How to launch project?

Step1: Start Ubuntu 20.04 real-time kernel which is in advanced settings in grub menu.
Step2: Turn on the Franka Emika's computer and make sure the internet cable plug in between Franka Emika's computer and your computer.
Step3: Run Firefox browser then go *__https://10.0.0.2__* , firstly you must open joints brake then you must click Activate FCI all these settings are in right side menu.
Step4: Now, enter the these commands on different terminals;

To launch robot control;
cd ~/franka_ros2
source devel/setup.bash
roslaunch franka_control franka_control.launch robot_ip:=10.0.0.2

To launch moveit;
cd ~/panda_chessmate/FrankaRos
source devel/setup.bash
roslaunch panda_movit_config move_group.launch arm_id:=panda load_gripper:=true

To visualize robot;
rviz
File > Open Config > Home > panda_demo.rviz

To launch camera;
roslaunch realsense2_camera rs_camera.launch rgb_camera.color_format:=RGB8

To communicate Arduino with ROS;
rosrun rosserial_arduino serial_node.py _port:=/dev/ttyUSB0   (check your port)

Run Python scripts (3 different terminal);
cd ~/pandachess_ws
source devel/setup.bash
rosrun panda_chess motion_controller

cd ~/pandachess_ws
source devel/setup.bash
rosrun panda_chess board_sensor

cd ~/pandachess_ws
source devel/setup.bash
rosrun panda_chess game_controller

ROS Communication between other PC to get chessboard boundary box data;
gedit ~/.bashrc
export ROS_MASTER_URI=http://10.0.0.1:11311
export ROS_IP=10.0.0.4

source home/kovan4/anaconda3/bin/activate
conda activate chessMate
cd ~/chess_ws
source devel/setup.bash
cd ~/chess_ws/src/panda_chess/src
python3 board_server.py