Frontend unit testing using jest

```
import { render, screen } from '@testing-library/react-native';
 import React from 'react';
import { Text, View } from 'react-native';
// Example component to test
const ExampleComponent = () => (
  <View>
    KText>Hello, Testing!K/Text>
  </View>
 );
describe('Example Component', () => {
   it('renders correctly', () => {
    render((ExampleComponent />):
    const textElement = screen.getByText('Hello, Testing!');
    expect(textElement).toBeTruthy();
  >);
 >);
```

```
jest.setTimeout(60000); // 60 seconds
      describe('Example API Test', () => {
 11 |
        let mongoServer: MongoMemoryServer | null = null;
        beforefill(async () => {
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          try {
           // Set up MongoDB Memory Server for testing
           mongoServer = await MongoMemoryServer.create();
           const mongoUri = mongoServer.getUri();
           await mongoose.connect(mongoUri);
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           console.log('Successfully connected to in-memory MongoDB instance');
          } catch (error) {
           console.error('Failed to start MongoDB Memory Server:', error);
           // Don't throw the error here, we'll handle it gracefully
        :
        afterfill(async () => {
          try {
           await mongoose.disconnect();
           if (mongoServer) {
             await mongoServer.stop();
          } catch (error) {
           console.error('Error during cleanup:', error);
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        :
        it('should return 200 OK for GET /', async () => {
          // Skip test if MongoDB failed to initialize
          if (!mongoServer) {
           console.warn('Skipping test because MongoDB Memory Server failed to initia
           return;
     Successfully connected to in-memory MongoDB instance
        at src/__tests__/example.test.ts:20:15
 rc/_tests_/example.test.ts (7.076 s)
  Example API Test
     √ should return 200 OK for GET / (4 ms)
Test Suites: 1 passed, 1 total
                 1 passed, 1 total
ests:
Snapshots:
                 0 total
                 7.6 s, estimated 22 s
Time:
Ran all test suites.
```