



PICK MY DISH

Your Personal Cooking Companion

- Time-aware
- Mood-based
- Ingredient-aware

Intelligent Recipe Recommendation System

Team Members:

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The Problem & Our Solution



THE CHALLENGE



Decision Fatigue



Limited Resources



Time Constraints



No Personalization



OUR SOLUTION



AI Recommendations



Smart Filtering

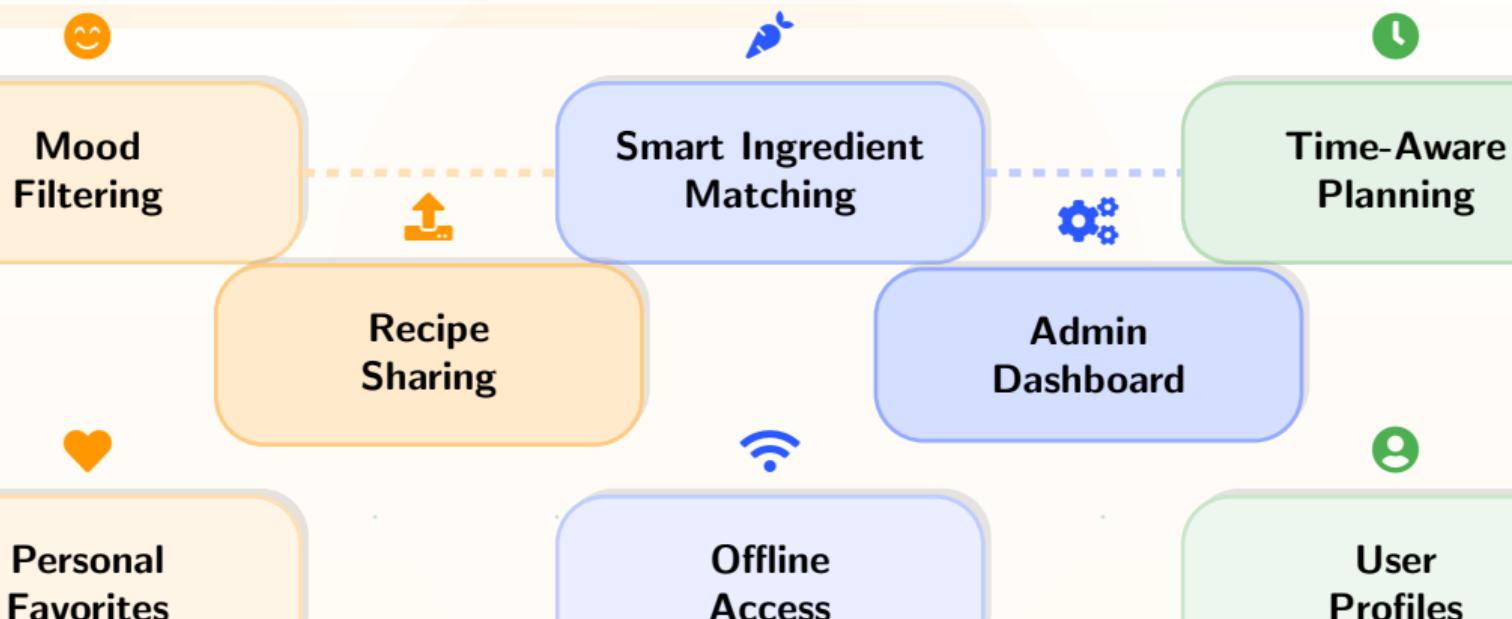


Quick Planning



Mood-Aware

Intelligent Features for Seamless Cooking



Modern Stack for Scalable Solutions

 Frontend

 Backend

 DevOps & Tools

 Flutter

 Node.js

 Git/GitHub

 Provider State

 Express.js

 Jenkins

 Material UI

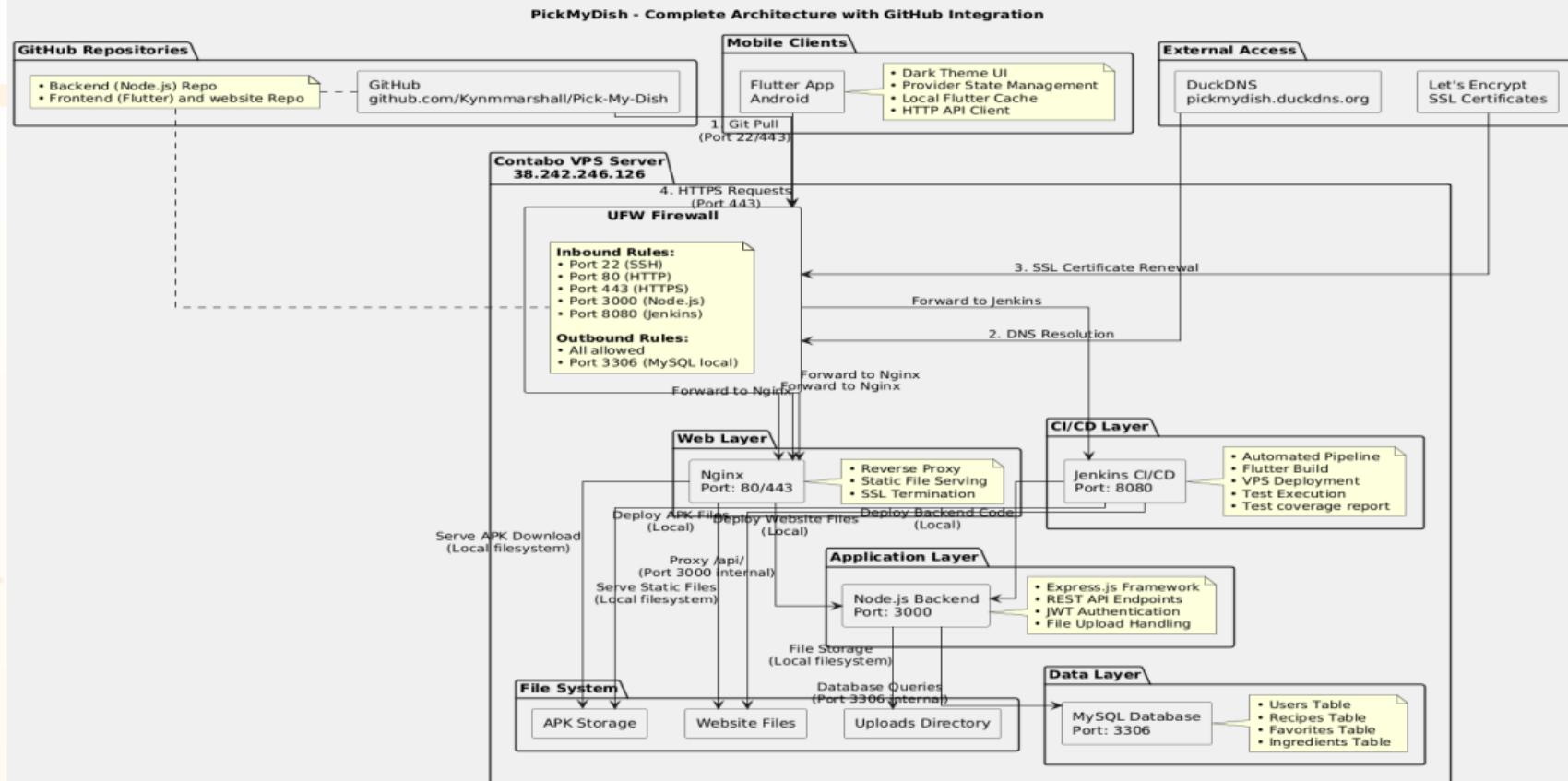
 MySQL

 Nginx

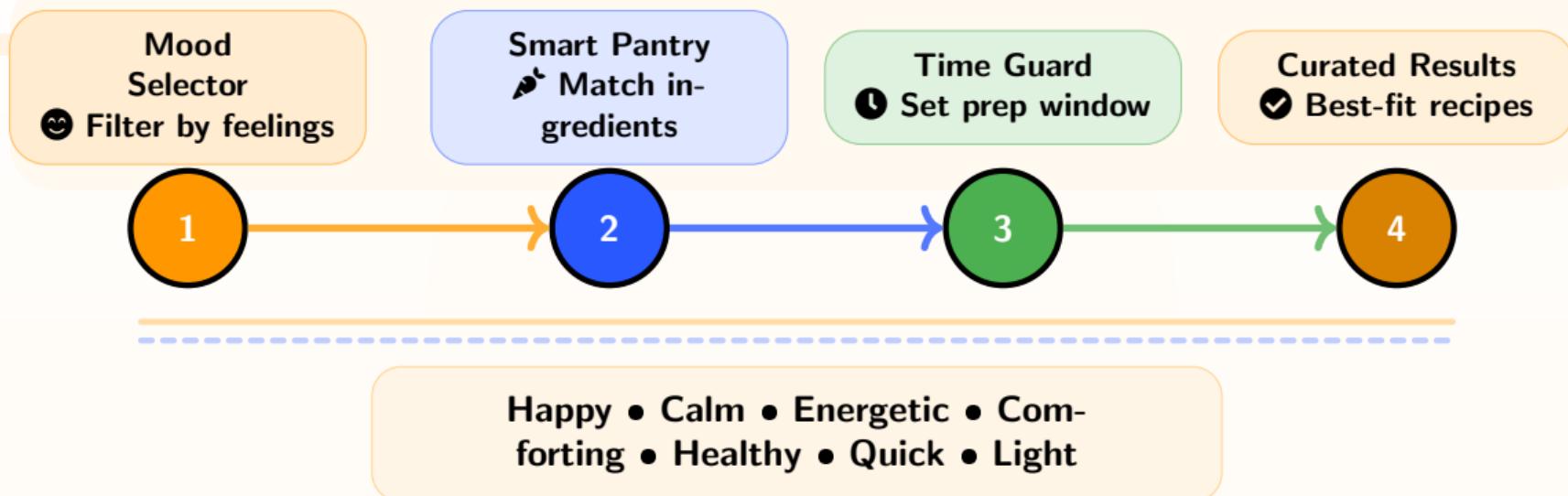
 JWT + Bcrypt

 Contabo VPS

System Architecture



User Flow: Mood-Based Recipe Discovery [INNOVATIONS]



Why it impresses: Adaptive filtering blends mood, pantry items, and prep time to present a shortlist that feels tailored. Real-time scoring ranks recipes by relevance, freshness, and dietary fit.

Design Patterns

 **Provider** Screens rebuild from app state

 **Repository** APIs + cache behind one interface

 **Factory** Creates recipe/user models consistently

 **Singleton** One config/auth client shared

 **Observer**
Mood/ingredient changes trigger UI

SOLID in Practice

S — Single Responsibility

UI shows, repo fetches, service computes

O — Open/Closed Add filters without changing base screens

L — Liskov Substitution

Swap any recipe source via the interface

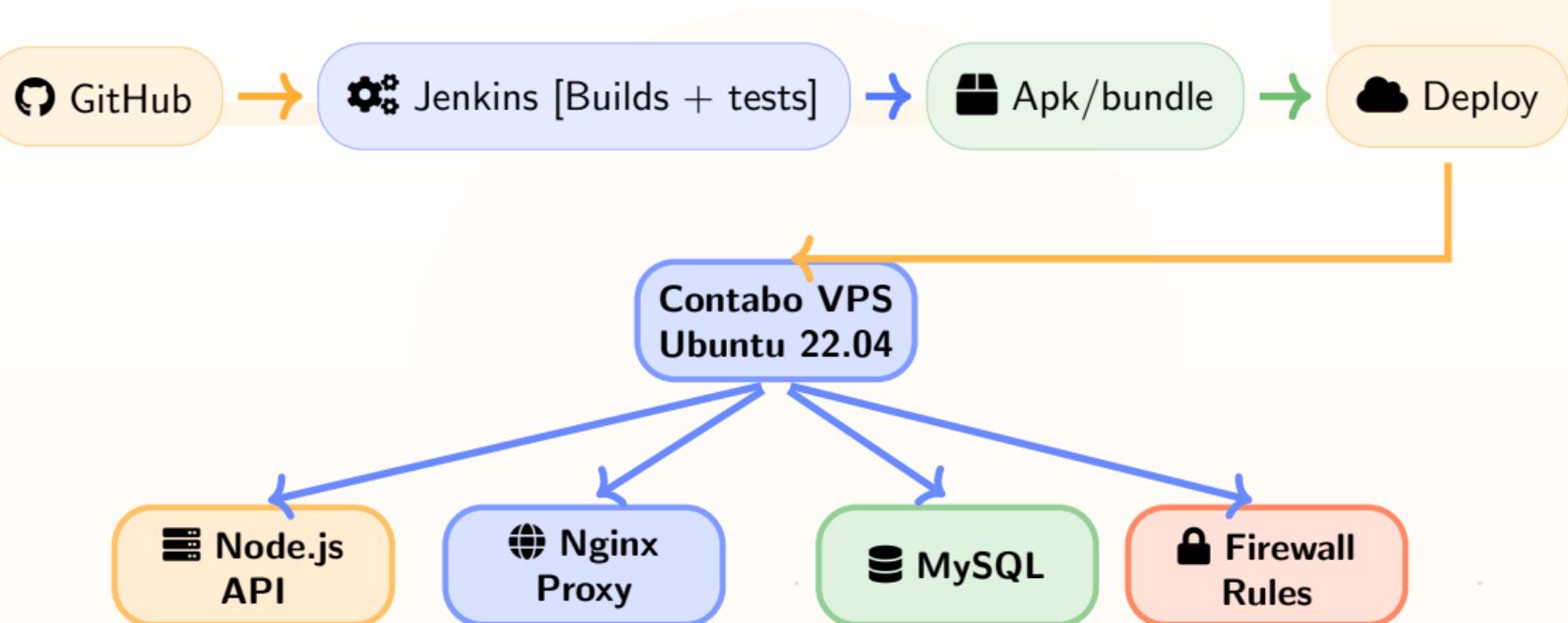
I — Interface Segregation

Separate auth, recipe, storage

D — Dependency Inversion

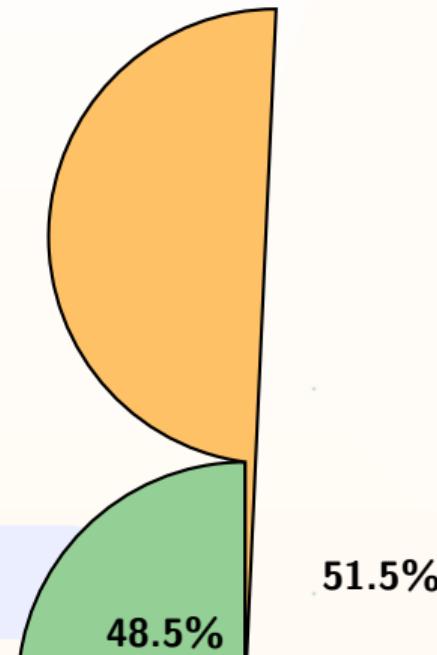
UI leans on abstractions; inject repos

Deployment & DevOps Pipeline (SUMMARY)



⌚ CI = 5 minutes — ⚡ Zero-downtime
proxy swaps — ↗ Monitored uptime 99.8%

Test Coverage



Performance

Metric	Target
Recipe Load Time	≤ 2s
API Response	≤ 500ms
Database Query	≤ 300ms
Uptime	99.8%

Achievements

- Fully functional cross-platform app
- Secure authentication system
- Offline-first architecture
- Fast, responsive UI
- Automated deployment
- Comprehensive testing

Future Enhancements

- AI-powered recommendations
- Multi-language support
- Advanced analytics
- Smart notifications
- Nutrition tracking
- Social sharing

Thank You!

Questions?

