YOSS

Yoga Class Scheduling System

User Manual

Sunday 21st April, 2019

1 System Overview

Yoga Class Scheduling System (YOSS) makes use of **Search** and **Rule-Based Reasoning**, to assign yoga masters based on their available time slots and skill sets, yoga class, and yoga room to time slots. As YOSS allows to upload new data, it should be applicable to almost all studios for A * yoga.

The primary target audience of our system are Asia Square Branch, A * yoga studio. However, our system can also very much be utilized by other branches or even, other studios as a tool for planning and scheduling.

By using the default dataset provided by the system, YOSS will be able to analyze and generate a weekly yoga class schedule with assigned yoga master, room and timeslots. In other way, system users can upload latest data into the system to get updated schedule.

2 Supported browsers

2.1 Mobile devices

It supports the latest versions of each major platform's default browsers. Note that proxy browsers (such as Opera Mini, Opera Mobile's Turbo mode, UC Browser Mini, Amazon Silk) are not supported

	Chrome	Firefox	Safari	Android Browser & WebView	Microsoft Edge
Android	Supported	Supported	N/A	Android v5.0+ supported	Supported
iOS	Supported	Supported	Supported	N/A	Supported
Windows 10 Mobile	N/A	N/A	N/A	N/A	Supported

Table 1: Mobile Devices Support

2.2 Desktop browsers

The latest versions of most desktop browsers are supported.

	Chrome	Firefox	Internet Explorer	Microsoft Edge	Opera	Safari
Mac	Supported	Supported	N/A	N/A	Supported	Supported
Windows	Supported	Supported	Supported, IE10+	Supported	Supported	Not supported

Table 2: Desktop Browser Support

3 Deployment

Our system is deployed by Django, which is a Python-based free and open-source web framework. To run the system successfully, some basic packages are required with the latest version of Python 3 (i.e. Python 3.7.2).

Packages:
- Pandas
- Django
- Requests

Once the running environment is ready, please open the system folder in terminal, and run the command python3 manage.py runserver. You should see the following output on the command line:

```
Performing system checks...

System check identified no issues (0 silenced).

You have unapplied migrations; your app may not work properly
until they are applied.
Run 'python manage.py migrate' to apply them.

February 28, 2019 - 15:50:53
Django version 2.1, using settings 'mysite.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CONTROL-C.
```

Then you can go to the web browser and input URL "http://127.0.0.1:8000/" to use YOSS.

4 Procedure
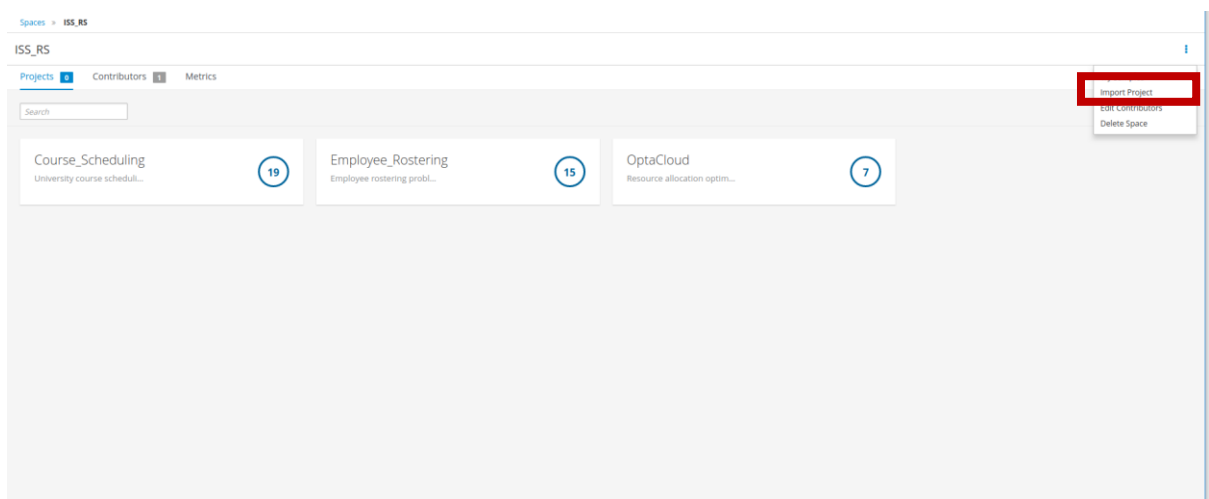
Start KIE Workbench
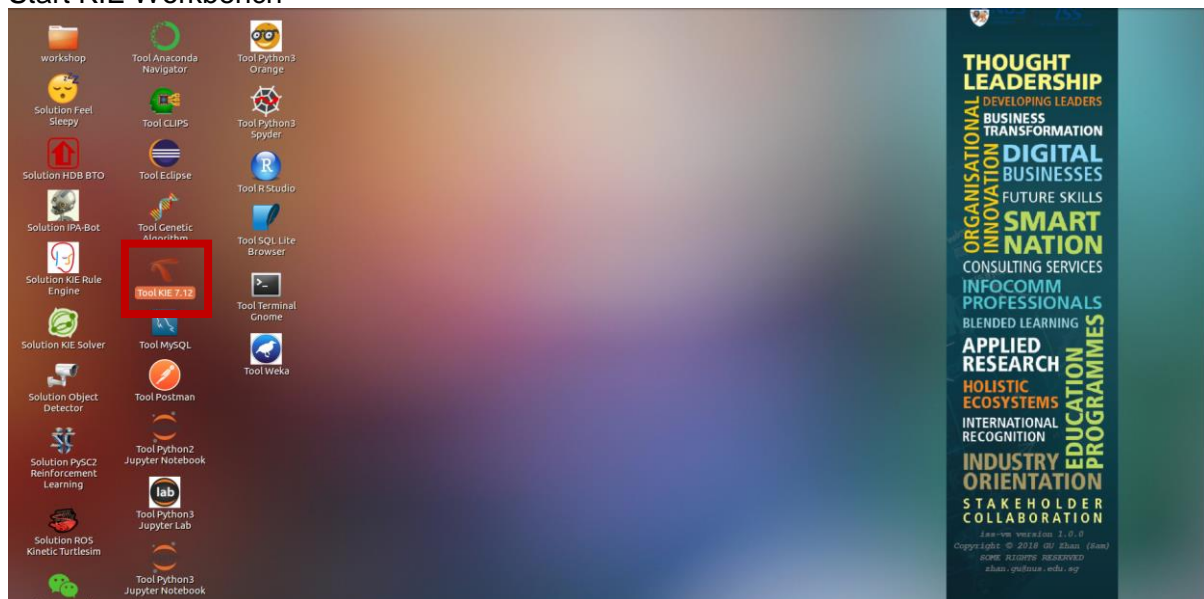
Sign into KIE Workbench as ID: wbadmin PW: wbadmin
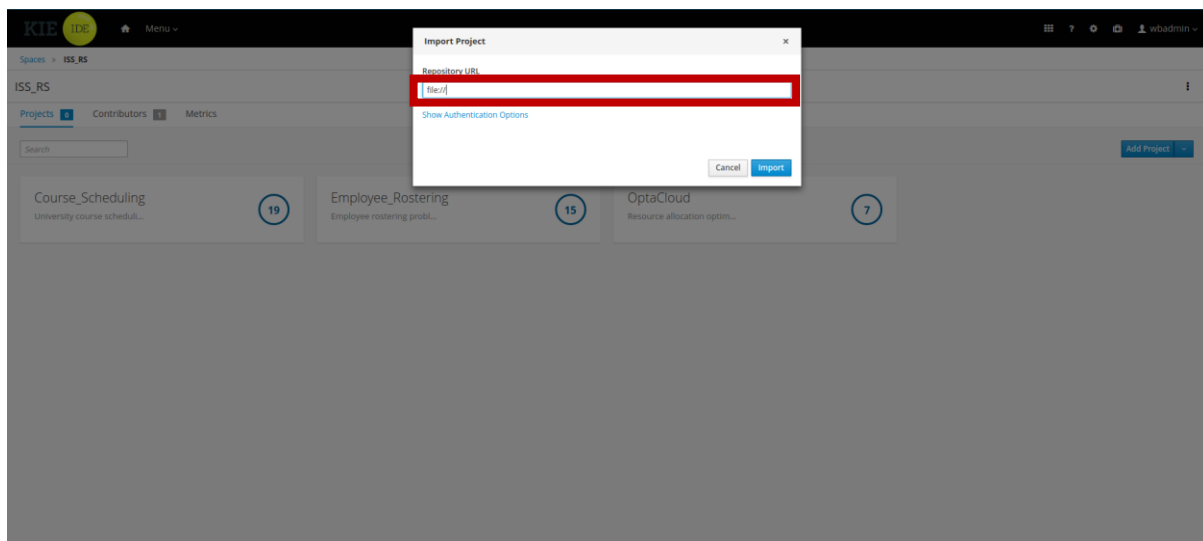(required as the django API request utilizes wbadmin/wbadmin for authentication)
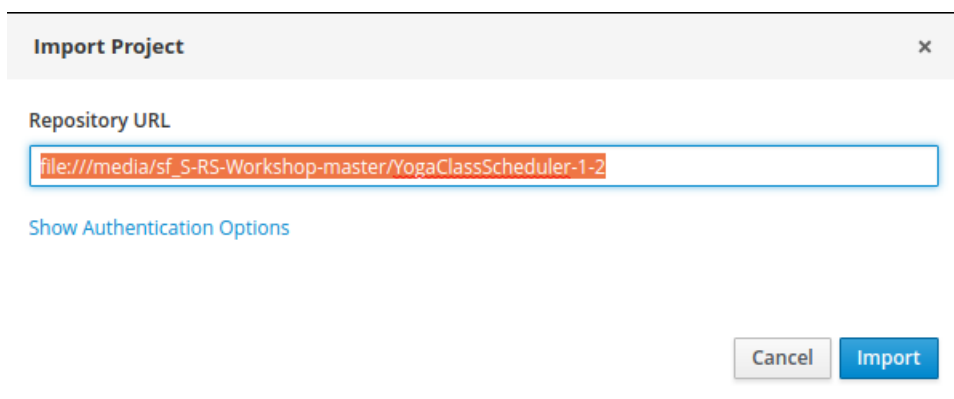

Unzip YogaClassScheduler1-2.

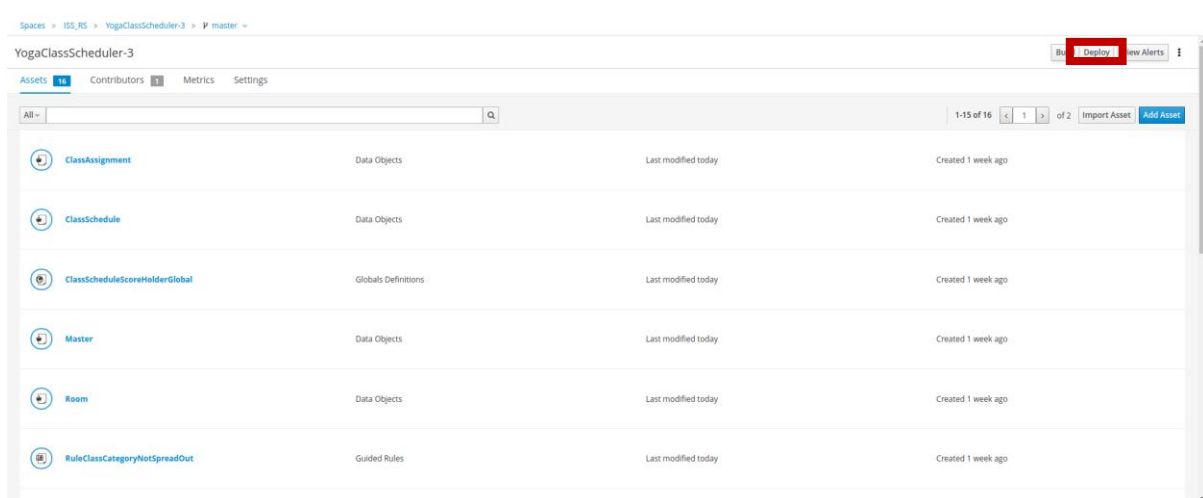Open KIE Workbench, import YogaClasScheduler1-2

Ensure you type file://<filepath_to_YogaClassScheduler1-2_folder>/YogaClassScheduler1-2
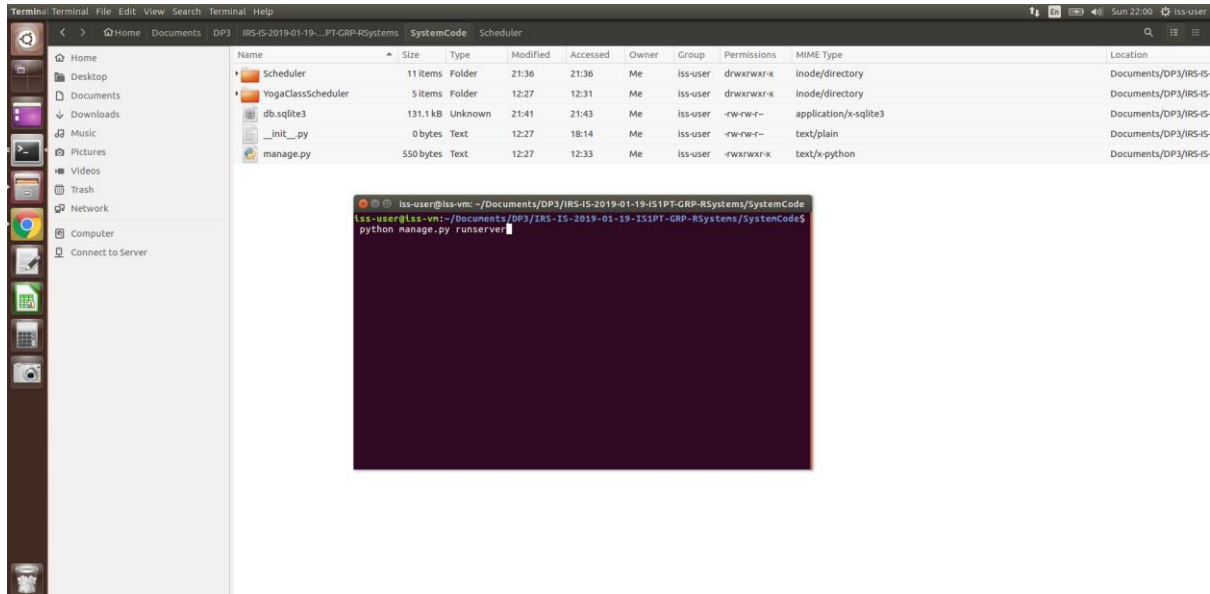

For example:

Deploy the YogaClassScheduler-3 Project

Good job! You've finished starting up the KIE Server!
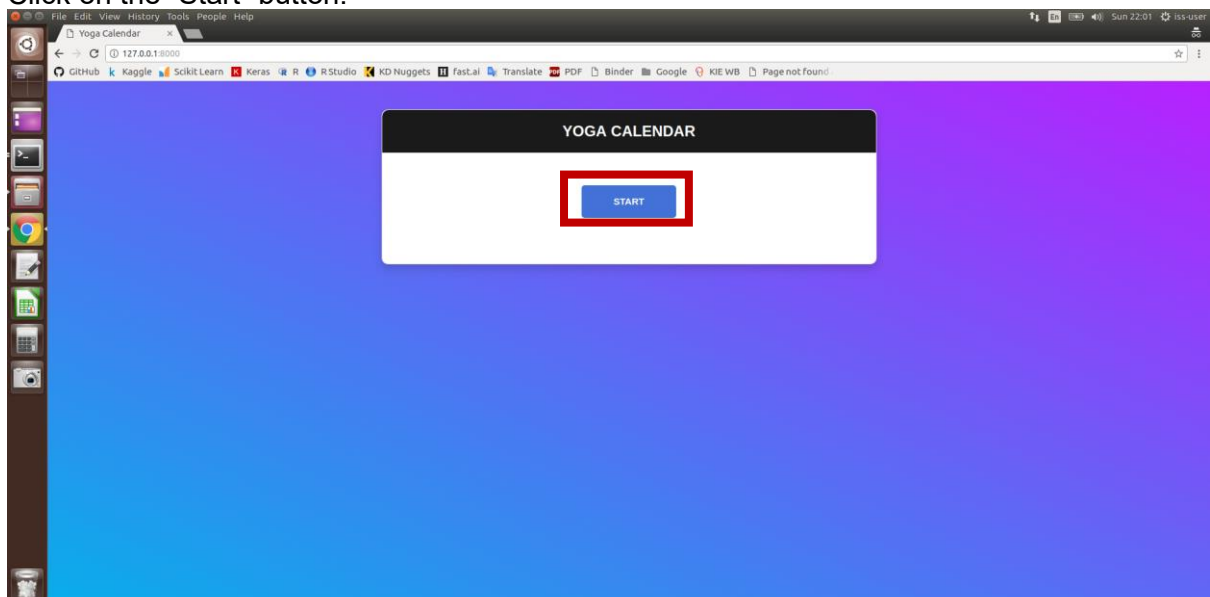
5 Using the system

Open up the Terminal console and set your current working directory to be "./IRS-RS-2019-03-09-IS1PT-GRP-YOS/SystemCode".
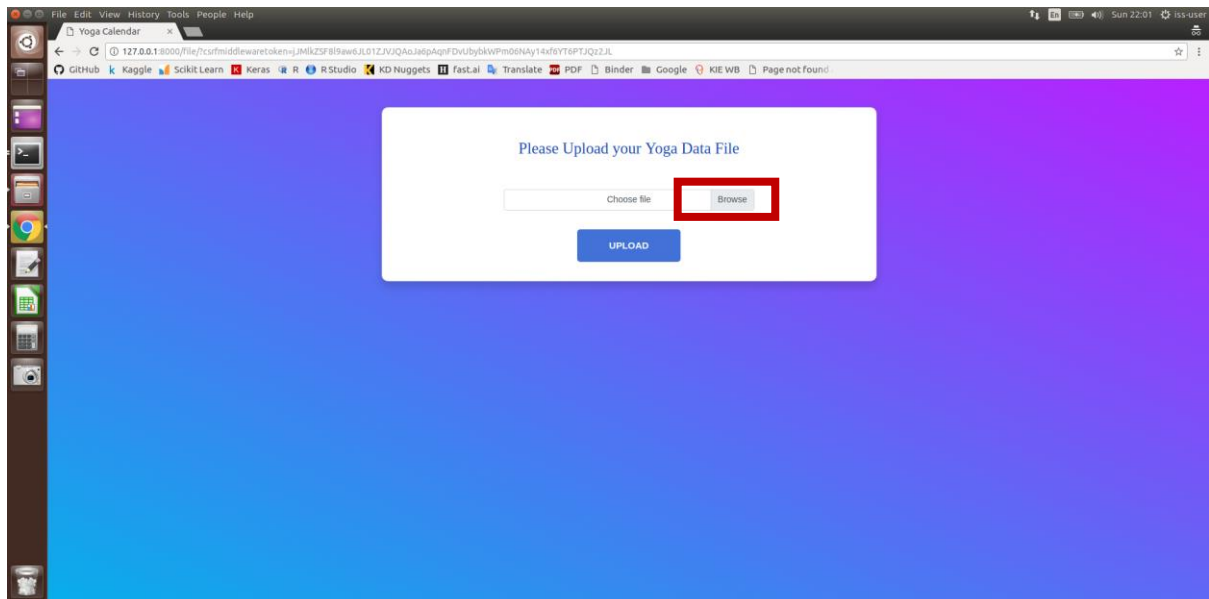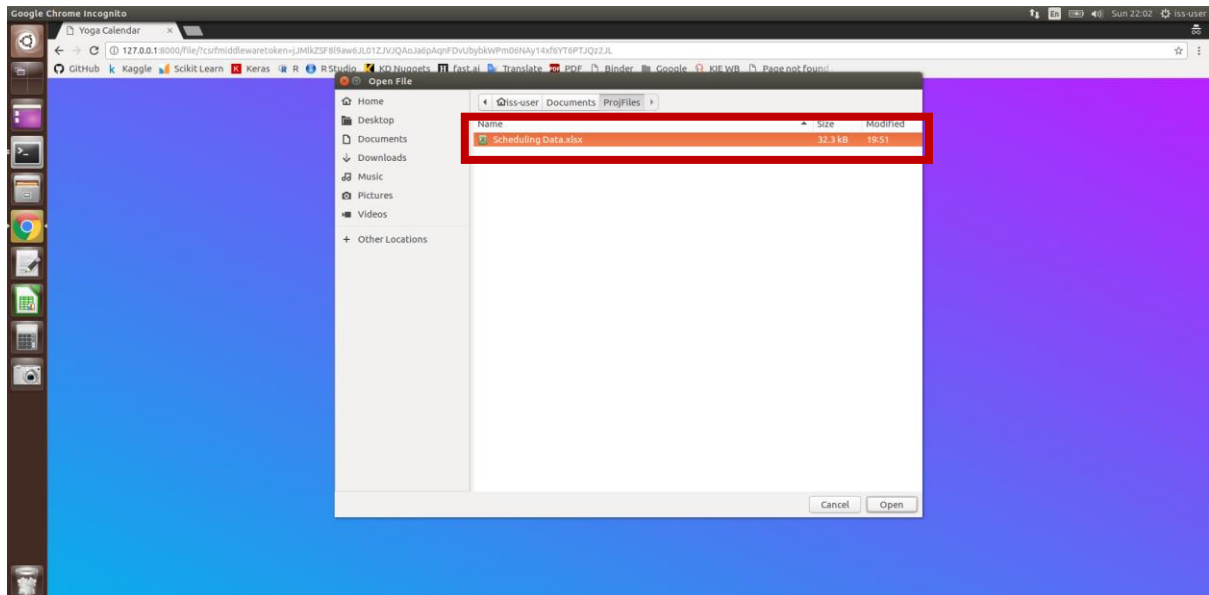
Type in the console: python manage.py runserver

Open up your preferred browser and go to the URL "http://127.0.0.1:8000/" as shown below. Click on the "Start" button.
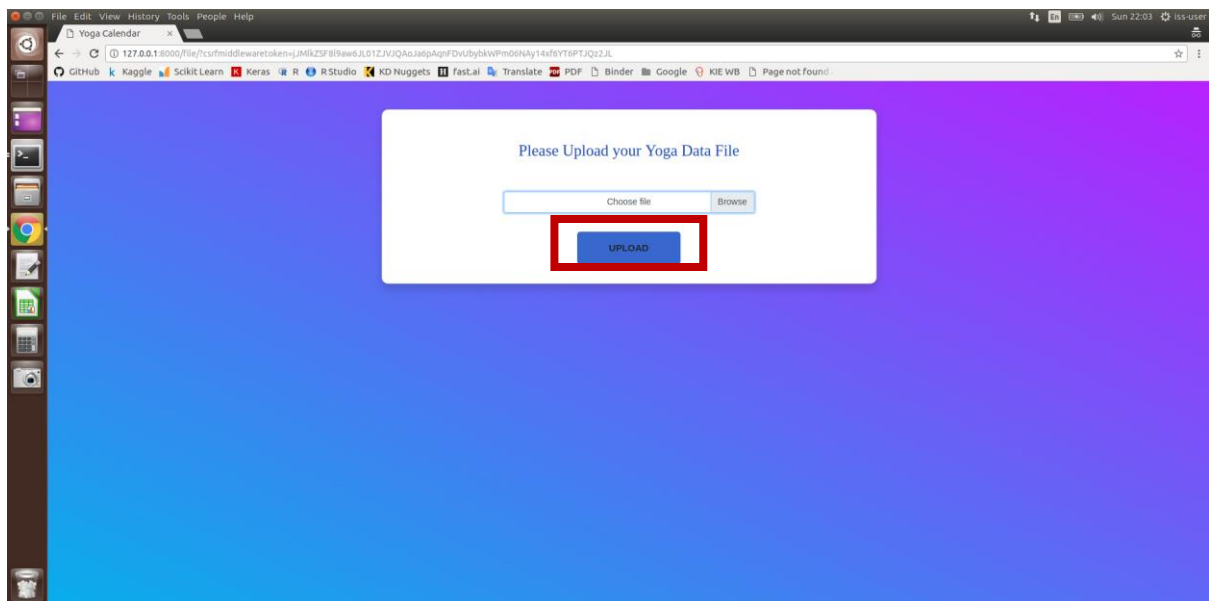

Click on the "Browse" button to select the Data Set excel file.
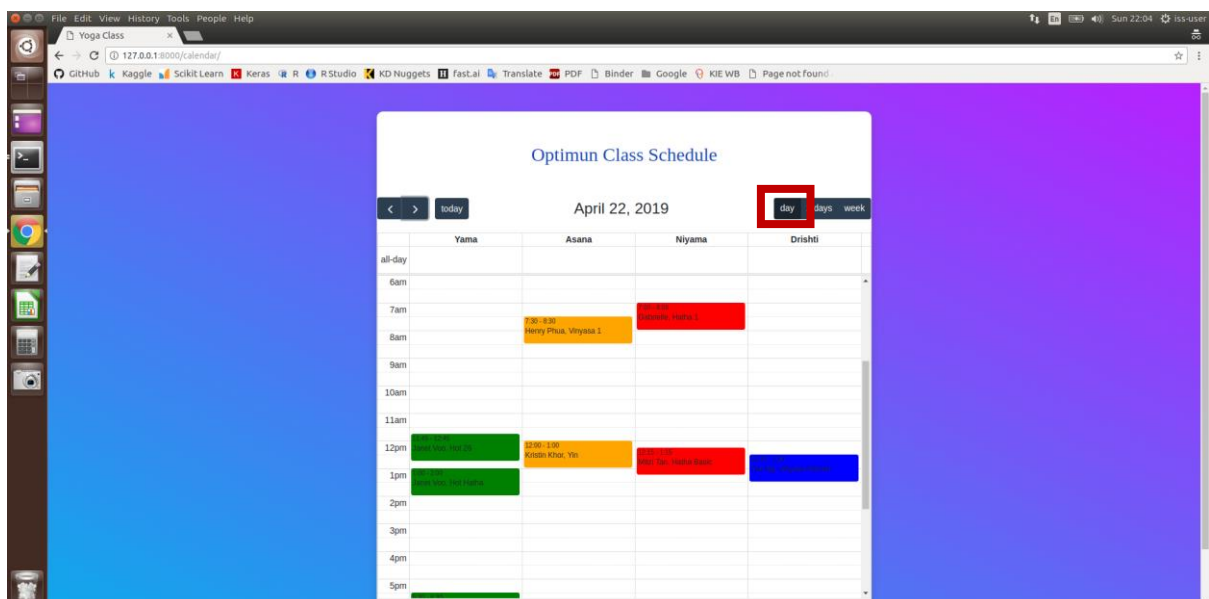
Select the Data Set excel file and click on the "Open" button.

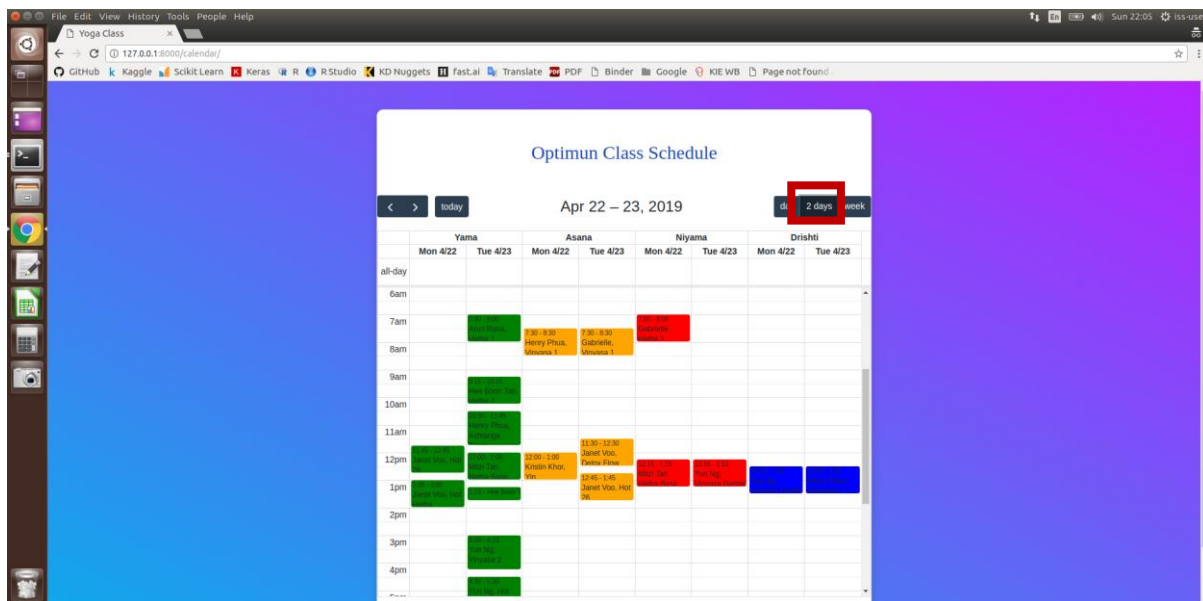Click on the "Upload" button to start the solving process.

After a while, the calendar page will appear together with the solution. The default setting is the single day view. Views can be selected at the top right of the screen.

The view shown below is for the "2 days" view setting.

The view shown below is for the "week" view setting.