improvements and maintenance for your FoodLens AI application:

- Performance Improvements:

```
// Add image optimization
- Add image compression before upload
- Implement lazy loading for images
- Add caching for API responses
```

- Error Handling:

```
// Add better error boundaries and user feedback
- Add toast notifications for errors
- Implement retry mechanisms for failed API calls
- Add better validation for image uploads
```

- Accessibility:

```
// Improve accessibility features
- Add ARIA labels
- Improve keyboard navigation
- Add screen reader support
- Add high contrast mode
```

- Testing:

```
// Add comprehensive testing
- Unit tests for components
- Integration tests for API calls
- End-to-end testing
- Performance testing
```
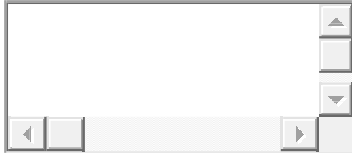
- Security:

```
// Enhance security measures
- Add rate limiting
- Implement better input sanitization
- Add CSRF protection
- Improve authentication flows
```

- Documentation:

```
// Improve documentation
- Add JSDoc comments
- Create API documentation
- Add setup instructions
- Create user guides
```

- Code Organization:

```
// Better code structure
- Implement proper TypeScript types
- Add proper state management (e.g., Redux/Zustand)
- Create reusable hooks
- Better component composition
```
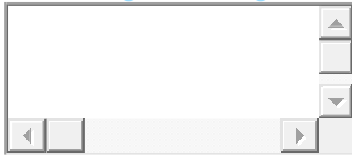
- Features:

```
// Additional features
- Add offline support
- Implement PWA capabilities
- Add export functionality for analysis history
- Add user preferences
```

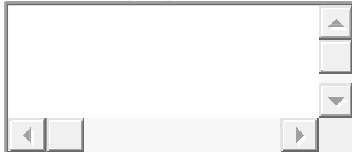- Monitoring:

```
// Add monitoring and analytics
- Error tracking (e.g., Sentry)
- Performance monitoring
- User analytics
- API usage tracking
```

- CI/CD:

```
// Improve deployment process
- Add automated testing
- Add automated deployments
- Add version control
- Add staging environment
```

Would you like me to elaborate on any of these areas?