

# **COVID19 Daily Updater**

Requirements and Design Documentation

28MAR20

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# Overview

## 1. Terms Used

Coronavirus or COVID-19:

Refers to a disease, Coronavirus, discovered in late 2019. This disease has caused world-wide upset resulting in many deaths and infections.

CDU:

**Covid-19 Daily Updater.** The software sending information regarding the Coronavirus to the end user.

Stay at Home or SAH:

Exactly what it sounds like. Telling people to stay at home and not go outside for entertainment.

Text Messages:

Messages received by cellphones containing textual information.

CSSEGISandData:

The github account provided by John Hopkins University providing totals of the Coronavirus counts.

PII:

Personal Identifying Information, information such as phone numbers, emails, passwords, names.

## 2. Scope

CDU provides the user with the ability to receive automated text messages about the latest Coronavirus tallies and “Stay at Home” orders.

## 3. Audience

Anyone who has a computer typically running at all times, or close to all times and is too lazy to check graphs on a daily bases but is still interested to know the daily Coronavirus totals.

## 4. Requirements

- Must be able to encrypt PII to prevent unauthorized viewing.
- Must be able to automatically determine how to send text messages to major cellphone providers.
- Must be able to fetch the data from the CSSEGISandData/COVID-19 and parse it based on the user's input.
- Must be able to connect to the user's email account to send text messages.
- Must allow user to subscribe to multiple states' data.
- Will be able to calculate and provide infection, death, and recovery percent increase/decrease from the previous day.
- Check governor websites regularly if directed, for SAH orders.
  - Aliases:
    - Stay Home Order
    - Stay at Home Order
    - Shelter In Place Order
- Allow for the user to reset, add, and remove configurations.

## 5. Menus

Menus and their associated commands can be found inside the ODS file "CDU Defintions.ods" inside the "Menus" tab.

## 6. Modules

Modules with their attributes, classes, properties, requirements, and purposes can be found inside the ODS file "CDU Defintions.ods" inside the "Modules" tab.

## 7. Layout

There are no graphical layouts for this program, as it is terminal based.

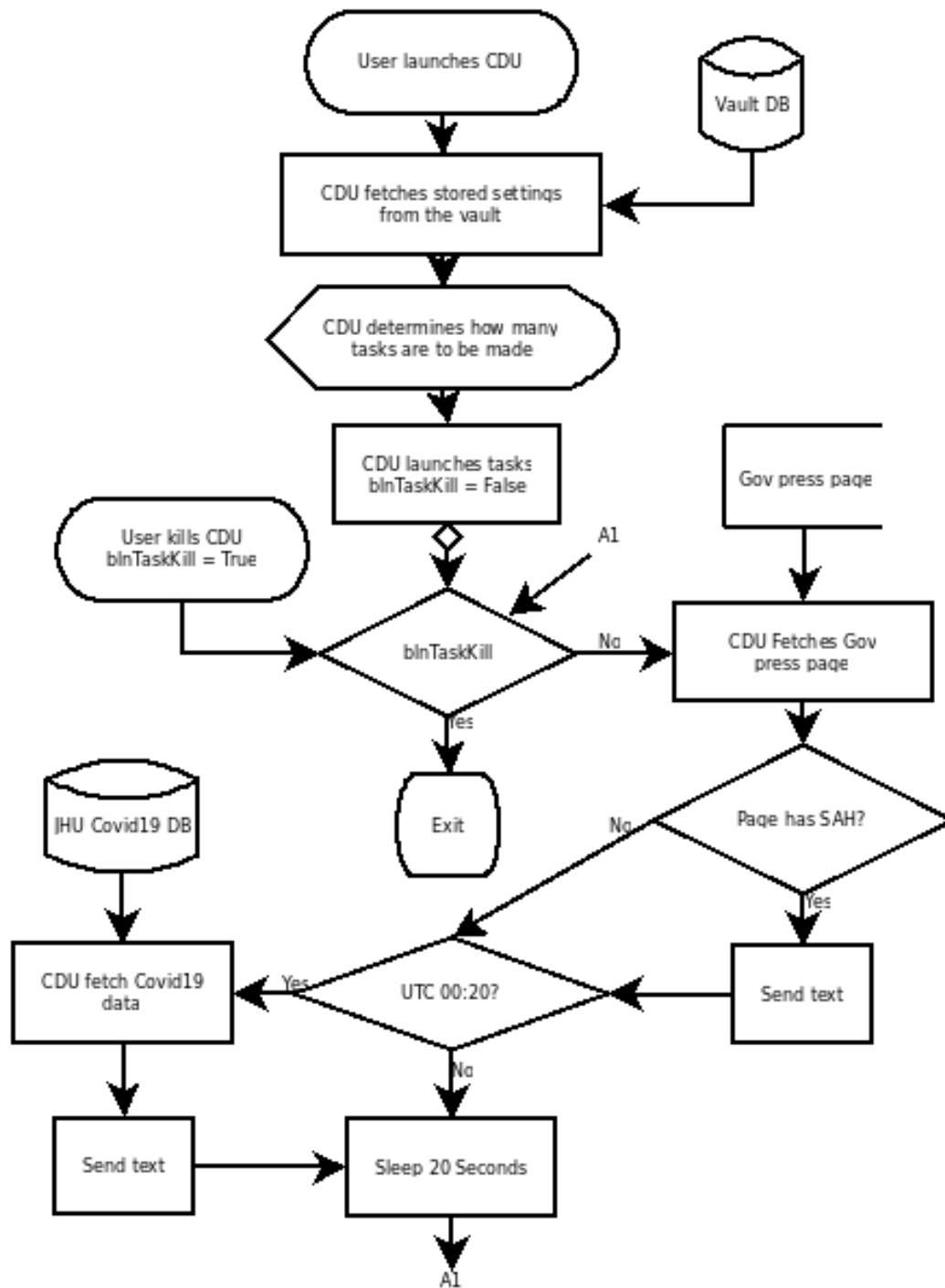
Daily Report text formatting:

```
SUBJECT: strTitle
strReportDate
Cases: strCases -- strCPercent
Dead: strDead -- strDPercent
Recovered: strRecovered -- strRPercent
```

## SAH Alert text formatting:

SUBJECT: strTitle  
strReportDate  
strLocation has issued a Stay at Home  
Order. For more information, please visit:  
strGovURL

## 8. Functional Diagram



## 9. Remarks

The developers are not responsible for any misuse of CDU. Federal law prohibits the sending of unwarranted (spam) text messages to non-consenting users.

The developers are not responsible for any data charges incurred by the user for operating their instance of CDU.

The developers are not responsible for any misuse of the the cellular network. Prior to operating CDU, the user should verify with their cellular provider if using a system like CDU is within reason.

The developers are not responsible for any data theft due to malware or bad actors accessing the user's personal computer. Steps have been taken to help mitigate direct access to the user's PII. By using this program, the user acknowledges this and withholds their right place fault on the developers.

## Revisions

Name	Date	Change
Fernacen	28MAR20	Initial Version
Fernacen	30MAR20	Added new requirement, “Stay at Home” order detection
Fernacen	31MAR20	Added better pictures, minor modifications to specifications, reorganizing