

# MarketLane – Agile Development

## Business Requirements

### 1.1 Business Problem

Fairfield locals need a fast, simple way to discover nearby businesses, explore store details, and stay connected with the local community. Traditional methods are confusing and scattered across multiple platforms.

### 1.2 Features That Solve This Problem

- A searchable local business directory.
- Category-based browsing with simple filters.
- Store pages with key information.
- Links to maps for directions.
- Favorites for quick access.
- Basic admin interface for uploading business data.

### 1.3 Stakeholders

- Local residents
- Business owners
- Community organizations
- App administrators
- Fairfield visitors

### 1.4 Scope

The system will provide core marketplace features.

Advanced integrations, automated promotions, or payment features **can potentially be added if possible.**

### 1.5 Budget / Technical Constraints

- Uses MySQL for the business directory.
- No complex backend services required; integrations **can potentially be added if possible.**
- Cloud hosting (such as AWS) is planned but additional infrastructure **can potentially be added if possible.**

# Functional Requirements

## 2.1 Business Rules

- Every business entry must include at least a name, category, and contact information.
- Admin uploads must follow a simple input format for consistency.
- Users should be able to search and filter without an account.

## 2.2 Business Process

1. User opens the app.
2. User browses categories or searches by keyword.
3. User views store details.
4. User optionally saves a store as a favorite.
5. Admin updates store data when needed.

## 2.3 Interactions

- Users interact with the directory, store pages, and favorites.
- Admin interacts with the upload form.
- Map links send users to an external maps provider.

## 2.4 States

- Default state: Directory visible.
- Search state: Results filtered by keyword or category.
- Detail state: Store page open.
- Favorite state: User's saved stores.
- Admin state: Upload form active.

## 2.5 Domain Structure

- Business - name, category, hours, contact, description, photos, map link
- User - local device storing favorites
- Admin - form to upload/update dataset

# Non-Functional Requirements

## 3.1 Performance

- Search results should load quickly.
- Store pages should open with minimal delay.

### 3.2 Scalability

- The system supports small-to-medium local data.
- Expansion to large datasets **can potentially be added if possible.**

### 3.3 Reliability

- Directory data should remain accessible even during updates.
- Basic offline caching **can potentially be added if possible.**

### 3.4 Robustness

- The app should handle missing or incomplete store data.
- Error recovery features **can potentially be added if possible.**

## Main Goals of the System

- Provide a simple, fast marketplace app for Fairfield.
- Help locals discover businesses and connect with their community.
- Make essential store information easy to access.
- Enable business owners to update their information using a basic admin upload form.
- Offer a clean, lightweight experience without unnecessary complexity, while allowing future features to be added if possible.