OF AELF INTERNAL DEVELOPER COMMUNITY EVENT (FIRST)

AELF BOILERPLATE INTRODUCTION

aelf Boilerplate is a development template based on the aelf blockchain system with built-in development scaffolding and simple demo. You can use aelf Boilerplate to quickly build your own blockchain system or develop smart contracts and DAPPs based on the aelf blockchain system.

This tutorial will guide you through a demo, and you will able to build aelf blockchain environment in just 5 minutes.

Demo Introduction

This tutorial has prepared 4 demos for you:

- 1.**HelloWorld Smart Contract Demo**: Guides you to develop smart contracts based on aelf blockchain system using aelf Boilerplate
- 2.**JS SDK Demo**: Guide you to build a DAPP that interacts with the above *HelloWorld Smart Contract* by using JS SDK
- 3.aelf Browser Plugin Demo: Guide you to develop DAPP based on aelf blockchain system by using aelf browser plugin
- 4.DAPP Demo: Guide you to run DAPP based on aelf blockchain system Bingo Game

Hint:

This tutorial only introduces steps to run the demo on MacOS system. The running steps on other operating systems are slightly different. Check official Gitbook for details: https://docs.aelf.io/main

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Operating Tutorial

1. Preparation

(1) Development Environment

Visual Studio Code (vscode), need to install c# extension

(2) Software Tool

Google Chrome, git, Dotnet core SDK, nodejs

MAC users also need to install Homebrew

Related links can be found in the official Gitbook: https://docs.aelf.io/main

2. run the Demo

We default you have successfully completed the above preparations.

(1) Download and Open AElf.Boilerplate

Open terminal and download AElf.Boilerplate by entering the following command git clone https://github.com/aelfProject/aelf-boilerplate

When the download is complete, open AEIf.Boilerplate file in Visual Studio Code.

(2) Download protobuf script

Open Visual Studio Code terminal and enter command sh Chain/scripts/install.sh to download protobuf script.

(3) Run HelloWorld Smart Contract Demo

Open Visual Studio Code terminal and start the node with the following command:

Cd chain/src/AElf.Boilerplate.Launcher/

Dotnet build

Dotnet run bin/Debug/netcoreapp2.2/AElf.Boilerplate.Launcher

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Test the contract by using the following command:

Cd ../../test/HelloWorldContract.Test/

Dotnet test

Result:

Total tests: 1. Passed: 1. Failed: 0. Skipped: 0. Test Run Successful.

(4) Run JS SDK Demo

Open Visual Studio Code terminal to start the node

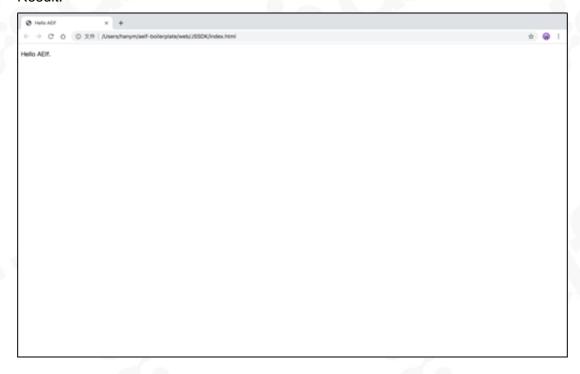
Run JS SDK Demo with the following command:

Cd ../../web/JSSDK/

Npm install

Npm start

Result:



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(5) Run aelf browser plugin Demo

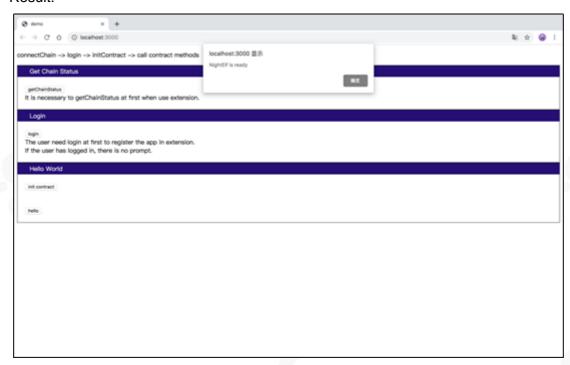
Open Visual Studio Code terminal to start the node Run aelf browser plugin with the following command:

Cd ../browserExtension/

Npm install

Npm start

Result:



(6) Run DAPP Demo - BingoGame

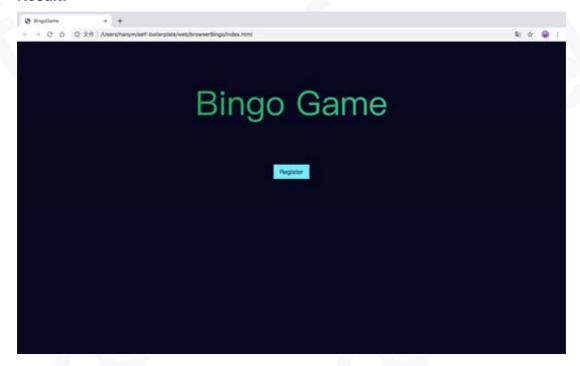
Open Visual Studio Code terminal to start the node Run BingoGame with the following command:

Cd web/browserBingo/

Open index.html

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Result:



Tip: The whole operation is expected to take about half an hour. The content of the tutorial is based on the official Gitbook.