

QUICK OVERVIEW







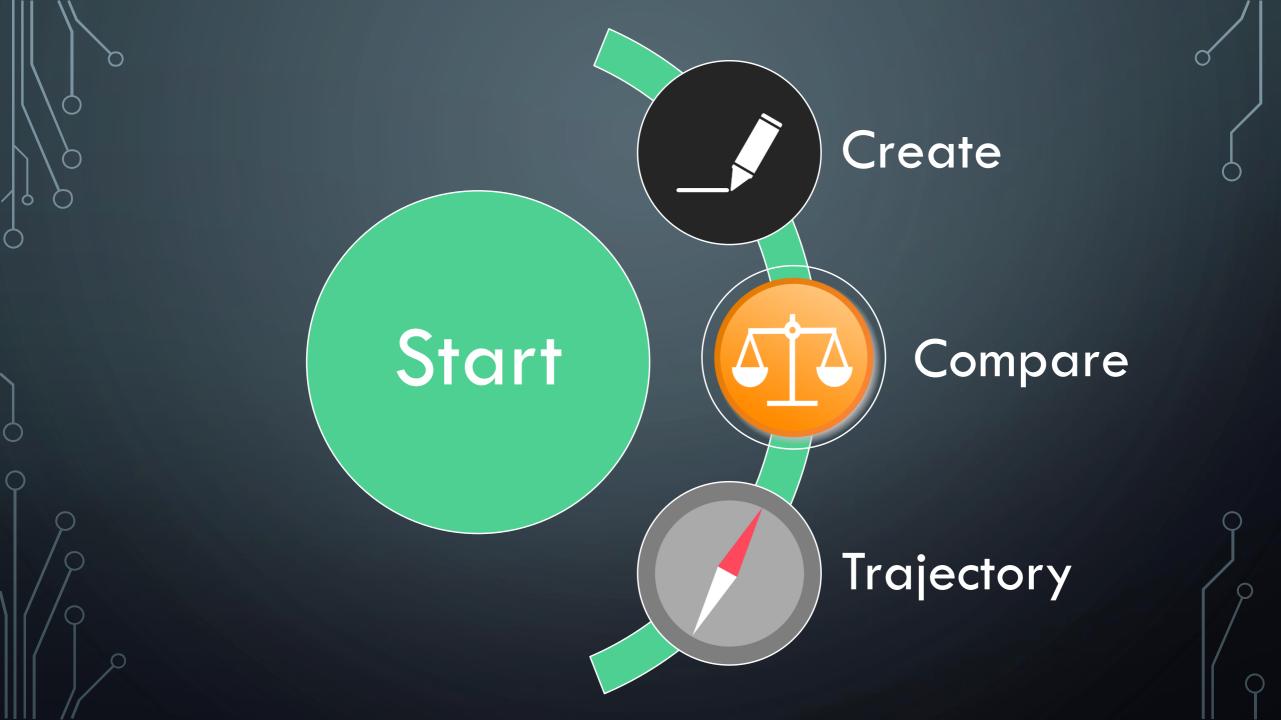


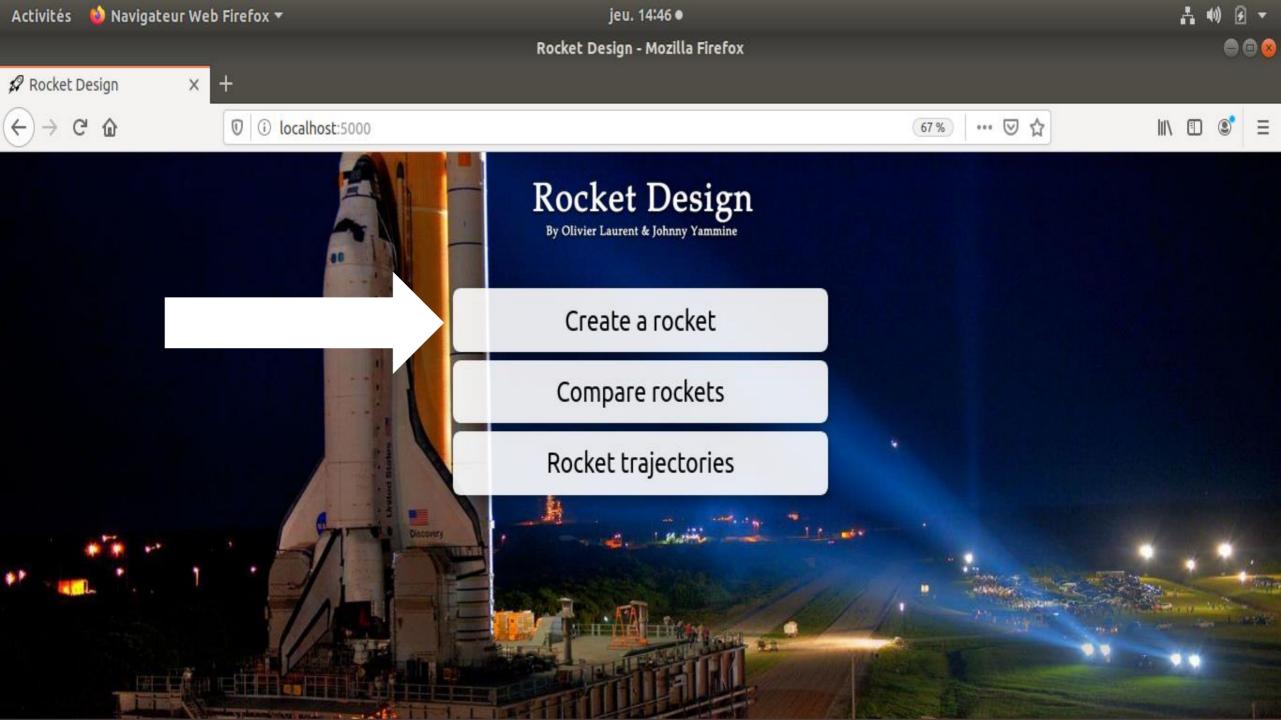


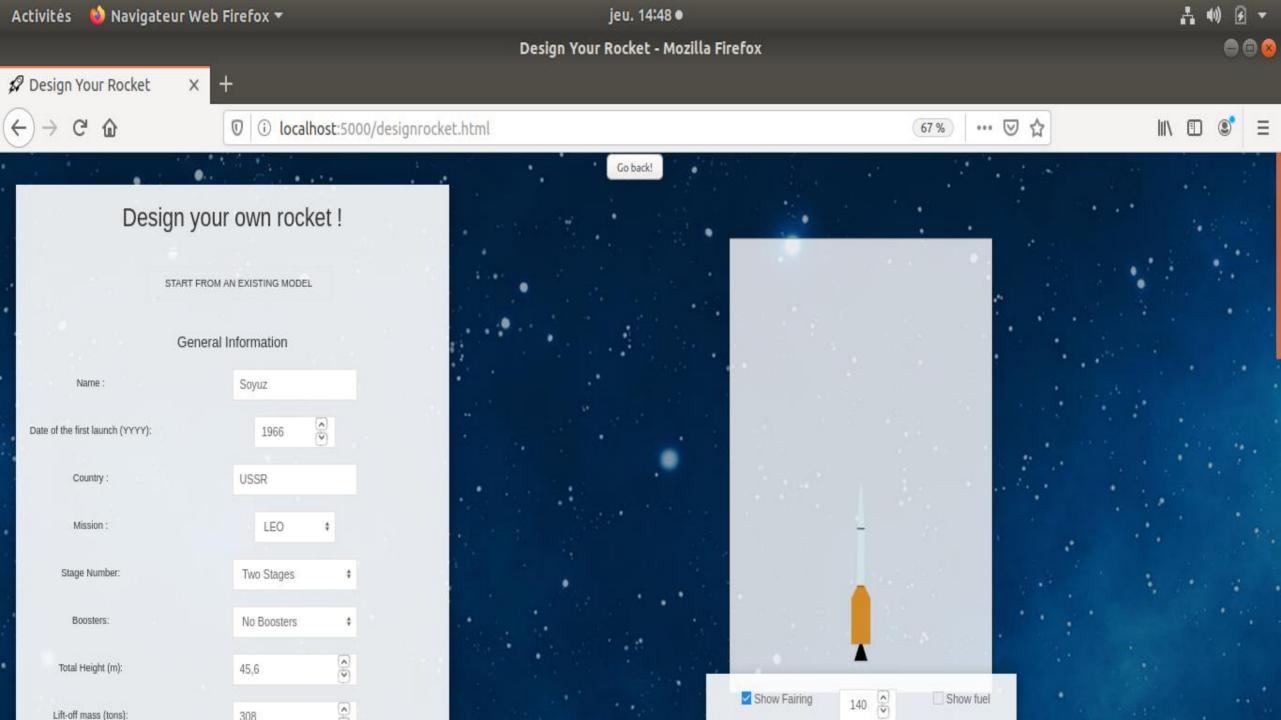


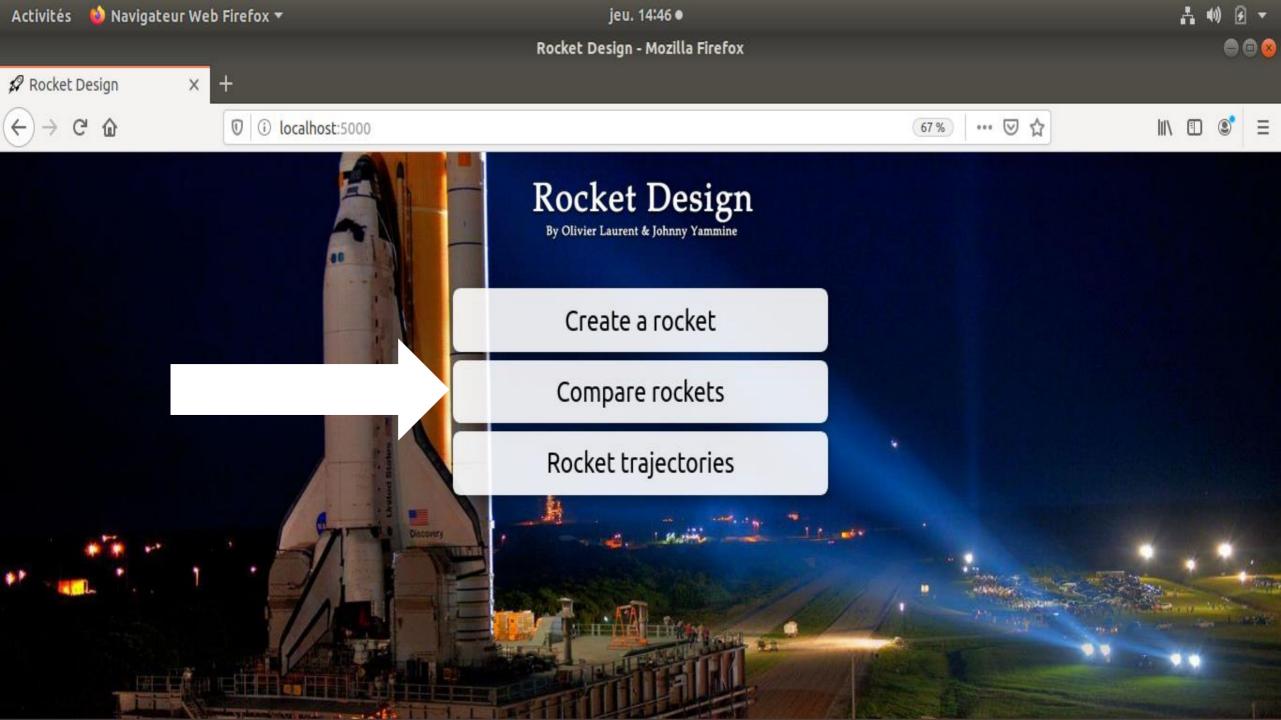
HOW TO LAUNCH THE GUI

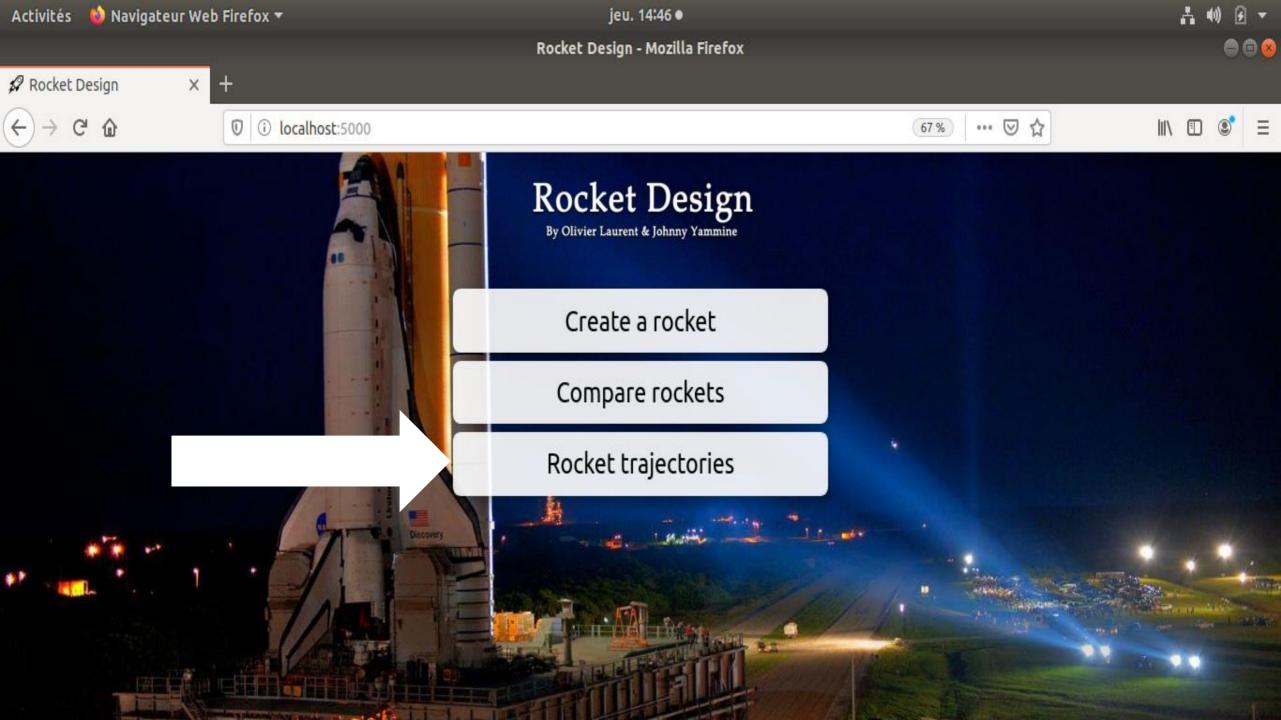
```
johnny@johnny-VirtualBox:~/rocket-design$ export FLASK_APP=app.py
johnny@johnny-VirtualBox:~/rocket-design$ export FLASK_ENV=development
johnny@johnny-VirtualBox:~/rocket-design$ flask run
  * Serving Flask app "app.py" (lazy loading)
  * Environment: development
  * Debug mode: on
  * Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
  * Restarting with stat
  * Debugger is active!
  * Debugger PIN: 897-001-402
```







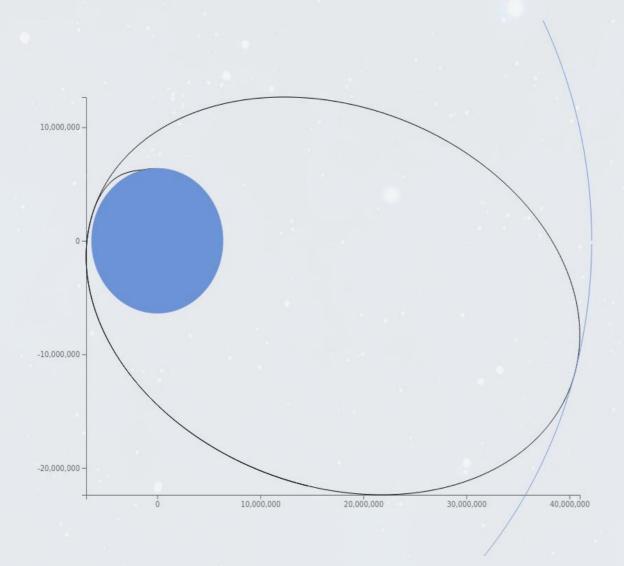




General — Specifications
SLS B1 2021 US Mission: GTO Number of stages: 2 Boosters: true Total Height (m): 111.25 Lift-off Mass (tons): 2650 Payload Mass (kg): 95000
First + Stage Specifications Booster + Specifications Second + Stage Specifications

Mission Panel				
Type of mission:		GTO	*	
Altitude/Semi-major axis (km):		Altitude	8	
Excentricity Target:		Excentricity	8	
Payload mass (kg):		05000		
rayidau mass (kg).		95000	8	
Simulation Panel				
Type of algorithm :		enetic Optimizer	*	
Population Size:			kept every people)	
50	8	2	•	
Number of iterations:		500	ent steps:	
Dimension:			•	
2 ©				
		UNCUL		

```
first quantile : 8.965374903738594e-05 minimum : 6.042162819029482e-08
Betterment |
                                            400/400
                epoch 15 ---
first quantile : 8.196529686123012e-05 minimum : 6.042162819029482e-08
Betterment |
                                              400/400
                 epoch 16 ·
first quantile : 7.014061813627481e-05 minimum : 6.042162819029482e-08
Betterment |
                                              400/400
                 epoch 17
first quantile : 6.20394839374656e-05 minimum : 1.2911375870920836e-08
Betterment |
                                              400/400
              -- epoch 18 ---
first quantile : 5.550570680955381e-05 minimum : 1.2911375870920836e-08
Betterment |
                                            400/400
              -- epoch 19 -
first quantile : 4.868378389747374e-05 minimum : 5.668004319414079e-10
Betterment |
                                              400/400
                 epoch 20 -
first quantile : 3.7849471139330596e-05 minimum : 5.668004319414079e-10
Betterment |
                                              400/400
Finalization |
                                               100/100
Final command: [ 2.57390888 -2.21438831]
Final cost value: 4.6047369185088854e-10
(.python-env) olivier@hmc-olivier:~/Documents/ENSTA1A/rocket-design$
```



HOW FAR COULD WE LAUNCH OUR PROJECT...?