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FRAME_MDL_FRONTEND: Testing Guide for external-interface.ts
Folder Structure
Based on your project layout:
- Place tests in a top-level __tests__/ folder.
- Test file path: FRAME_MDL_FRONTEND/__tests__/external-interface.test.ts
Dependencies
Install testing dependencies:
npm install --save-dev jest ts-jest @testing-library/react @testing-library/jest-dom @testing-library/user-event
jest-environment-jsdom
Optional (if CSS or asset mocks are needed):
npm install --save-dev identity-obj-proxy jest-transform-stub
Jest Config (jest.config.js)
module.exports = {
 testEnvironment: 'jsdom',
 preset: 'ts-jest',
 moduleNameMapper: {
  '\.(css|less|scss|sass)$': 'identity-obj-proxy'
 },
```

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transform: {
  '^.+\.(ts|tsx)$': 'ts-jest',
 },
 setupFilesAfterEnv: ['@testing-library/jest-dom/extend-expect'],
 collectCoverage: true,
 collectCoverageFrom: ['axios/external-interface.ts']
};
Script in package.json
"scripts": {
 "test": "jest",
 "test:coverage": "jest --coverage"
}
How to Run Tests
npm run test
npm run test:coverage
File to Extract
Extract the provided ZIP file to create:
FRAME_MDL_FRONTEND/
 __tests__/
  external-interface.test.ts
```

What the Tests Cover

What the Tools Gover
All Avias methods in avternal interface to
- All Axios methods in external-interface.ts
- Axios calls mocked using jest.mock('axios')
- Ensures headers like Authorization, x-selected-role, etc., are set
- Validates returned data structure
Debugging Tips
- If tests fail with TypeError: Cannot read properties of null (reading 'auth'), check:
- LocalStorage mocking block in beforeEach
- Structure of the mocked auth payload
- If Axios methods not called:
- Ensure mockedAxios.create.mockReturnThis() is called before test
- Recheck that the API call is awaited in the test
- If Jest doesn't find tests:
- Ensure external-interface.test.ts is insidetests/
- Ensure test file ends with .test.ts
Suggested Next Steps
- Add MSW for full E2E mocking
- Expand coverage to reducers and UI components
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- Use test coverage reports to drive additional test writing

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