Overview

The purpose of the application is to create, update and show statistics for token information

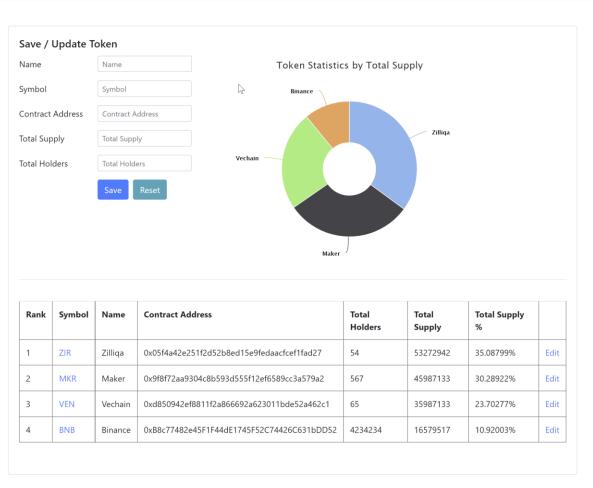
Required Features:

PART 1

 Create ASP.NET web form contains input form, pie chart and table (SINGLE PAGE APPLICATION)

Output:

Etherscan

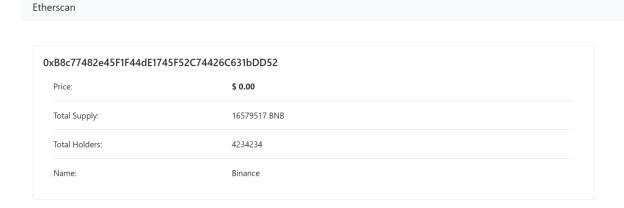


- 2. Required input field
 - a. name = string
 - b. symbol = string
 - c. contract address = string
 - d. total supply = integer
 - e. total holders = integer
 - f. total supply % = percentage for each token / overall total supply
- 3. Table should list all the tokens and able to edit (Please allow pagination and limit page size to 10)
- 4. Symbol column should able to navigate to detail page (see below PART 2)
- 5. Save button should able to save new data or update existing data.

- 6. Show pie chart group by Name and total supply only.
- 7. Pie Chart should show latest data after save or update.
- 8. Add button to export the list to CSV format
- **9.** Make any additions to enhanced the stability / functionality of this application
- 10. Keep the code clean, well-organized and well commented.

PART 2

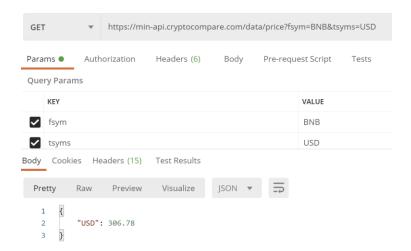
Create detail page (parameter id. Eg. /detail.aspx?id=BNB)



- 2. Price should updated from window services (PART 3) every 5 mins.
- 3. Keep the code clean, well-organized and well commented.

PART 3

- 1. Create simple window console app to pull token price from API and update to database
- 2. Process should run every 5 mins and pull for all token from database
- 3. Sample API: https://min-api.cryptocompare.com/data/price?fsym=BNB&tsyms=USD



4. Set price to 0 if price not available from API / invalid symbol

Database Structure

```
CREATE TABLE `token` (
      `id` INT(11) NOT NULL AUTO INCREMENT,
      `symbol` VARCHAR(5) NOT NULL COLLATE 'utf8_general_ci',
      `name` VARCHAR(50) NOT NULL COLLATE 'utf8_general_ci',
      `total supply` BIGINT(20) NOT NULL,
      `contract address` VARCHAR(66) NOT NULL COLLATE 'utf8 general ci',
      `total_holders` INT(11) NOT NULL,
      `price DECIMAL(65,2) NULL DEFAULT '0.00',
      PRIMARY KEY ('id') USING BTREE
COLLATE='utf8 general ci'
ENGINE=InnoDB
ROW FORMAT=DYNAMIC
AUTO INCREMENT=8
Sample Data
INSERT INTO `token` (`symbol`, `name`, `total_supply`, `contract_address`,
`total holders`, `price`) VALUES ('VEN', 'Vechain', 35987133,
'0xd850942ef8811f2a866692a623011bde52a462c1', 65, 0.00);
INSERT INTO `token` (`symbol`, `name`, `total_supply`, `contract_address`,
`total holders`, `price`) VALUES ('ZIR', 'Zilliqa', 53272942,
'0x05f4a42e251f2d52b8ed15e9fedaacfcef1fad27', 54, 0.00);
INSERT INTO `token` (`symbol`, `name`, `total_supply`, `contract_address`,
`total holders`, `price`) VALUES ('MKR', 'Maker', 45987133,
'0x9f8f72aa9304c8b593d555f12ef6589cc3a579a2', 567, 0.00);
INSERT INTO `token` (`symbol`, `name`, `total_supply`, `contract_address`,
`total_holders`, `price`) VALUES ('BNB', 'Binance', 16579517,
'0xB8c77482e45F1F44dE1745F52C74426C631bDD52', 4234234, 0.00);
```