20-Week Food Delivery Platform Development Plan

Project Timeline: 5 Months (20 Weeks)

Pre-Development Phase (Week 1)

Sprint 0: Project Setup and Planning

- Project repository setup
- Development environment configuration
- Design system setup (Figma/Adobe XD)
- Team onboarding
- Initial backlog creation
- Define MVP features
- Architecture decisions documentation

UI/UX Development Phase (Weeks 2-8)

Sprint 1 (Weeks 2-3): Core UI Foundation

Theme: Basic Structure and Authentication

Week 2

- Set up Next.js project structure
- Implement design system with Tailwind CSS
- Create basic layout components
- Develop header and footer components
- Set up routing structure

Week 3

- Build authentication UI:
  - Login page
  - Registration page
  - Password recovery flow
  - Email verification UI
- Create reusable form components
- Implement responsive design system

Sprint Review & Retrospective

- Demo of authentication flows
- Review responsive design implementation
- Team feedback on component architecture

Sprint 2 (Weeks 4-5): Restaurant Listing and Search

Theme: Restaurant Discovery

Week 4

- Implement restaurant listing page:
    - Restaurant card components
    - Grid/List view toggle
    - Sorting functionality
    - Basic filtering UI

Week 5

- Build search functionality:
    - Search bar component
    - Advanced filters
    - Location-based search UI
    - Categories and cuisine types
- Implement skeleton loading states
- Add infinite scroll/pagination

Sprint Review & Retrospective

- Demo of restaurant discovery features
- Performance review of list rendering
- UX feedback collection

Sprint 3 (Weeks 6-7): Restaurant Details and Menu

Theme: Menu and Ordering Interface

Week 6

- Create restaurant details page:
    - Restaurant header with key info
    - Photo gallery
    - Reviews and ratings section
    - Operating hours display
    - Location map integration

- Implement menu interface:
    - Menu categories
    - Item cards with images
    - Customization options
    - Special instructions
    - Add to cart functionality

Sprint Review & Retrospective

- Demo of restaurant details and menu
- Review of user interaction patterns
- Performance optimization discussion

Sprint 4 (Week 8): Cart and Checkout UI

Theme: Order Processing

- Build shopping cart:
    - Cart sidebar/modal
    - Item quantity adjustment
    - Special instructions
    - Price calculation
- Implement checkout flow:
    - Delivery address selection
    - Payment method selection
    - Order summary
    - Confirmation page

Sprint Review & Retrospective

- Full demo of ordering flow
- UX testing results review
- Performance metrics analysis

Backend Integration Phase (Weeks 9-14)

Sprint 5 (Weeks 9-10): API Integration

Theme: Data Integration

Week 9

- Implement API services:
    - Authentication service

- ○ Restaurant service
  - ○ Menu service
- Error handling
- Loading states

Week 10

- Integrate real data:
  - ○ User profile
  - ○ Restaurant listings
  - ○ Menu items
- Implement data caching
- Add error boundaries

Sprint 6 (Weeks 11-12): Order Management

Theme: Order Processing Backend

Week 11

- Order creation flow
- Payment integration
- Order tracking UI
- Real-time updates

Week 12

- Order history
- Order details page
- Reorder functionality
- Rating and review system

Sprint 7 (Weeks 13-14): User Features

Theme: User Experience Enhancement

Week 13

- User profile management
- Address management
- Payment methods management
- Favorites and preferences

Week 14

- Notifications system
- Order tracking system

- Social sharing features
- User settings

Enhancement Phase (Weeks 15-18)

Sprint 8 (Weeks 15-16): Performance Optimization

Theme: Performance and UX

Week 15

- Image optimization
- Code splitting
- Performance monitoring
- SEO optimization

Week 16

- Accessibility improvements
- Mobile optimization
- Loading performance
- Cache optimization

Sprint 9 (Weeks 17-18): Advanced Features

Theme: Feature Enhancement

Week 17

- Loyalty program UI
- Special offers system
- Restaurant analytics dashboard
- Advanced search features

Week 18

- Multi-language support
- Dark mode
- Progressive Web App features
- Social features

Final Phase (Weeks 19-20)

Sprint 10 (Weeks 19-20): Testing and Launch

Theme: Quality Assurance and Deployment

Week 19

- End-to-end testing
- Performance testing
- Security testing
- Bug fixing

Week 20

- Final UI polish
- Documentation
- Deployment preparation
- Launch

Additional Details for Each Sprint

Daily Activities

- Daily standup meetings (15 minutes)
- Code reviews
- Documentation updates
- Testing and QA

Sprint Ceremonies

- Sprint Planning (First day of sprint)
- Daily Standups (15 minutes daily)
- Sprint Review (Last day of sprint)
- Sprint Retrospective (After sprint review)
- Backlog Grooming (Mid-sprint)

Key Deliverables per Sprint

- Working software increment
- Updated documentation
- Test coverage reports
- Performance metrics
- Sprint review presentation

Key Performance Indicators (KPIs)

- Sprint velocity
- Code quality metrics

- Test coverage
- Bug resolution rate
- User satisfaction metrics

Risk Management

- Weekly risk assessment
- Mitigation strategy updates
- Technical debt tracking
- Dependencies management