# rocket-space-stuff technical report

Project by Miro Rava and Oleg Lastocichin for SUPSI’s DS&AI 3rd semester.

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## Introduction

## Background

## Requirements

Libraries/languages used for the creation of our own library:

* Python 3.10.\*
* flask==2.2
* pandas==1.5.2
* jupyter==1.0.0
* requests==2.28.2
* pytest==7.2.1
* tk==0.1.0

## Data Gathering

The data was gathered from the public API <https://thespacedevs.com/llapi> , we stored it locally and built our project around it.

The datasets we are going to use are:

* Launches (Event or mission that was done)
* Launchers
* Astronauts

These were gathered using their API, the reasoning around this choice was the usefulness that this data could give and our common interest on such topic.

We cleaned the data and used the columns we’re going to be interested in having without overcomplicating the libraries.

## Web service

The web service was implemented through flask, it has the possibility to use 5 functions for each dataset, the functions are:

* “/{name of the dataset}/search” with “GET” method this permits the user to search in one of the three datasets ex: /astronauts/search?name=a
* “/{name of the dataset}/<column\_name>/<value>” with “GET” method permits to search for an exact value ex /astronauts/id/83
* “/{name of the dataset}”with “POST” method permits to insert in the dataset, the input must be a JSON
* “/{name of the dataset}/<column\_name>/’<value>’” with “DELETE” method permits to delete an exact value from the dataset ex /astronauts/id/740
* “/{name of the dataset}/<column\_name>/’<value>’” with “PUT” method permits to update an exact value in the dataset the input must be a JSON

## Library

## App

## Testing

For the testing we used pytest and we tested the web service, library instead the app was manually tested, nonetheless it may be possible to find some bugs, if so please report them to us such that we can try to fix them.

## Conclusions

## References