# **Appendix 1 - Version 1.3 \_12/12/2023**

The following sections of code are taken from the source code that was amended so as to run the proof of concept. Each of the sections are delineated by a **~~~~~~** and each section of source code have interlaced screen shots from the code that was ran and committed to my GitHub repository.

# **package-lock.json**

The package-lock.json file is a JSON (JavaScript Object Notation) file that is automatically generated when you use npm (Node Package Manager) to install packages in your project. It serves as a record of the exact versions of the dependencies that were installed, along with their sub-dependencies, ensuring that the same versions are installed consistently across different environments.

**//INSIDE OF THE SCRIPT**

{

"name": "iota-if-certify",

"version": "0.1.0",

"lockfileVersion": 3,

"requires": true,

"packages": {

"": {

"name": "iota-if-certify",

"version": "0.1.0",

"license": "MIT",

"dependencies": {

"@iota/identity-wasm": "rc",

"@iota/sdk-wasm": "latest"

},

"devDependencies": {

"typescript": "5.2.2"

}

},

"node\_modules/@iota/identity-wasm": {

"version": "1.0.0-rc.1",

"resolved": "https://registry.npmjs.org/@iota/identity-wasm/-/identity-wasm-1.0.0-rc.1.tgz",

"integrity": "sha512-ythVcShBWybNapFJpuQv7NPCIYJmWX8h0Sf4qGm+bdKYMiIgPiU61FA3HPP1iMSswIE8Gwu1jUv0kZzwqSOdHA==",

"dependencies": {

"@noble/ed25519": "^1.7.3",

"@types/node-fetch": "^2.6.2",

"node-fetch": "^2.6.7"

},

"engines": {

"node": ">=16"

},

"peerDependencies": {

"@iota/sdk-wasm": "^1.0.4"

}

},

"node\_modules/@iota/sdk-wasm": {

"version": "1.1.1",

"resolved": "https://registry.npmjs.org/@iota/sdk-wasm/-/sdk-wasm-1.1.1.tgz",

"integrity": "sha512-PoGo4SaQA20oY1hBvNPl10yaWoGh786LklVwKLfGiv/Hw86+bhuHOdNqP4VX1eNa2HmCiP5tPgkEtQj8WvGxIQ==",

"dependencies": {

"class-transformer": "^0.5.1",

"node-fetch": "^2.6.7",

"qs": "^6.9.7",

"reflect-metadata": "^0.1.13",

"semver": "^7.5.2",

"text-encoding": "^0.7.0"

},

"engines": {

"node": ">=16"

},

"optionalDependencies": {

"fsevents": "^2.3.2"

}

},

"node\_modules/@noble/ed25519": {

"version": "1.7.3",

"resolved": "https://registry.npmjs.org/@noble/ed25519/-/ed25519-1.7.3.tgz",

"integrity": "sha512-iR8GBkDt0Q3GyaVcIu7mSsVIqnFbkbRzGLWlvhwunacoLwt4J3swfKhfaM6rN6WY+TBGoYT1GtT1mIh2/jGbRQ==",

"funding": [

{

"type": "individual",

"url": "https://paulmillr.com/funding/"

}

]

},

"node\_modules/@types/node": {

"version": "20.8.7",

"resolved": "https://registry.npmjs.org/@types/node/-/node-20.8.7.tgz",

"integrity": "sha512-21TKHHh3eUHIi2MloeptJWALuCu5H7HQTdTrWIFReA8ad+aggoX+lRes3ex7/FtpC+sVUpFMQ+QTfYr74mruiQ==",

"dependencies": {

"undici-types": "~5.25.1"

}

},

"node\_modules/@types/node-fetch": {

"version": "2.6.7",

"resolved": "https://registry.npmjs.org/@types/node-fetch/-/node-fetch-2.6.7.tgz",

"integrity": "sha512-lX17GZVpJ/fuCjguZ5b3TjEbSENxmEk1B2z02yoXSK9WMEWRivhdSY73wWMn6bpcCDAOh6qAdktpKHIlkDk2lg==",

"dependencies": {

"@types/node": "\*",

"form-data": "^4.0.0"

}

},

"node\_modules/asynckit": {

"version": "0.4.0",

"resolved": "https://registry.npmjs.org/asynckit/-/asynckit-0.4.0.tgz",

"integrity": "sha512-Oei9OH4tRh0YqU3GxhX79dM/mwVgvbZJaSNaRk+bshkj0S5cfHcgYakreBjrHwatXKbz+IoIdYLxrKim2MjW0Q=="

},

"node\_modules/call-bind": {

"version": "1.0.2",

"resolved": "https://registry.npmjs.org/call-bind/-/call-bind-1.0.2.tgz",

"integrity": "sha512-7O+FbCihrB5WGbFYesctwmTKae6rOiIzmz1icreWJ+0aA7LJfuqhEso2T9ncpcFtzMQtzXf2QGGueWJGTYsqrA==",

"dependencies": {

"function-bind": "^1.1.1",

"get-intrinsic": "^1.0.2"

},

"funding": {

"url": "https://github.com/sponsors/ljharb"

}

},

"node\_modules/class-transformer": {

"version": "0.5.1",

"resolved": "https://registry.npmjs.org/class-transformer/-/class-transformer-0.5.1.tgz",

"integrity": "sha512-SQa1Ws6hUbfC98vKGxZH3KFY0Y1lm5Zm0SY8XX9zbK7FJCyVEac3ATW0RIpwzW+oOfmHE5PMPufDG9hCfoEOMw=="

},

"node\_modules/combined-stream": {

"version": "1.0.8",

"resolved": "https://registry.npmjs.org/combined-stream/-/combined-stream-1.0.8.tgz",

"integrity": "sha512-FQN4MRfuJeHf7cBbBMJFXhKSDq+2kAArBlmRBvcvFE5BB1HZKXtSFASDhdlz9zOYwxh8lDdnvmMOe/+5cdoEdg==",

"dependencies": {

"delayed-stream": "~1.0.0"

},

"engines": {

"node": ">= 0.8"

}

},

"node\_modules/delayed-stream": {

"version": "1.0.0",

"resolved": "https://registry.npmjs.org/delayed-stream/-/delayed-stream-1.0.0.tgz",

"integrity": "sha512-ZySD7Nf91aLB0RxL4KGrKHBXl7Eds1DAmEdcoVawXnLD7SDhpNgtuII2aAkg7a7QS41jxPSZ17p4VdGnMHk3MQ==",

"engines": {

"node": ">=0.4.0"

}

},

"node\_modules/form-data": {

"version": "4.0.0",

"resolved": "https://registry.npmjs.org/form-data/-/form-data-4.0.0.tgz",

"integrity": "sha512-ETEklSGi5t0QMZuiXoA/Q6vcnxcLQP5vdugSpuAyi6SVGi2clPPp+xgEhuMaHC+zGgn31Kd235W35f7Hykkaww==",

"dependencies": {

"asynckit": "^0.4.0",

"combined-stream": "^1.0.8",

"mime-types": "^2.1.12"

},

"engines": {

"node": ">= 6"

}

},

"node\_modules/fsevents": {

"version": "2.3.3",

"resolved": "https://registry.npmjs.org/fsevents/-/fsevents-2.3.3.tgz",

"integrity": "sha512-5xoDfX+fL7faATnagmWPpbFtwh/R77WmMMqqHGS65C3vvB0YHrgF+B1YmZ3441tMj5n63k0212XNoJwzlhffQw==",

"hasInstallScript": true,

"optional": true,

"os": [

"darwin"

],

"engines": {

"node": "^8.16.0 || ^10.6.0 || >=11.0.0"

}

},

"node\_modules/function-bind": {

"version": "1.1.2",

"resolved": "https://registry.npmjs.org/function-bind/-/function-bind-1.1.2.tgz",

"integrity": "sha512-7XHNxH7qX9xG5mIwxkhumTox/MIRNcOgDrxWsMt2pAr23WHp6MrRlN7FBSFpCpr+oVO0F744iUgR82nJMfG2SA==",

"funding": {

"url": "https://github.com/sponsors/ljharb"

}

},

"node\_modules/get-intrinsic": {

"version": "1.2.1",

"resolved": "https://registry.npmjs.org/get-intrinsic/-/get-intrinsic-1.2.1.tgz",

"integrity": "sha512-2DcsyfABl+gVHEfCOaTrWgyt+tb6MSEGmKq+kI5HwLbIYgjgmMcV8KQ41uaKz1xxUcn9tJtgFbQUEVcEbd0FYw==",

"dependencies": {

"function-bind": "^1.1.1",

"has": "^1.0.3",

"has-proto": "^1.0.1",

"has-symbols": "^1.0.3"

},

"funding": {

"url": "https://github.com/sponsors/ljharb"

}

},

"node\_modules/has": {

"version": "1.0.4",

"resolved": "https://registry.npmjs.org/has/-/has-1.0.4.tgz",

"integrity": "sha512-qdSAmqLF6209RFj4VVItywPMbm3vWylknmB3nvNiUIs72xAimcM8nVYxYr7ncvZq5qzk9MKIZR8ijqD/1QuYjQ==",

"engines": {

"node": ">= 0.4.0"

}

},

"node\_modules/has-proto": {

"version": "1.0.1",

"resolved": "https://registry.npmjs.org/has-proto/-/has-proto-1.0.1.tgz",

"integrity": "sha512-7qE+iP+O+bgF9clE5+UoBFzE65mlBiVj3tKCrlNQ0Ogwm0BjpT/gK4SlLYDMybDh5I3TCTKnPPa0oMG7JDYrhg==",

"engines": {

"node": ">= 0.4"

},

"funding": {

"url": "https://github.com/sponsors/ljharb"

}

},

"node\_modules/has-symbols": {

"version": "1.0.3",

"resolved": "https://registry.npmjs.org/has-symbols/-/has-symbols-1.0.3.tgz",

"integrity": "sha512-l3LCuF6MgDNwTDKkdYGEihYjt5pRPbEg46rtlmnSPlUbgmB8LOIrKJbYYFBSbnPaJexMKtiPO8hmeRjRz2Td+A==",

"engines": {

"node": ">= 0.4"

},

"funding": {

"url": "https://github.com/sponsors/ljharb"

}

},

"node\_modules/lru-cache": {

"version": "6.0.0",

"resolved": "https://registry.npmjs.org/lru-cache/-/lru-cache-6.0.0.tgz",

"integrity": "sha512-Jo6dJ04CmSjuznwJSS3pUeWmd/H0ffTlkXXgwZi+eq1UCmqQwCh+eLsYOYCwY991i2Fah4h1BEMCx4qThGbsiA==",

"dependencies": {

"yallist": "^4.0.0"

},

"engines": {

"node": ">=10"

}

},

"node\_modules/mime-db": {

"version": "1.52.0",

"resolved": "https://registry.npmjs.org/mime-db/-/mime-db-1.52.0.tgz",

"integrity": "sha512-sPU4uV7dYlvtWJxwwxHD0PuihVNiE7TyAbQ5SWxDCB9mUYvOgroQOwYQQOKPJ8CIbE+1ETVlOoK1UC2nU3gYvg==",

"engines": {

"node": ">= 0.6"

}

},

"node\_modules/mime-types": {

"version": "2.1.35",

"resolved": "https://registry.npmjs.org/mime-types/-/mime-types-2.1.35.tgz",

"integrity": "sha512-ZDY+bPm5zTTF+YpCrAU9nK0UgICYPT0QtT1NZWFv4s++TNkcgVaT0g6+4R2uI4MjQjzysHB1zxuWL50hzaeXiw==",

"dependencies": {

"mime-db": "1.52.0"

},

"engines": {

"node": ">= 0.6"

}

},

"node\_modules/node-fetch": {

"version": "2.7.0",

"resolved": "https://registry.npmjs.org/node-fetch/-/node-fetch-2.7.0.tgz",

"integrity": "sha512-c4FRfUm/dbcWZ7U+1Wq0AwCyFL+3nt2bEw05wfxSz+DWpWsitgmSgYmy2dQdWyKC1694ELPqMs/YzUSNozLt8A==",

"dependencies": {

"whatwg-url": "^5.0.0"

},

"engines": {

"node": "4.x || >=6.0.0"

},

"peerDependencies": {

"encoding": "^0.1.0"

},

"peerDependenciesMeta": {

"encoding": {

"optional": true

}

}

},

"node\_modules/object-inspect": {

"version": "1.13.0",

"resolved": "https://registry.npmjs.org/object-inspect/-/object-inspect-1.13.0.tgz",

"integrity": "sha512-HQ4J+ic8hKrgIt3mqk6cVOVrW2ozL4KdvHlqpBv9vDYWx9ysAgENAdvy4FoGF+KFdhR7nQTNm5J0ctAeOwn+3g==",

"funding": {

"url": "https://github.com/sponsors/ljharb"

}

},

"node\_modules/qs": {

"version": "6.11.2",

"resolved": "https://registry.npmjs.org/qs/-/qs-6.11.2.tgz",

"integrity": "sha512-tDNIz22aBzCDxLtVH++VnTfzxlfeK5CbqohpSqpJgj1Wg/cQbStNAz3NuqCs5vV+pjBsK4x4pN9HlVh7rcYRiA==",

"dependencies": {

"side-channel": "^1.0.4"

},

"engines": {

"node": ">=0.6"

},

"funding": {

"url": "https://github.com/sponsors/ljharb"

}

},

"node\_modules/reflect-metadata": {

"version": "0.1.13",

"resolved": "https://registry.npmjs.org/reflect-metadata/-/reflect-metadata-0.1.13.tgz",

"integrity": "sha512-Ts1Y/anZELhSsjMcU605fU9RE4Oi3p5ORujwbIKXfWa+0Zxs510Qrmrce5/Jowq3cHSZSJqBjypxmHarc+vEWg=="

},

"node\_modules/semver": {

"version": "7.5.4",

"resolved": "https://registry.npmjs.org/semver/-/semver-7.5.4.tgz",

"integrity": "sha512-1bCSESV6Pv+i21Hvpxp3Dx+pSD8lIPt8uVjRrxAUt/nbswYc+tK6Y2btiULjd4+fnq15PX+nqQDC7Oft7WkwcA==",

"dependencies": {

"lru-cache": "^6.0.0"

},

"bin": {

"semver": "bin/semver.js"

},

"engines": {

"node": ">=10"

}

},

"node\_modules/side-channel": {

"version": "1.0.4",

"resolved": "https://registry.npmjs.org/side-channel/-/side-channel-1.0.4.tgz",

"integrity": "sha512-q5XPytqFEIKHkGdiMIrY10mvLRvnQh42/+GoBlFW3b2LXLE2xxJpZFdm94we0BaoV3RwJyGqg5wS7epxTv0Zvw==",

"dependencies": {

"call-bind": "^1.0.0",

"get-intrinsic": "^1.0.2",

"object-inspect": "^1.9.0"

},

"funding": {

"url": "https://github.com/sponsors/ljharb"

}

},

"node\_modules/text-encoding": {

"version": "0.7.0",

"resolved": "https://registry.npmjs.org/text-encoding/-/text-encoding-0.7.0.tgz",

"integrity": "sha512-oJQ3f1hrOnbRLOcwKz0Liq2IcrvDeZRHXhd9RgLrsT+DjWY/nty1Hi7v3dtkaEYbPYe0mUoOfzRrMwfXXwgPUA==",

"deprecated": "no longer maintained"

},

"node\_modules/tr46": {

"version": "0.0.3",

"resolved": "https://registry.npmjs.org/tr46/-/tr46-0.0.3.tgz",

"integrity": "sha512-N3WMsuqV66lT30CrXNbEjx4GEwlow3v6rr4mCcv6prnfwhS01rkgyFdjPNBYd9br7LpXV1+Emh01fHnq2Gdgrw=="

},

"node\_modules/typescript": {

"version": "5.2.2",

"resolved": "https://registry.npmjs.org/typescript/-/typescript-5.2.2.tgz",

"integrity": "sha512-mI4WrpHsbCIcwT9cF4FZvr80QUeKvsUsUvKDoR+X/7XHQH98xYD8YHZg7ANtz2GtZt/CBq2QJ0thkGJMHfqc1w==",

"dev": true,

"bin": {

"tsc": "bin/tsc",

"tsserver": "bin/tsserver"

},

"engines": {

"node": ">=14.17"

}

},

"node\_modules/undici-types": {

"version": "5.25.3",

"resolved": "https://registry.npmjs.org/undici-types/-/undici-types-5.25.3.tgz",

"integrity": "sha512-Ga1jfYwRn7+cP9v8auvEXN1rX3sWqlayd4HP7OKk4mZWylEmu3KzXDUGrQUN6Ol7qo1gPvB2e5gX6udnyEPgdA=="

},

"node\_modules/webidl-conversions": {

"version": "3.0.1",

"resolved": "https://registry.npmjs.org/webidl-conversions/-/webidl-conversions-3.0.1.tgz",

"integrity": "sha512-2JAn3z8AR6rjK8Sm8orRC0h/bcl/DqL7tRPdGZ4I1CjdF+EaMLmYxBHyXuKL849eucPFhvBoxMsflfOb8kxaeQ=="

},

"node\_modules/whatwg-url": {

"version": "5.0.0",

"resolved": "https://registry.npmjs.org/whatwg-url/-/whatwg-url-5.0.0.tgz",

"integrity": "sha512-saE57nupxk6v3HY35+jzBwYa0rKSy0XR8JSxZPwgLr7ys0IBzhGviA1/TUGJLmSVqs8pb9AnvICXEuOHLprYTw==",

"dependencies": {

"tr46": "~0.0.3",

"webidl-conversions": "^3.0.0"

}

},

"node\_modules/yallist": {

"version": "4.0.0",

"resolved": "https://registry.npmjs.org/yallist/-/yallist-4.0.0.tgz",

"integrity": "sha512-3wdGidZyq5PB084XLES5TpOSRA3wjXAlIWMhum2kRcv/41Sn2emQ0dycQW4uZXLejwKvg6EsvbdlVL+FYEct7A=="

}

}

}

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