Debugging Guide: Next.js + Express Errors

PART 1: Fixing 'Invalid Host Header' in Next.js

This error happens when you're accessing your frontend via an external URL.
Fix it by doing the following:

1. Modify `next.config.js`:
```
module.exports = {
  devServer: { allowedHosts: 'all' }
}
```

2. Update `package.json`:
```
"scripts": {
  "dev": "next dev -H 0.0.0.0"
}
```

3. Optional next.config:
```
const nextConfig = {
  reactStrictMode: true,
  webpackDevMiddleware: (config) => {
    config.watchOptions = {
      poll: 1000,
      aggregateTimeout: 300,
    };
    return config;
  },
};
```

PART 2: Debugging `useGetExamsQuery` Errors

1. Check if `examApiSlice.js` is correct and exports the hook.
2. Confirm the import path in the component:
```
import { useGetExamsQuery } from '../slices/examApiSlice';
```

3. Verify store.js contains:
```
reducer: {
  auth: authSlice,
  [apiSlice.reducerPath]: apiSlice.reducer
}
```

4. Wrap <Provider> in _app.js or index.js with the store.

5. Clear build cache:
```
rm -rf node_modules .next .vite
npm install
```

6. Check backend endpoint via Postman or browser:
```
http://localhost:5000/api/exams
```

7. Match API base URL in `apiSlice.js`:
```
baseQuery: fetchBaseQuery({ baseUrl: 'http://localhost:5000/api' })
```

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Debugging Cheat Sheet

```
| Issue              | Ask Yourself                |
|--------------------|-----------------------------|
| Hook is undefined  | Is it exported and imported properly? |
| Hook returns error | Is backend reachable? Correct baseURL? |
| Invalid Host Header | Is dev server accepting external host? |
| Page crashes       | Check browser console logs.          |
```

Commands:
- Clear cache: rm -rf node_modules .next .vite
- Fix host header: devServer.allowedHosts = 'all'
- Enable external host: "dev": "next dev -H 0.0.0.0"