR3: Filters

- Rating (4+, 3+)
- Cuisine type
- Price range
- Delivery time

FR4: Sorting

- Recommended
- Fastest delivery
- Top-rated
- Cost: Low → High

FR5: Empty State

- Show illustration + retry button

8. Non-Functional Requirements

- Listing load time < 3 seconds
- Search result time < 1.5 seconds
- 99% uptime
- Minimum 30 FPS scrolling

9. User Flow

1. User opens home page
2. Auto-loads nearby restaurants
3. User can scroll or search
4. User applies filters (optional)

5. User selects a restaurant
6. User views the menu

10. Assumptions

- User location permissions granted
- Restaurants operate during displayed hours
- Data is updated via admin panel

11. Dependencies

- Location services
- Restaurant data management (Admin Panel)
- Search engine API

12. Success Metrics

- Time to first order < 50 seconds
- Improvement in search-to-order conversion
- Higher filter usage
- Reduced bounce rate on listing screen

13. Risks & Mitigations

Risk	Mitigation
Too many restaurants → slow load	Pagination & lazy loading
Poor search relevance	Improve ranking algorithm
Incorrect ETA	Use real-time traffic + partner movement data

14. Out of Scope

- Advanced AI recommendations
- Personalized homepage
- Sponsored ads section