# Week 4 Slide Han Xu

# What I did this week

- Finished 90% of the Udemy TypeScript course (skipped a section, but going 1. to revisit)
- 2. Stripped out files and functions for Iroha plugin; updated on Github
- Worked on current Tx test 3.
- Tried to compile the package but failed :C 4.



2021 Edition Maximilian Schwarzmüller. Professional Web Developer an...

\*\*

Your rating

90% Complete

FAIL packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-endpoint-v1.test.ts 153.719ms command: /usr/bin/node args:

- packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-endpoint-v1.test.ts exitCode: 1 signal: null

FAIL TAP

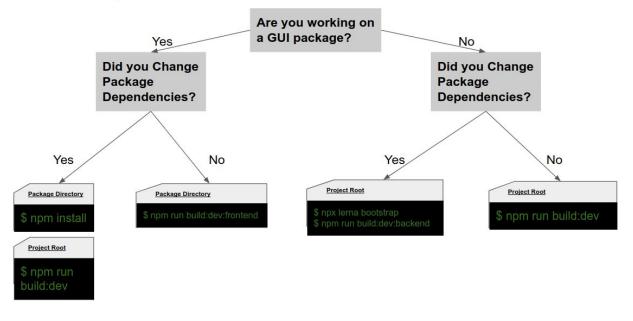
x packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-endpoint-v1.test.ts

test: TAP env: {}

file: packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-endpoint-v1.test.ts timeout: 600000 command: /usr/bin/node

# Write build script

#### **Build Script Decision Tree**



For me, "npm run build:dev" -> npm run build:dev:plugin-ledger-connector-iroha ?

But I do not need to worry about build script now?

lerna exec --stream --scope '\*/\*connector-iroha' -- 'del-cli dist/\*\* && tsc --project ./tsconfig.json && webpack --env=dev --target=node --config ../../webpack.config.js'

# (https://github.com/hyperledger/cactus/blob/main/BUILD.m d)

• Run the initial configuration script (can take a long time, 10+ minutes on a low-spec laptop)

npm run configure

At this point you should have all packages built for development.

You can start making your changes (use your own fork and a feature branch) or just run existing tests and debug them to see how things fit together.

For example you can run a ledger contract deployment test via the REST API with this command:

npx tap --timeout=600 packages/cactus-test-plugin-ledger-connector-quorum/src/test/typescript/integration/plugin-ledger-co

You can also start the API server and verify more complex scenarios with an arbitrary list of plugins loaded into Cactus. This is useful for when you intend to develop your plugin either as a Cactus maintained plugin or one on your own.

npm run generate-api-server-config

## Question about initiating test cases

npx tap --timeout=600

packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/iroha -test-ledger-parameters.test.ts

npx tap --timeout=600 packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-tr ansaction-endpoint-v1.test.ts

## **Technical Questions**

1. Debug npm run configure

(is it okay to do ` noUnusedParameters: false` in tsconfig.json)

- 2. How did you prevent certain changes being uploaded to Github
- 3. Further problems for tsc
- 4. Sign transaction (I think Iroha's sign transaction is within Txbuilder)
- 5. Watchblock (I think Iroha does with a query)
- 6. Docker-compose's volume? How to copy+paste

```
message BlockQueryResponse {
    oneof response {
      BlockResponse block_response = 1;
      BlockErrorResponse block_error_response = 2;
    }
}
message BlockResponse {
    Block block = 1;
}
message BlockErrorResponse {
    string message = 1;
}
```

Please note that it returns a stream of *BlockQueryResponse*.

## **General Questions**

#### May I adjust my future plan a little bit?

Week 3 - Week 6 Jun 19 - July 9 <b>July 9: Midterm Quarter Evaluation</b>	<ul> <li>Implement the Iroha and Cactus integration.</li> <li>Write tests for the Iroha and Cactus integration.</li> <li>Write documentation.</li> </ul>	<ul> <li>Near-complete package for Iroha and Cactus integration.</li> <li>Technical documentation for the package.</li> </ul>
Week 6 - Week 10 July 10 - July 30 July 30: 3rd Quarter Evaluation	<ul> <li>(2 and more) examples of Iroha and Cactus integration.</li> <li>2 examples of Iroha and Fabric integration.</li> <li>Write tests for Iroha and Cactus integration.</li> <li>Write tests for Iroha and Fabric integration.</li> <li>Write documentation.</li> </ul>	<ul> <li>Completed package for Iroha and Cactus integration.</li> <li>3 examples of Iroha and Cactus integration.</li> <li>2 examples of Iroha and Fabric integration.</li> </ul>
Week 10 July 31 - Aug 10 Aug 20-31: Final Evaluation	<ul> <li>Wrap up documentation.</li> <li>Final report of the project.</li> <li>Final presentation of the project</li> </ul>	<ul> <li>Code for unit tests and integration tests. *</li> <li>Technical documentation for the entire project.</li> <li>Final report.</li> <li>Final presentation.</li> </ul>

# Questions for me

Critique is welcomed!

#### Expectation of Coming Week (Week 5)

# Thank you!