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# 1 Set Up

## 1.1 Install python (one-time setup)

1. Double click on “*python-3.9.1-amd64.exe*” to run it.
2. Follow this guide for the settings: [How to Install Python on Windows 10 - JournalDev](https://www.journaldev.com/30076/install-python-windows-10)

***\*Tick the checkbox on the first page which says “Add Python 3.9 to PATH”***

## 1.2 Prepare documents

1. Put *“flask\_app”* folder in C-drive.
2. Fill up the information (Roster, Duties, Training, Priority Leave, Public Holiday) in “*information\_excel.xlsx”* accordingly.

***\*Please input the dates in M/DD/YYYY format eg. 2 August 2020 should be inputted as 8/02/2020.***

***\*Please do not rename the sheets.***

1. Open *“Outlook”* application and rename the folder which receives SGForm submission to “*test”* (without the quotation marks).

## 1.3 Launch Web App

1. Open the “*command prompt*”, then copy & paste the following:

cd C:\flask\_app

env\Scripts\activate

set flask\_debug=1

flask run

Text

Description automatically generated

This means that the application is running. If you see an error that says python not found,

refer to [Appendix A](#_Appendix_A:_Python).

1. Open a web browser (Google Chrome) and go to <http://127.0.0.1:5000/>

# 2 Navigate Web App

A screenshot of a video game

Description automatically generated with medium confidence

## 2.1 Home Tab: Generate New Schedule

1. Click on the *“New Schedule”* button to generate a schedule and fill up the necessary details.

***\*For testing, fill up with “August”, “01-08-2020”, “15-08-2020”.***

1. Click on the *“Edit Constraints”* button if you wish to change the constraints used for LP.
2. Click *“Generate”* button and you will be taken to *“Timetable”* tab if all constraints are met.

Graphical user interface, text, application

Description automatically generatedGraphical user interface, text, application, email

Description automatically generated

1. If there is a clash in *“information\_excel.xlsx”*, you will be redirected to the following page instead. If this happens, fix the excel accordingly.

Table

Description automatically generated

1. Go back to the *“home”* tab and re-do step 1-3.

## 2.1 Home Tab: Display Past Schedule

1. Put the CSV of the past schedules (*“scheduleJ.xlsx”* and *“scheduleS.xlsx”*) in *“flask-app”* folder. Refer to section 2.2 step 6 on how to generate the CSV.
2. Click *“Generate”* button and you will be taken to *“Past Timetable”* tab.

## 2.2 Timetable Tab

A picture containing calendar

Description automatically generated

1. Hover over the word in the cell to see the comments from FormSG as a tooltip.
2. Click on the 3-dots to change the remarks. Comments are automatically updated in the tooltip. Otherwise, refresh the page.
3. Click on the word in the cell to change the word eg. Working to Duty. The changes are automatically updated in the cell. Otherwise, refresh the page.
4. Table

   Description automatically generatedGraphical user interface, text, application, chat or text message

   Description automatically generatedGraphical user interface, text, application, chat or text message

   Description automatically generatedAfter making all the changes in step 3, click on the *“Validate”* button to check if the changes fulfil the constraints. A pop-up will appear to point out the unmet constraints, if any.
5. Click on the *“Download as PDF”* button to download the schedules as PDF. Check *“flask-app”* folder for the PDF (*“schedule\_J\_pdf.pdf”* and *“schedule\_S\_pdf.pdf”*).
6. Click on the *“Export as CSV”* button to download the schedules as CSV, if you want to display it in the web app in the future. Check *“flask-app”* folder for the CSV (*“scheduleJ.xlsx”* and *“scheduleS.xlsx”*).

## A picture containing graphical user interface Description automatically generated2.3 Calls Tab

1. Click on the *“Download as PDF”* button to download the call summary as PDF. Check *“flask-app”* folder for the PDF (*“call\_J\_pdf.pdf”*).

## 2.4 ICU Duties Tab

Graphical user interface, text

Description automatically generated

1. Fill up the *“First Doctor”, “Second Doctor”, “Third Doctor”, “Fourth Doctor”* textboxes with the names of the 4 doctors who will be rotated in the ICU for the month, then click on the *“Confirm Doctors”* button.

*\*If any of the names are changed after clicking on the “Confirm Doctors” button, please refresh the page before proceeding.*

1. Click on the dropdown list to assign one of the 4 doctors to the date.
2. Click on the *“Download as PDF”* button to download the ICU duties as PDF. Check *“flask-app”* folder for the PDF (*“ICU\_1\_pdf.pdf”* and *“ICU\_2\_pdf.pdf”*).

## 2.5 Points Tab

A picture containing calendar

Description automatically generated

1. Click on the *“Download as PDF”* button to download the points summary as PDF. Check *“flask-app”* folder for the PDF (*“points\_J\_pdf.pdf”* and *“points\_S\_pdf.pdf”*).

# 3 Appendix A: Python Not Found Error

1. Graphical user interface, text, application

   Description automatically generatedType *“python”* in the search bar and click on *“Open file location”*.
2. Right click on *“Python 3.9 (64-bit)”* and select *“Open file location”*

A screenshot of a computer

Description automatically generated with medium confidence

1. Copy the path.

Graphical user interface, text, application

Description automatically generated

1. Type *“Envi”* in the search bar and click on *“Edit the system environment variables”.*

Graphical user interface, application

Description automatically generated

1. Click on *“Environment Variables”*

Graphical user interface, text, application, email

Description automatically generated

1. Graphical user interface, text, application

   Description automatically generatedClick on *“Path”* , then *“Edit…”* (do step 6-8 for both the top & bottom “Path”)

1. Graphical user interface, text

   Description automatically generatedClick on *“New”* and paste the path from step 3. **Eg. C:\Program Files\Python39**
2. Click on *“New”* and paste the path from step 3 again. This time add *“\Scripts”* at the back. **Eg. C:\Program Files\Python39\Scripts**
3. Click *“OK”* and re-do [section 1.3](#_1.3_Launch_Web).