

<i>FileStream</i>
htmlsite: string
FileParser() void: __init__() returns bs4 object: openHtmlSite(htmlsite) void: closeHtmlSite(html)

<i>Database Service (Data Layer)</i>
dbName: string sqliteConnection: url bs4: bs4 object of site
databaseService() void: __init__(bs4) - calls construct() void: construct(fileName) void: readData() - parse using bs4 object void: createDatabase() - calls connect() method - commits data into db table void: connect() - uses "Server Socket" to connect to the database server void: table(query) void: insert(query, dataframe) returns JSON object: search(query, value)

<i>Thread Manager</i>
dbName: string sqliteConnection: url
threads() void: __init__() void: startAgent() - creates 6 agent() objects void: linePlot() - (per agent)

<i>Agent</i>
dbName: string sqliteConnection: url columnName: string
agent() void: __init__() - start a thread returns list: getData() - put lock so only one agent can access database at a time - data from 1990-2019 for respective Global Radiative Force - release the lock for next thread void: queryBuilder()