## **ABIs**

## **AMM**

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"name" :
"_factory",
"type":
"address"
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"address" ,
"name" :
"_weth",
"type":
"address"
}
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"nonpayable",
"type":
"constructor"
},
{
"stateMutability":
"payable",
"type":
"fallback"
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"inputs":
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"outputs":
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"" ,
"type":
"address"
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"type":
"function"
},
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"name" :
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"type":
"address"
},
{
"internalType" :
"address",
"name" :
"tokenB",
"type":
"address"
```

```
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"uint256",
"name" :
"amount AD esired" ,
"type":
"uint256"
},
{
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"uint256",
"name" :
"amountBDesired" ,
"type":
"uint256"
},
{
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"name":
"amount A Min" \,
"type":
"uint256"
},
{
"internalType":
"uint256",
"name" :
"amountBMin",
"type":
"uint256"
},
{
"internalType" :
"address",
"name":
```

```
"to" ,
"type":
"address"
},
{
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"uint256",
"name" :
"deadline",
"type":
"uint256"
},
{
"internalType":
"uint256",
"name" :
"feeType",
"type":
"uint256"
},
{
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"name" :
"stable",
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"name":
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"name" :
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"uint256"
},
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"uint256"
}
],
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"type":
"function"
},
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"address",
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"token" ,
"type":
"address"
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```

```
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"uint256",
"name" :
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},
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},
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"name" :
"to" ,
"type":
"address"
},
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"uint256",
"name" :
"deadline",
```

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"type":
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},
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"addLiquidityETH" ,
"outputs":
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"name" :
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"name" :
"amountETH",
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"type":
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"type":
"function"
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```
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"name" :
"tokenOut",
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"address"
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"getAmountOut",
"outputs":
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"name":
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```
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"name" :
"stable",
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"bool"
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"fee",
"type" :
"uint256"
}
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"type":
"function"
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"uint256"
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```

```
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"name" :
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"bool[]"
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"type":
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"type":
"function"
},
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"inputs":
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"type":
"bool[]"
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```
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},
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"name":
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"type":
"bool"
}
],
"name" :
"getPairInfo",
```

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"tokenA",
"type":
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{
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"address" ,
"name" :
"tokenB",
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"address"
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},
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"reserveA",
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"uint256"
},
{
"internalType" :
"uint256" ,
```

```
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},
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"function"
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"tokenA",
"type":
"address"
},
{
"internalType":
"address" ,
"name" :
"tokenB",
"type":
"address"
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```
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],
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},
{
"internalType":
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"type":
"uint256"
}
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"stateMutability":
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"type":
"function"
},
{
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```
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},
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"name" :
"tokenB",
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"bool"
}
],
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"type":
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```
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"type":
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},
{
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"name" :
"reserveA" ,
"type":
"uint256"
},
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"uint256",
"name" :
"reserveB",
"type":
"uint256"
}
],
"name":
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"amountB" ,
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"uint256"
}
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"type":
"address"
},
{
"internalType":
"address",
"name" :
"tokenB",
"type":
"address"
},
{
```

```
"internalType":
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"name" :
"liquidity",
"type":
"uint256"
},
{
"internalType" :
"uint256",
"name":
"amount A Min" \,
"type":
"uint256"
},
{
"internalType":
"uint256",
"name" :
"amountBMin",
"type":
"uint256"
},
{
"internalType":
"address",
"name" :
"to" ,
"type":
"address"
},
{
"internalType":
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"name" :
"deadline",
"type":
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```
"uint256"
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{
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"stable",
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"bool"
}
],
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"outputs":
[
{
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"uint256",
"name" :
"amountA",
"type":
"uint256"
},
{
"internalType":
"uint256",
"name" :
"amountB",
"type":
"uint256"
}
],
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"type":
"function"
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```
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"liquidity",
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"uint256"
},
{
"internalType":
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"name":
"amountTokenMin" ,
"type":
"uint256"
},
"internalType":
"uint256",
"name" :
"amountETHMin" ,
"type":
"uint256"
},
{
"internalType":
```

```
"address",
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"to" ,
"type":
"address"
},
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"internalType":
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"name" :
"deadline" ,
"type":
"uint256"
},
{
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"bool",
"name" :
"stable",
"type":
"bool"
}
],
"name":
"remove Liquidity ETH" \; , \\
"outputs" :
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"name" :
"amountToken",
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"uint256"
},
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"internalType":
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```
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"uint256"
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},
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"name" :
"token",
"type":
"address"
},
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"name" :
"liquidity",
"type":
"uint256"
},
{
"internalType":
"uint256",
"name":
"amountTokenMin" ,
"type":
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```
"uint256"
},
{
"internalType":
"uint256",
"name":
"amountETHMin",
"type":
"uint256"
},
{
"internalType" :
"address" ,
"name" :
"to" ,
"type":
"address"
},
{
"internalType" :
"uint256" ,
"name":
"deadline",
"type":
"uint256"
},
"internalType":
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"name" :
"stable",
"type":
"bool"
}
],
"name":
"remove Liquidity ETHS upporting Fee On Transfer Tokens"\;,
```

```
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"function"
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"name" :
"tokenA",
"type":
"address"
},
"internalType":
"address",
"name" :
"tokenB",
"type":
"address"
}
],
"name":
```

```
"sortTokens",
"outputs":
[
{
"internalType" :
"address",
"name" :
"token0",
"type":
"address"
},
{
"internalType":
"address" ,
"name" :
"token1",
"type":
"address"
}
],
"stateMutability":
"pure",
"type":
"function"
},
{
"inputs":
[
"internalType":
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"name" :
"amountOutMin",
"type":
"uint256"
},
{
```

```
"internalType":
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"name" :
"path",
"type":
"address[]"
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{
"internalType":
"address",
"name":
"to" ,
"type":
"address"
},
{
"internalType" :
"uint256",
"name" :
"deadline",
"type":
"uint256"
},
{
"internalType":
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"name" :
"stable",
"type":
"bool[]"
}
],
"name":
"swapExactETHForTokens"\;,
"outputs":
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{
```

```
"internalType" :
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}
],
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"function"
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"name" :
"amountOutMin" ,
"type":
"uint256"
},
{
"internalType":
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"name" :
"path",
"type":
"address[]"
},
{
"internalType":
"address",
"name" :
"to" ,
```

```
"type":
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{
"internalType":
"uint256",
"name":
"deadline" ,
"type":
"uint256"
},
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"internalType":
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"name" :
"stable",
"type":
"bool[]"
}
],
"name":
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"type":
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{
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{
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"uint256",
"name" :
"amountOutMin",
"type":
"uint256"
},
{
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"path",
"type":
"address[]"
},
{
"internalType":
"address" ,
"name" :
"to" ,
"type":
"address"
},
"internalType":
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"name" :
"deadline",
"type":
"uint256"
},
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"internalType":
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```
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"type":
"bool[]"
}
],
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"amountIn",
"type":
"uint256"
},
{
```

```
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"amountOutMin",
"type":
"uint256"
},
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"name":
"path",
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"name" :
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"name" :
"deadline",
"type":
"uint256"
},
{
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"name" :
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"type":
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```
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"swap {\sf ExactTokensForETHSupportingFeeOnTransferTokens"}\ ,
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"type":
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"type":
"uint256"
},
{
"internalType":
"uint256",
"name":
"amountOutMin" ,
"type":
"uint256"
},
"internalType":
"address[]",
"name":
"path",
"type":
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```
"address[]"
},
{
"internalType" :
"address",
"name" :
"to" ,
"type":
"address"
},
{
"internalType" :
"uint256",
"name" :
"deadline",
"type":
"uint256"
},
{
"internalType":
"bool[]",
"name" :
"stable",
"type":
"bool[]"
}
],
"name":
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"outputs":
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"name" :
"amounts",
"type":
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```
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"nonpayable",
"type":
"function"
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"type":
"uint256"
},
{
"internalType":
"uint256",
"name":
"amountOutMin" ,
"type":
"uint256"
},
"internalType":
"address[]",
"name" :
"path",
"type":
"address[]"
},
{
"internalType":
```

```
"address",
"name":
"to" ,
"type":
"address"
},
{
"internalType":
"uint256",
"name":
"deadline",
"type":
"uint256"
},
{
"internalType" :
"bool[]",
"name" :
"stable",
"type":
"bool[]"
}
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"name":
"swap Exact Tokens For Tokens Supporting Fee On Transfer Tokens"\;,
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"stateMutability":
"nonpayable",
"type":
"function"
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"inputs":
[],
"stateMutability":
"nonpayable",
```

```
"type":
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},
{
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false,
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"address" ,
"name" :
"token0",
"type":
"address"
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"indexed":
\quad \text{true} \;,
"internalType":
"address",
"name" :
"token1" ,
"type":
"address"
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{
"indexed":
false,
"internalType":
"bool",
"name" :
"stable",
"type":
"bool"
```

```
},
{
"indexed":
false,
"internalType":
"address",
"name" :
"pair" ,
"type":
"address"
},
{
"indexed":
false,
"internalType" :
"uint256",
"name" :
"" ,
"type":
"uint256"
},
{
"indexed":
\quad \text{false} \;,
"internalType":
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"name":
"PairCreated",
"type":
"event"
},
```

```
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"type":
"uint256"
}
],
"name" :
"ProtocolFeeDynamicChange",
"type":
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"inputs":
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{
"indexed":
false,
"internalType" :
"uint256",
"name" :
"_protocolFeeFixed",
"type":
"uint256"
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{
"indexed":
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"name" :
"_feeTo" ,
"type":
"address"
}
],
"name":
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"type":
"event"
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"inputs":
[
"internalType":
"uint256",
"name":
"type":
"uint256"
}
```

```
],
"name":
"allPairs",
"outputs":
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"address",
"name" :
"" ,
"type":
"address"
}
],
"stateMutability":
"view",
"type":
"function"
},
{
"inputs":
[],
"name" :
"allPairsLength" ,
"outputs":
[
"internalType":
"uint256",
"name" :
"type":
"uint256"
}
],
"stateMutability":
"view" ,
```

```
"type":
"function"
},
{
"inputs":
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{
"internalType":
"address",
"name" :
"tokenA",
"type":
"address"
},
{
"internalType":
"address" ,
"name" :
"tokenB",
"type":
"address"
},
{
"internalType":
"uint256",
"name" :
"feeType",
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"uint256"
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"name" :
"stable",
"type":
"bool"
```

```
}
],
"name" :
"createPair",
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{
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```

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"type":
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"type":
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"amount1In",
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"uint256"
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```
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"address"
}
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},
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{
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"uint256"
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"name":
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"type":
"uint256"
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"function"
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},
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},
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"name" :
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"type":
"uint256"
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"type":
"address"
},
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"name" :
"_token1",
"type":
"address"
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"t1",
"type":
"address"
}
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"view" ,
"type":
"function"
},
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"name" :
"type":
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"amount1Out",
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"uint256"
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"function"
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"function"
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## **Amplifier**

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[
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false,
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"uint256",
"name" :
"_pMulti",
"type":
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}
],
"name" :
"PercentageMultiChanged",
"type":
"event"
},
{
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false \; , \\
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{
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false,
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"uint256",
"name" :
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"uint256"
}
],
"name":
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```
"RewardBaseChanged",
"type":
"event"
},
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false,
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[
{
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"internalType":
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"name" :
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"uint256"
},
{
"indexed":
false,
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"uint256",
"name" :
"payout",
"type":
"uint256"
},
{
"indexed":
false,
"internalType":
"address",
"name" :
"depositor",
"type":
```

```
"address"
},
{
"indexed":
false,
"internalType":
"uint256",
"name" :
"time",
"type":
"uint256"
}
],
"name":
"StakeCreated"\;,\\
"type":
"event"
},
{
"inputs":
[
{
"internalType" :
"uint256[]",
"name" :
"ids" ,
"type":
"uint256[]"
}
],
"name" :
"GetUsedVeInfo",
"outputs":
[
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"uint256[]",
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```
"name" :
"" ,
"type":
"uint256[]"
}
],
"stateMutability":
"view",
"type":
"function"
},
{
"inputs":
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{
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"account",
"type":
"address"
},
{
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"uint256",
"name" :
"_index",
"type":
"uint256"
}
],
"name" :
"GetUserStake"\;,
"outputs":
[
"components":
```

```
[
"internalType" :
"uint256",
"name" :
"stake Amount"\;,\\
"type":
"uint256"
},
{
"internalType":
"uint256",
"name" :
"stakedTime",
"type":
"uint256"
},
{
"internalType":
"uint256",
"name":
"reward Amount" \ , \\
"type":
"uint256"
},
{
"internalType":
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"name" :
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"type":
"uint256"
},
{
"internalType" :
"uint256",
"name":
```

```
"epochDuration",
"type":
"uint256"
},
{
"internalType":
"uint256",
"name" :
"lastRedeem",
"type":
"uint256"
},
{
"internalType":
"uint256",
"name" :
"supplyIndex0",
"type":
"uint256"
},
{
"internalType" :
"uint256",
"name" :
"supplyIndex1",
"type":
"uint256"
}
],
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"struct MuteAmplifierRedux.StakeTerms",
"name" :
"stake",
"type":
"tuple"
}
],
```

```
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"type":
"function"
},
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"type" :
"address"
}
],
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"GetUserStakeLength"\;,
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"" ,
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"function"
},
{
"inputs" :
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```
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"components":
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"uint256",
"name" :
"stakedTime",
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"uint256"
},
"internalType" :
"uint256",
"name":
```

```
"rewardAmount",
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},
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"internalType":
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"name" :
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"type":
"uint256"
},
{
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"uint256",
"name" :
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"type":
"uint256"
},
{
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"uint256",
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"uint256"
},
{
"internalType":
"uint256",
"name" :
"supplyIndex0",
"type":
"uint256"
},
{
```

```
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"uint256"
}
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}
],
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"name" :
"account",
"type":
"address"
},
{
"internalType" :
"uint256",
"name" :
"amount",
```

```
"type":
"uint256"
},
{
"internalType" :
"uint256[]",
"name" :
"velds",
"type":
"uint256[]"
}
],
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"calculateMultiplier",
"outputs":
[
{
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"uint256",
"name" :
"type":
"uint256"
}
],
"stateMutability":
"view",
"type":
"function"
},
{
"inputs":
[
"internalType":
"uint256",
"name":
```

```
"min" ,
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},
{
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"name" :
"max" ,
"type" :
"uint256"
}
],
"name" :
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"outputs":
[
{
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"" ,
"type":
"uint256"
}
],
"stateMutability":
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"type":
"function"
},
{
"inputs":
[],
"name" :
"currentEpoch",
"outputs":
```

```
[
{
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"uint256",
"name" :
"" ,
"type":
"uint256"
}
],
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"type":
"function"
},
{
"inputs" :
[
{
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"name" :
"value" ,
"type":
"uint256"
},
{
"internalType":
"uint256[]",
"name" :
"velds",
"type":
"uint256[]"
}
],
"name" :
"deposit",
```

```
"outputs":
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{
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"name" :
"type":
"uint256"
}
],
"state Mutability":\\
"nonpayable",
"type" :
"function"
},
{
"inputs":
[],
"name" :
"epoch",
"outputs" :
[
{
"internalType":
"uint256",
"name" :
"type":
"uint256"
}
],
"stateMutability":
"view" ,
"type":
"function"
},
```

```
{
"inputs":
[],
"name" :
"epochDuration",
"outputs":
[
{
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"name" :
"type":
"uint256"
}
],
"stateMutability":
"view",
"type":
"function"
},
{
"inputs":
[],
"name" :
"management_fee",
"outputs":
[
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"uint256",
"name" :
"" ,
"type":
"uint256"
}
],
```

```
"stateMutability":
"view",
"type":
"function"
},
{
"inputs":
[],
"name":
"maxDeposit",
"outputs":
[
{
"internalType":
"uint256",
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···· ,
"type":
"uint256"
}
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"type":
"function"
},
{
"inputs" :
[
"internalType":
"address",
"name" :
"account",
"type":
"address"
},
```

```
{
"internalType" :
"uint256",
"name" :
"_am" ,
"type":
"uint256"
},
{
"internal Type" :
"uint256[]",
"name" :
"velds",
"type" :
"uint256[]"
}
],
"name" :
"payoutFor",
"outputs":
[
{
"internalType":
"uint256",
"name" :
"" ,
"type":
"uint256"
}
],
"stateMutability":
"view" ,
"type":
"function"
},
{
"inputs":
```

```
[],
"name" :
"percentageMulti",
"outputs":
[
{
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"uint256",
"name" :
"" ,
"type":
"uint256"
}
],
"stateMutability":
"view",
"type":
"function"
},
{
"inputs":
[],
"name" :
"redeemRewards" \ , \\
"outputs":
[],
"stateMutability":
"nonpayable",
"type":
"function"
},
"inputs":
[
"internalType":
"address",
```

```
"name" :
"account",
"type":
"address"
}
],
"name" :
"redeemRewardsView",
"outputs":
[
{
"internalType" :
"uint256",
"name" :
"type":
"uint256"
}
],
"stateMutability":
"view",
"type":
"function"
},
{
"inputs" :
[],
"name" :
"rewardBase",
"outputs":
[
"internalType":
"uint256",
"name" :
"type":
```

```
"uint256"
}
],
"stateMutability":
"view",
"type":
"function"
},
{
"inputs":
[
{
"internalType":
"uint256",
"name" :
"_duration",
"type":
"uint256"
}
],
"name":
"setEpochDuration" \ ,\\
"outputs":
[],
"stateMutability":
"nonpayable",
"type":
"function"
},
{
"inputs":
[
"internalType":
"uint256" ,
"name" :
"_fee" ,
```

```
"type":
"uint256"
}
],
"name" :
"setManagementFee",
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[],
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"type":
"function"
},
{
"inputs":
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"name" :
"_oracle",
"type":
"address"
}
],
"name" :
"setOracle",
"outputs":
[],
"stateMutability":
"nonpayable",
"type":
"function"
},
{
"inputs":
[
```

```
{
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"name" :
"_pMulti" ,
"type":
"uint256"
}
],
"name":
"setPercentageMulti",
"outputs":
[],
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"nonpayable",
"type":
"function"
},
{
"inputs":
[
{
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"name":
"_rewardBase",
"type":
"uint256"
}
],
"name" :
"setRewardBase",
"outputs":
[],
"stateMutability":
"nonpayable",
"type":
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```
"function"
},
{
"inputs":
[],
"name" :
"totalDebt",
"outputs":
[
{
"internalType":
"uint256",
"name" :
"" ,
"type":
"uint256"
}
],
"stateMutability":
"view",
"type":
"function"
},
{
"inputs" :
[],
"name" :
"total Payout Given" \; , \\
"outputs":
[
{
"internalType":
"uint256",
"name" :
"" ,
"type":
"uint256"
```

```
}
],
"stateMutability":
"view",
"type":
"function"
},
{
"inputs":
[
{
"internalType" :
"uint256",
"name" :
"type" :
"uint256"
}
],
"name":
"used
Velds" ,
"outputs":
[
"internalType":
"uint256",
"name" :
"type":
"uint256"
}
],
"stateMutability":
"view" ,
"type":
"function"
},
```

```
{
"inputs" :
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{
"internalType" :
"address",
"name" :
"type":
"address"
},
{
"internalType":
"uint256",
"name" :
"" ,
"type":
"uint256"
}
],
"name" :
"userStakes",
"outputs":
[
"internalType":
"uint256",
"name" :
"stakeAmount" ,
"type":
"uint256"
},
{
"internalType":
"uint256",
"name" :
"stakedTime",
```

```
"type":
"uint256"
},
{
"internalType" :
"uint256",
"name" :
"rewardAmount",
"type":
"uint256"
},
{
"internalType":
"uint256",
"name" :
"rewardClaimed",
"type":
"uint256"
},
{
"internalType":
"uint256",
"name" :
"epochDuration",
"type":
"uint256"
},
"internalType":
"uint256",
"name" :
"lastRedeem",
"type":
"uint256"
},
{
"internalType":
```

```
"uint256",
"name" :
"supplyIndex0",
"type":
"uint256"
},
{
"internalType":
"uint256",
"name" :
"supplyIndex1",
"type":
"uint256"
}
],
"stateMutability":
"view",
"type":
"function"
},
{
"inputs":
[],
"name" :
"withdraw",
"outputs" :
[],
"stateMutability":
"nonpayable",
"type":
"function"
},
{
"inputs":
[],
"name" :
"withdraw{\sf Emergency}",
```

```
"outputs" :
[],
"stateMutability" :
"nonpayable" ,
"type" :
"function"
}
```

## **DAO & Governance**

```
veMUTE [
{
"inputs":
[
{
"internalType" :
"address",
"name" :
"_muteToken",
"type":
"address"
},
{
"internalType" :
"address[]" ,
"name" :
"dmute_legacy",
"type":
"address[]"
},
{
"internalType":
"address",
"name":
"_metadata",
"type":
"address"
}
```

```
],
"stateMutability":
"nonpayable",
"type":
"constructor"
},
{
"inputs":
[],
"name" :
"InvalidShortString"\;,
"type":
"error"
},
{
"inputs" :
[
{
"internalType":
"string",
"name" :
"str" ,
"type":
"string"
}
],
"name" :
"StringTooLong",
"type":
"error"
},
"anonymous":
false,
"inputs" :
[
{
```

```
"indexed":
\quad \text{true} \;,
"internalType":
"address",
"name" :
"owner",
"type":
"address"
},
{
"indexed":
\quad \text{true} \;,
"internalType":
"address",
"name" :
"approved",
"type":
"address"
},
{
"indexed":
\quad \text{true} \ ,
"internalType" :
"uint256",
"name" :
"tokenId",
"type":
"uint256"
}
],
"name" :
"Approval",
"type":
"event"
},
{
"anonymous":
```

```
false,
"inputs":
[
{
"indexed":
true,
"internalType":
"address",
"name" :
"owner" ,
"type":
"address"
},
{
"indexed":
\quad \text{true} \;,
"internalType" :
"address",
"name" :
"operator",
"type":
"address"
},
{
"indexed":
\quad \text{false} \;,
"internalType":
"bool",
"name" :
"approved",
"type":
"bool"
}
],
"name" :
"ApprovalForAll",
"type":
```

```
"event"
},
{
"anonymous":
false,
"inputs":
[
{
"indexed":
false,
"internalType":
"uint256",
"name" :
"_fromTokenId",
"type":
"uint256"
},
{
"indexed":
false,
"internalType":
"uint256",
"name" :
"_toTokenId",
"type":
"uint256"
}
],
"name" :
"Batch Metadata Update" \ , \\
"type":
"event"
},
{
"anonymous" :
false,
"inputs":
```

```
[
{
"indexed":
\quad \text{true} \;,
"internalType":
"address",
"name" :
"delegator",
"type":
"address"
},
{
"indexed":
\quad \text{true} \;,
"internalType":
"uint256",
"name" :
"fromDelegate",
"type":
"uint256"
},
{
"indexed":
true \; , \\
"internalType":
"address",
"name" :
"toDelegate",
"type":
"address"
}
],
"name":
"DelegateChanged",
"type":
"event"
},
```

```
{
"anonymous":
false,
"inputs":
[
{
"indexed":
true,
"internalType":
"address" ,
"name" :
"delegate",
"type":
"address"
},
{
"indexed":
false,
"internalType":
"uint256",
"name" :
"previousBalance",
"type":
"uint256"
},
{
"indexed":
false,
"internalType":
"uint256",
"name" :
"newBalance",
"type":
"uint256"
}
],
"name":
```

```
"DelegateVotesChanged",
"type":
"event"
},
"anonymous":
false,
"inputs":
[],
"name":
"EIP712DomainChanged",
"type":
"event"
},
{
"anonymous":
false,
"inputs":
[
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\quad \text{true} \ ,
"internalType":
"address",
"name" :
"sender" ,
"type":
"address"
},
"indexed":
false,
"internalType":
"uint256",
"name" :
"_tokenId",
"type":
```

```
"uint256"
},
{
"indexed":
false,
"internalType":
"uint256",
"name" :
"oldTime",
"type":
"uint256"
},
{
"indexed":
false,
"internalType":
"uint256",
"name" :
"newTime",
"type":
"uint256"
}
],
"name":
"IncreaseLockEvent"\;,\\
"type":
"event"
},
"anonymous":
false,
"inputs":
[
"indexed":
true,
"internalType":
```

```
"address",
"name":
"from",
"type":
"address"
},
{
"indexed":
true,
"internal Type" :
"address",
"name" :
"to" ,
"type":
"address"
},
{
"indexed":
false,
"internalType":
"uint256",
"name":
"lockAmount",
"type":
"uint256"
},
{
"indexed":
false,
"internalType":
"uint256",
"name" :
"mintedAmount",
"type":
"uint256"
},
{
```

```
"indexed":
false,
"internalType":
"uint256",
"name" :
"totalTime",
"type":
"uint256"
}
],
"name":
"LockEvent",
"type":
"event"
},
{
"anonymous":
false,
"inputs":
[
{
"indexed":
true \; , \\
"internalType":
"address",
"name" :
"sender",
"type":
"address"
},
{
"indexed":
true,
"internalType" :
"address" ,
"name" :
"owner_0" ,
```

```
"type":
"address"
},
{
"indexed":
false,
"internalType":
"address",
"name" :
"owner_1" ,
"type":
"address"
},
{
"indexed":
false,
"internalType" :
"uint256",
"name" :
"_tokenId0",
"type":
"uint256"
},
{
"indexed":
\quad \text{false} \;,
"internalType" :
"uint256",
"name" :
"_tokenId1",
"type":
"uint256"
},
{
"indexed":
false,
"internalType":
```

```
"uint256",
"name":
"_newTokenId" ,
"type":
"uint256"
}
],
"name" :
"MergeEvent",
"type":
"event"
},
{
"anonymous":
false,
"inputs":
[
{
"indexed":
false,
"internalType":
"uint256",
"name" :
"_tokenId",
"type":
"uint256"
}
],
"name" :
"MetadataUpdate",
"type":
"event"
},
{
"anonymous" :
false,
"inputs":
```

```
[
"indexed":
\quad \text{true} \;,
"internalType":
"address",
"name" :
"previousOwner",
"type":
"address"
},
{
"indexed":
\quad \text{true} \;,
"internalType" :
"address",
"name" :
"newOwner" ,
"type":
"address"
}
],
"name" :
"Ownership Transfer Started" \ , \\
"type":
"event"
},
"anonymous":
false,
"inputs":
[
"indexed":
\quad \text{true} \ ,
"internalType":
"address",
```

```
"name" :
"previousOwner",
"type":
"address"
},
{
"indexed":
\quad \text{true} \;,
"internalType":
"address",
"name" :
"newOwner",
"type":
"address"
}
],
"name" :
"Ownership Transferred"\;,
"type":
"event"
},
{
"anonymous":
false,
"inputs":
[
{
"indexed":
true,
"internalType":
"address",
"name" :
"from",
"type":
"address"
},
{
```

```
"indexed":
\quad \text{true} \;,
"internalType":
"address",
"name" :
"to" ,
"type":
"address"
},
{
"indexed":
false,
"internalType":
"uint256",
"name" :
"unlockedAmount",
"type":
"uint256"
},
{
"indexed":
false,
"internalType" :
"uint256",
"name" :
"burnAmount",
"type":
"uint256"
}
],
"name":
"RedeemEvent",
"type":
"event"
},
{
"anonymous":
```

```
false,
"inputs":
[
{
"indexed":
true,
"internalType":
"address",
"name" :
"sender",
"type":
"address"
},
{
"indexed":
\quad \text{true} \;,
"internalType":
"address",
"name" :
"owner",
"type":
"address"
},
{
"indexed":
\quad \text{false} \;,
"internalType" :
"uint256",
"name" :
"_oldTokenId" ,
"type":
"uint256"
},
{
"indexed":
false,
"internalType":
```

```
"uint256",
"name" :
"_tokenId1",
"type":
"uint256"
},
{
"indexed":
false,
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"uint256",
"name" :
"_tokenId2",
"type" :
"uint256"
}
],
"name" :
"SplitEvent",
"type":
"event"
},
{
"anonymous" :
false,
"inputs" :
[
"indexed":
true,
"internalType":
"address",
"name":
"from" ,
"type":
"address"
},
```

```
{
"indexed":
true,
"internalType" :
"address",
"name" :
"to" ,
"type":
"address"
},
{
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true,
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"uint256",
"name" :
"tokenId",
"type":
"uint256"
}
],
"name":
"Transfer" ,
"type":
"event"
},
{
"inputs":
[],
"name" :
"CLOCK_MODE",
"outputs":
[
"internalType":
"string",
"name" :
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```
"" ,
"type":
"string"
}
],
"stateMutability":
"view",
"type":
"function"
},
{
"inputs":
[],
"name" :
"DELEGATION_TYPEHASH",
"outputs":
[
{
"internalType":
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"name" :
"" ,
"type":
"bytes32"
}
],
"stateMutability":
"view" ,
"type":
"function"
},
{
"inputs":
[],
"name" :
"DOMAIN_SEPARATOR",
"outputs":
```

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"function"
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"name" :
"type":
"bytes32"
}
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"view" ,
"type":
"function"
},
{
```

```
"inputs":
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"internalType" :
"address",
"name" :
"from",
"type":
"address"
}
],
"name" :
"GetLegacyUpgraded"\;,
"outputs":
[
{
"internalType" :
"bool" ,
"name" :
"valid",
"type":
"bool"
}
],
"stateMutability":
"view" ,
"type":
"function"
},
{
"inputs":
[
"internalType" :
"uint256",
"name":
"_id" ,
```

```
"type":
"uint256"
}
],
"name" :
"GetLockInfo",
"outputs":
[
{
"components":
[
{
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"uint256",
"name" :
"amount",
"type":
"uint256"
},
{
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"uint256",
"name" :
"time" ,
"type":
"uint256"
},
"internalType":
"uint256",
"name" :
"vote_weight",
"type":
"uint256"
},
{
"internalType":
```

```
"bool",
"name" :
"legacy",
"type":
"bool"
}
],
"internalType":
"struct veMUTEV2.UserLockInfo",
"name" :
"_info" ,
"type":
"tuple"
}
],
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"view",
"type":
"function"
},
{
"inputs":
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"name":
"GetMintCount",
"outputs":
[
"internalType":
"uint256",
"name" :
"_count",
"type":
"uint256"
}
],
"stateMutability":
```

```
"view",
"type":
"function"
},
{
"inputs":
[
{
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"address" ,
"name" :
"account",
"type":
"address"
}
],
"name" :
"GetUnderlyingTokens",
"outputs":
[
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"internalType" :
"uint256",
"name" :
"amount",
"type":
"uint256"
}
],
"stateMutability":
"view",
"type":
"function"
},
{
"inputs":
[
```

```
{
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"name" :
"account",
"type":
"address"
}
],
"name" :
"GetVotingTokens"\;,
"outputs":
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"amount",
"type":
"uint256"
}
],
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"view",
"type":
"function"
},
{
"inputs":
[
"internalType":
"uint256",
"name" :
"_tokenId",
"type":
"uint256"
```

```
},
{
"internalType" :
"uint256",
"name" :
"_time",
"type":
"uint256"
}
],
"name":
\hbox{\tt "IncreaseLockTime"}\ ,
"outputs":
[],
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"nonpayable",
"type":
"function"
},
{
"inputs":
[
"internalType":
"uint256",
"name":
"_amount",
"type":
"uint256"
},
{
"internalType":
"uint256",
"name":
"_lock_time",
"type":
"uint256"
```

```
}
],
"name" :
"Lock",
"outputs":
[],
"stateMutability":
"nonpayable",
"type":
"function"
},
{
"inputs" :
[],
"name" :
"LockLegacy",
"outputs":
[],
"stateMutability":
"nonpayable",
"type":
"function"
},
{
"inputs" :
[
"internalType":
"uint256[][]",
"name" :
"locks",
"type":
"uint256[][]"
}
],
"name" :
"LockLegacyIndex",
```

```
"outputs":
[],
"stateMutability":
"nonpayable",
"type":
"function"
},
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"inputs":
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"uint256",
"name" :
"_amount",
"type":
"uint256"
},
{
"internalType":
"uint256",
"name":
"_lock_time",
"type":
"uint256"
},
{
"internalType":
"address",
"name":
"to" ,
"type":
"address"
}
],
"name" :
"LockTo",
```

```
"outputs":
[],
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"nonpayable",
"type":
"function"
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{
"inputs":
[],
"name" :
"MAX_LOCK" ,
"outputs":
[
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"uint256",
"name" :
"" ,
"type":
"uint256"
}
],
"stateMutability":
"view" ,
"type":
"function"
},
{
"inputs":
[],
"name":
"MAX_LOCK_LEGACY",
"outputs":
[
"internalType":
```

```
"uint256",
"name":
"" ,
"type":
"uint256"
}
],
"stateMutability":
"view" ,
"type":
"function"
},
{
"inputs":
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"name" :
"MIN_LOCK",
"outputs":
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"name" :
"type":
"uint256"
}
],
"stateMutability":
"view",
"type" :
"function"
},
{
"inputs":
[
{
```

```
"internalType":
"uint256",
"name" :
"_tokenId0",
"type":
"uint256"
},
{
"internalType":
"uint256",
"name" :
"_tokenId1",
"type":
"uint256"
}
],
"name" :
"Merge",
"outputs":
[
{
"internalType":
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"_newTokenId" ,
"type":
"uint256"
}
],
"stateMutability":
"nonpayable",
"type":
"function"
},
{
"inputs":
[],
```

```
"name" :
"MuteToken",
"outputs":
[
"internalType":
"address",
"name" :
"type":
"address"
}
],
"stateMutability":
"view",
"type":
"function"
},
{
"inputs":
[
{
"internalType" :
"uint256[]",
"name" :
"lock_index",
"type":
"uint256[]"
}
],
"name":
"Redeem",
"outputs":
[],
"stateMutability":
"nonpayable",
"type":
```

```
"function"
},
{
"inputs" :
[
{
"internalType":
"uint256[]",
"name" :
"ids" ,
"type":
"uint256[]"
},
{
"internalType":
"address",
"name" :
"to" ,
"type":
"address"
}
],
"name" :
"RedeemTo"\;,
"outputs":
[],
"stateMutability":
"nonpayable",
"type":
"function"
},
"inputs":
[
"internalType":
"uint256" ,
```

```
"name" :
"_tokenId",
"type":
"uint256"
},
{
"internalType":
"uint256",
"name" :
"_amount",
"type":
"uint256"
}
],
"name" :
"Split",
"outputs":
[
{
"internalType":
"uint256",
"name" :
"_tokenId1",
"type":
"uint256"
},
{
"internalType":
"uint256",
"name" :
"_tokenId2",
"type":
"uint256"
}
],
"stateMutability":
"nonpayable",
```

```
"type":
"function"
},
{
"inputs":
[
{
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"uint256",
"name" :
"_tokenId",
"type":
"uint256"
},
{
"internalType" :
"uint256",
"name" :
"_vote_amount",
"type":
"uint256"
}
],
"name" :
"SplitLegacy",
"outputs":
[
"internalType":
"uint256",
"name" :
"_tokenId1",
"type":
"uint256"
},
{
"internalType":
```

```
"uint256",
"name" :
"_tokenId2",
"type":
"uint256"
}
],
"stateMutability":
"nonpayable",
"type":
"function"
},
{
"inputs" :
[],
"name" :
"acceptOwnership",
"outputs":
[],
"stateMutability":
"nonpayable",
"type":
"function"
},
{
"inputs":
[
"internalType":
"address",
"name" :
"to" ,
"type":
"address"
},
{
"internalType":
```

```
"uint256",
"name" :
"tokenId",
"type":
"uint256"
}
],
"name" :
"approve",
"outputs":
[],
"stateMutability":
"nonpayable",
"type" :
"function"
},
{
"inputs":
[
"internalType":
"address" ,
"name" :
"owner" ,
"type":
"address"
}
],
"name" :
"balanceOf",
"outputs":
[
{
"internalType" :
"uint256",
"name" :
"" ,
```

```
"type":
"uint256"
}
],
"stateMutability":
"view",
"type":
"function"
},
{
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"_ids" ,
"type":
"uint256[]"
}
],
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"burnLegacy",
"outputs" :
[],
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"nonpayable",
"type":
"function"
},
{
"inputs":
[
"internalType":
"address",
"name" :
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"_metadata",
"type":
"address"
}
],
"name" :
"changeMetadataProxy",
"outputs":
[],
"stateMutability":
"nonpayable",
"type":
"function"
},
{
"inputs" :
[],
"name" :
"clock",
"outputs":
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"internalType" :
"uint48",
"name" :
"type":
"uint48"
}
],
"stateMutability":
"view" ,
"type":
"function"
},
{
"inputs" :
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```
[
"internalType":
"uint256",
"name" :
"" ,
"type":
"uint256"
}
],
"name" :
"dMuteLegacy"\;,\\
"outputs":
[
{
"internalType" :
"address" ,
"name" :
"type":
"address"
}
],
"stateMutability":
"view" ,
"type":
"function"
},
{
"inputs" :
[
"internalType":
"uint256",
"name" :
"tokenId",
"type":
```

```
"uint256"
},
{
"internalType" :
"address",
"name" :
"delegatee",
"type":
"address"
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"delegate",
"outputs":
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"type":
"function"
},
{
"inputs":
[
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"uint256",
"name" :
"delegator",
"type":
"uint256"
},
{
"internalType":
"address",
"name" :
"delegatee",
"type":
```

```
"address"
},
{
"internalType" :
"uint256",
"name" :
"nonce",
"type":
"uint256"
},
{
"internal Type" :
"uint256",
"name" :
"expiry",
"type":
"uint256"
},
{
"internalType":
"uint8" ,
"name":
"v" ,
"type":
"uint8"
},
{
"internalType":
"bytes32",
"name" :
"r" ,
"type":
"bytes32"
},
{
"internalType":
"bytes32",
```

```
"name" :
"s" ,
"type":
"bytes32"
}
],
"name" :
"delegateBySig",
"outputs":
[],
"stateMutability":
"nonpayable",
"type":
"function"
},
{
"inputs":
[
{
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"name":
"tokenId",
"type":
"uint256"
}
],
"name" :
"delegates",
"outputs":
[
"internalType":
"address",
"name" :
"type":
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"address"
}
],
"stateMutability":
"view",
"type":
"function"
},
{
"inputs":
[],
"name" :
"eip712Domain",
"outputs":
[
{
"internalType" :
"bytes1",
"name" :
"fields",
"type":
"bytes1"
},
{
"internalType":
"string",
"name" :
"name",
"type":
"string"
},
{
"internalType":
"string",
"name" :
"version",
"type":
```

```
"string"
},
{
"internalType":
"uint256",
"name" :
"chainId",
"type":
"uint256"
},
{
"internalType" :
"address" ,
"name" :
"verifyingContract",
"type":
"address"
},
{
"internalType":
"bytes32",
"name":
"salt" ,
"type":
"bytes32"
},
{
"internalType":
"uint256[]",
"name":
"extensions",
"type":
"uint256[]"
}
],
"stateMutability":
"view",
```

```
"type":
"function"
},
{
"inputs":
[
{
"internalType":
"uint256",
"name" :
"tokenId",
"type" :
"uint256"
}
],
"name" :
"getApproved"\;,
"outputs":
[
"internalType":
"address",
"name" :
"type":
"address"
}
],
"stateMutability":
"view" ,
"type":
"function"
},
{
"inputs":
[
{
```

```
"internalType":
"uint256",
"name" :
"timepoint",
"type":
"uint256"
}
],
"name":
"getPastTotalSupply"\;,
"outputs":
[
{
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"uint256",
"name" :
"" ,
"type":
"uint256"
}
],
"stateMutability":
"view" ,
"type":
"function"
},
{
"inputs" :
[
"internalType":
"address",
"name" :
"account",
"type":
"address"
},
```

```
{
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"uint256",
"name" :
"timepoint",
"type":
"uint256"
}
],
"name" :
"getPastVotes",
"outputs":
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"name" :
"" ,
"type":
"uint256"
}
],
"stateMutability":
"view",
"type":
"function"
},
{
"inputs":
[
"internalType" :
"address" ,
"name" :
"account",
"type":
"address"
```

```
}
],
"name" :
"getVotes",
"outputs":
[
{
"internalType":
"uint256",
"name" :
"type":
"uint256"
}
],
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"view" ,
"type" :
"function"
},
{
"inputs":
[
{
"internalType":
"address",
"name" :
"owner" ,
"type":
"address"
},
{
"internalType":
"address",
"name" :
"operator",
"type":
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```
"address"
}
],
"name" :
"isApprovedForAll",
"outputs":
[
{
"internalType":
"bool" ,
"name":
"type":
"bool"
}
],
"stateMutability":
"view",
"type":
"function"
},
{
"inputs":
[
"internalType":
"uint256",
"name" :
"type":
"uint256"
}
],
"name" :
"legacyNFTs",
"outputs":
[
```

```
{
"internalType" :
"uint256",
"name" :
"type":
"uint256"
}
],
"stateMutability":
"view",
"type":
"function"
},
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"inputs":
[],
"name" :
"metaProxy",
"outputs":
[
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"internalType":
"address",
"name" :
"" ,
"type":
"address"
}
],
"stateMutability":
"view" ,
"type":
"function"
},
{
"inputs":
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```
[],
"name" :
"name" ,
"outputs":
[
{
"internalType":
"string",
"name":
"" ,
"type":
"string"
}
],
"stateMutability":
"view" ,
"type":
"function"
},
{
"inputs":
[
"internalType":
"address",
"name" :
"owner" ,
"type":
"address"
}
],
"name":
"nonces",
"outputs":
[
"internalType":
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```
"uint256",
"name":
"" ,
"type":
"uint256"
}
],
"stateMutability":
"view" ,
"type":
"function"
},
{
"inputs":
[],
"name" :
"owner" ,
"outputs":
[
{
"internalType":
"address",
"name" :
"type":
"address"
}
],
"stateMutability":
"view" ,
"type" :
"function"
},
{
"inputs":
[
{
```

```
"internalType":
"uint256",
"name" :
"tokenId",
"type":
"uint256"
}
],
"name" :
"ownerOf",
"outputs":
[
{
"internalType":
"address",
"name" :
"" ,
"type":
"address"
}
],
"stateMutability":
"view",
"type":
"function"
},
{
"inputs":
[],
"name" :
"pendingOwner",
"outputs":
[
"internalType":
"address",
"name":
```

```
"type":
"address"
}
],
"stateMutability":
"view",
"type":
"function"
},
{
"inputs" :
[],
"name" :
"renounceOwnership",
"outputs":
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"nonpayable",
"type":
"function"
},
{
"inputs":
[
"internalType":
"address",
"name" :
"from",
"type":
"address"
},
{
"internalType":
"address",
"name":
```

```
"to" ,
"type":
"address"
},
{
"internalType":
"uint256",
"name" :
"tokenId",
"type":
"uint256"
}
],
"name" :
"safeTransferFrom",
"outputs":
[],
"stateMutability":
"nonpayable",
"type":
"function"
},
{
"inputs":
[
"internalType":
"address",
"name" :
"from",
"type":
"address"
},
{
"internalType":
"address",
"name" :
```

```
"to" ,
"type":
"address"
},
{
"internalType":
"uint256",
"name" :
"tokenId",
"type":
"uint256"
},
{
"internalType":
"bytes",
"name" :
"data",
"type":
"bytes"
}
],
"name":
"safeTransferFrom"\;,
"outputs" :
[],
"stateMutability":
"nonpayable",
"type":
"function"
},
{
"inputs":
[
"internalType":
"address",
"name" :
```

```
"operator",
"type":
"address"
},
{
"internalType":
"bool",
"name" :
"approved",
"type":
"bool"
}
],
"name" :
"setApprovalForAll"\;,
"outputs":
[],
"stateMutability":
"nonpayable",
"type":
"function"
},
{
"inputs":
[
"internalType":
"bytes4",
"name" :
"interfaceId",
"type":
"bytes4"
}
],
"name" :
"supportsInterface",
"outputs":
```

```
[
{
"internalType":
"bool" ,
"name" :
"" ,
"type":
"bool"
}
],
"stateMutability":
"view" ,
"type":
"function"
},
{
"inputs":
[],
"name" :
"symbol",
"outputs":
[
{
"internalType":
"string",
"name":
"type":
"string"
}
],
"stateMutability":
"view" ,
"type":
"function"
},
{
```

```
"inputs":
[
"internalType" :
"uint256",
"name" :
"index",
"type":
"uint256"
}
],
"name" :
"tokenByIndex",
"outputs":
[
{
"internalType" :
"uint256",
"name" :
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