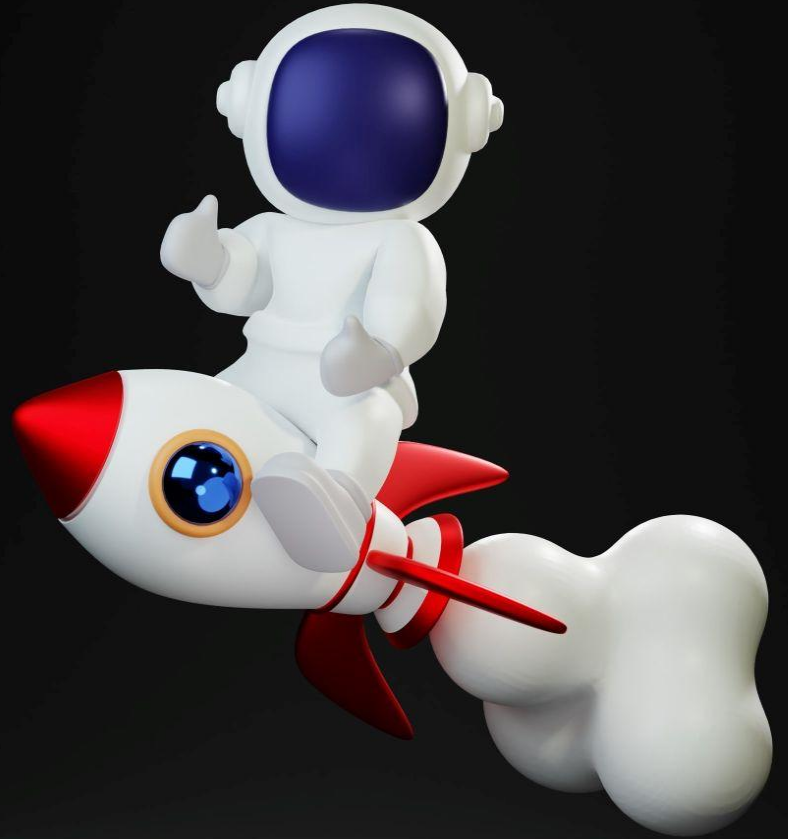


SpaceXhibit

(A Flask Web App)

ITUDB2232

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Our app's premise

- SpaceX has many launches/assets
- Our app makes SpaceX's public API data accessible to the wider public



Users can learn about...

- Launches
- Rockets
- Ships
- Capsules
- Cores
- Payloads
- Launchpads

Ships

These are the ships own and operated by SpaceX. If you see anything wrong or missing, feel free to amend.

Name	Type	Status
A Shortfall of Gravitas	Barge	Deactive
American Champion	Tug	Deactive
American Islander	Cargo	Deactive
American Spirit	Cargo	Deactive

Name	Type	Is Reused	Manufacturers	Mass (kg)	Mass (lb)	Reference Orbit	System	Regime	Editing
ABS-2A	Satellite	No	Boeing	1800.0	3950.0	GTO	geocentric	geostationary	Update
ABS-3A	Satellite	No	Boeing	1954.0	4307.0	GTO	geocentric	geostationary	Update
ANASIS-II	Satellite	No	South Korea	-	-	GEO	geocentric	geosynchronous	Update
ARMADILLO	Satellite	No	University of Texas	4.0	8.8	LEO	geocentric	low-earth	Update
Amos-17	Satellite	No	Boeing Satellite Systems	6500.0	14330.05	GTO	geocentric	geostationary	Update
Amos-6	Satellite	Yes	Israel Aerospace Industries	5500.0	12100.0	GTO	geocentric	geostationary	Update
ArabSat 6A	Satellite	No	Lockheed Martin	6000.0	13227.74	GTO	geocentric	geostationary	Update
AsiaSat 6	Satellite	No	SSL	4428.0	9762.0	GTO	geocentric	geostationary	Update
AsiaSat 8	Satellite	No	SSL	4535.0	9998.0	GTO	geocentric	geostationary	Update
BRICSat 2	Satellite	No	US Naval Academy	1.0	2.2	LEO	geocentric	low-earth	Update
Bangabandhu-1	Satellite	No	Thales Alenia Space	3750.0	8270.0	GTO	geocentric	geostationary	Update
Beresheet	Lander	No	SSL	585.0	1289.7	GTO	geocentric	highly-elliptical	Update

Users can manipulate the data of...

- Launches
- Rockets
- Ships
- Cores
- Payloads

and their various details.

The top screenshot shows a modal titled "Add Rocket" with the following fields:

- Name:
- Type:
- Active: (dropdown menu)
- Country:
- Company:

Buttons:

The bottom screenshot shows a modal titled "Engine Info" displaying a table of engine specifications:

Engine thrust (lbf)	110000
Engine number	1
Engine type	Merlin
Engine version	1C
Engine layout	Single
Engine loss max	0
Engine propellant 1	Liquid Oxygen
Engine propellant 2	RP-1 Kerosene
Engine thrust to weight	96

Buttons:

Application Interface








[Home](#) [Launches](#) [Launchpads](#) [Rockets](#) [Ships](#) [Payloads](#) [Cores](#) [Capsules](#)

You are logged in as 1234.

[Logout](#)

Rockets

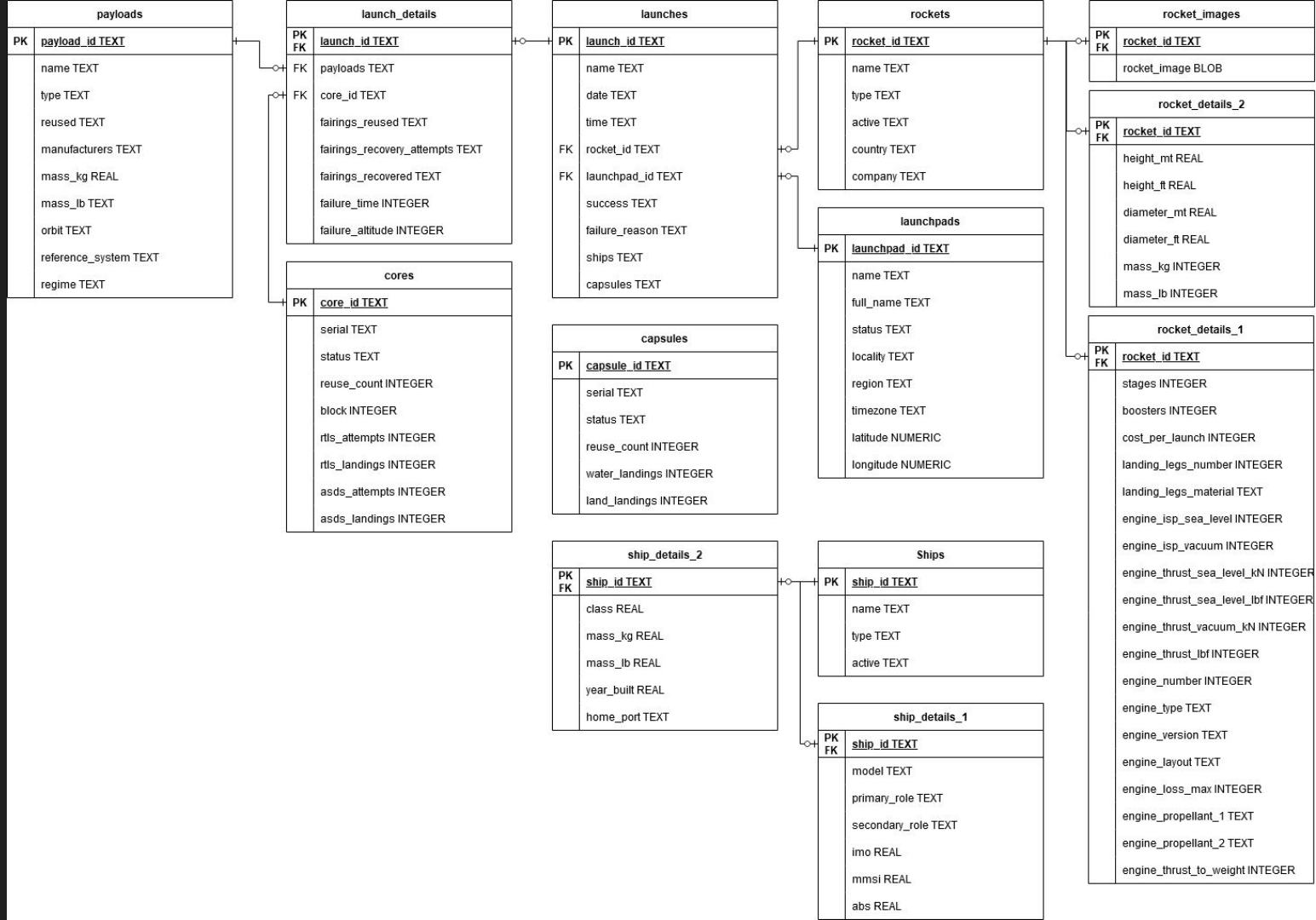
These are the rockets own and operated by SpaceX. If you see anything wrong or missing, feel free to amend.

	Name	Type	Status	Country of Origin	Company	Details		Editing	
	Falcon 1	rocket	Decommissioned	Republic of the Marshall Islands	SpaceX	Engine Info	Measurements	Update	Delete
	Falcon 9	rocket	Active	United States	SpaceX	Engine Info	Measurements	Update	Delete
	Falcon Heavy	rocket	Active	United States	SpaceX	Engine Info	Measurements	Update	Delete
	Starship	rocket	Decommissioned	United States	SpaceX	Engine Info	Measurements	Update	Delete
	Dumdum	splasher	Active	Middle of Nowhere	Xhibition	Add Engine Info	Add Measurements	Update	Delete
	Mars Rider	Flying Saucer	Decommissioned	Republic of Mars	Smace Inc.	Engine Info	Measurements	Update	Delete

[New Rocket](#)

Our DB

- SQLite
- 13 tables
- 6 “main”
- 7 “extra”




Users can log in

Username:

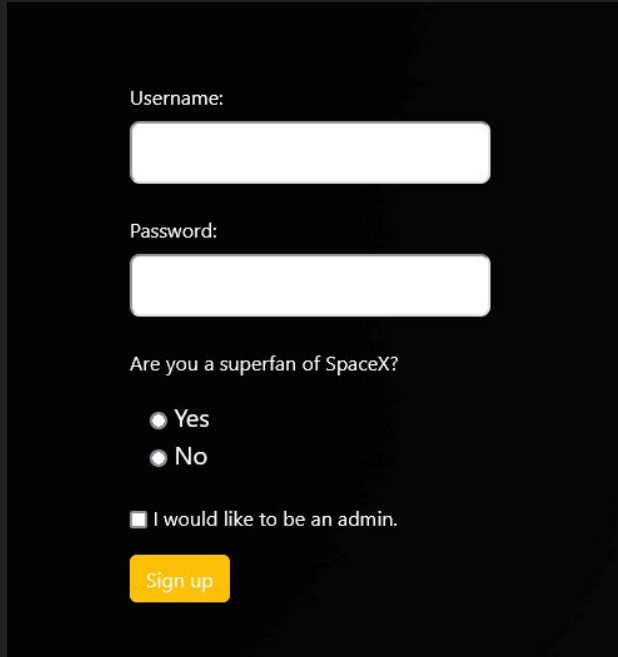
Password:

No account? [Sign up!](#)



- Passwords hashed
- Users can sign up

Users can sign up



Username:

Password:

Are you a superfan of SpaceX?

☒ Yes

☐ No

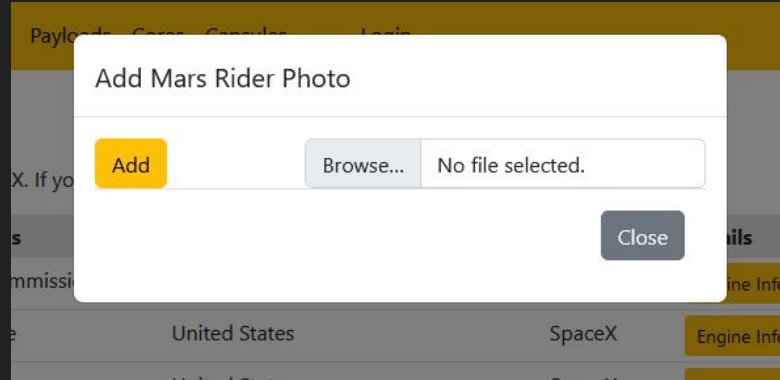
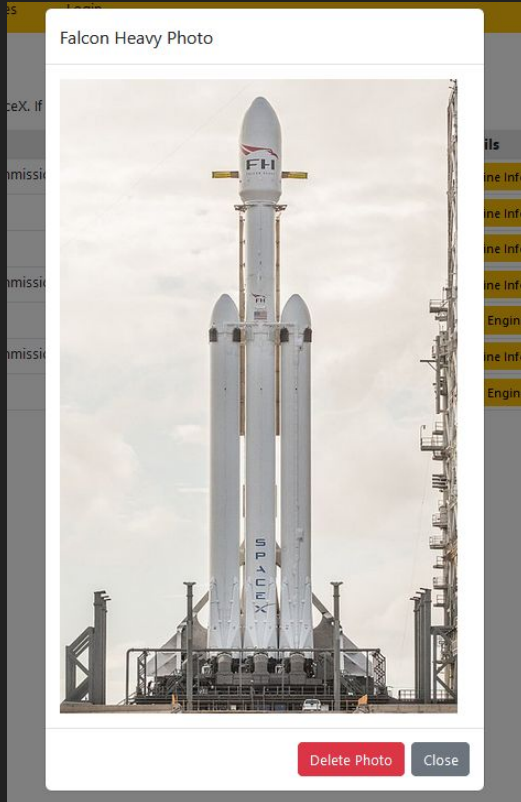
☐ I would like to be an admin.

Sign up

- If a user is a superfan and
- They want to be an admin

They will be made admin!

BLOBs and file uploads



Add Operation Interface

Add Ship

Name:

ITUDB2232

Type:

Cargo

Active:

Active

▼

Add

Close








Add operation is done by sending POST request to the relevant endpoint.

Ships



These are the ships own and operated by SpaceX. If you see anything wrong or missing, feel free to amend.

Name	Type	Status	Details		Editing	
ITUDB2232	Cargo	Active	Details I	Details II	Update	Delete

Delete Operation Interface

Rockets									
These are the rockets own and operated by SpaceX. If you see anything wrong or missing, feel free to amend.									
	Name	Type	Status	Country of Origin	Company	Details		Editing	
	Falcon 1	rocket	Decommissioned	Republic of the Marshall Islands	SpaceX	Engine Info	Measurements	Update	Delete
	Falcon 9	rocket	Active	United States	SpaceX	Engine Info	Measurements	Update	Delete
	Falcon Heavy	rocket	Active	United States	SpaceX	Engine Info	Measurements	Update	Delete
	Starship	rocket	Decommissioned	United States	SpaceX	Engine Info	Measurements	Update	Delete
	Dumdum	splasher	Active	Middle of Nowhere	Xhibition	Add Engine Info	Add Measurements	Update	Delete
	Mars Rider	Flying Saucer	Decommissioned	Republic of Mars	Smace Inc.	Engine Info	Measurements	Update	Delete
	ITUDB2232	Rocket	Active	Turkey	Istanbul Technical University	Add Engine Info	Add Measurements	Update	Delete

Delete operation done by sending GET request, only using relevant ID value.

Rockets									
These are the rockets own and operated by SpaceX. If you see anything wrong or missing, feel free to amend.									
	Name	Type	Status	Country of Origin	Company	Details		Editing	
	Falcon 1	rocket	Decommissioned	Republic of the Marshall Islands	SpaceX	Engine Info	Measurements	Update	Delete
	Falcon 9	rocket	Active	United States	SpaceX	Engine Info	Measurements	Update	Delete
	Falcon Heavy	rocket	Active	United States	SpaceX	Engine Info	Measurements	Update	Delete
	Starship	rocket	Decommissioned	United States	SpaceX	Engine Info	Measurements	Update	Delete
	Dumdum	splasher	Active	Middle of Nowhere	Xhibition	Add Engine Info	Add Measurements	Update	Delete
	Mars Rider	Flying Saucer	Decommissioned	Republic of Mars	Smace Inc.	Engine Info	Measurements	Update	Delete

Update Operation Interface

Update Amos-6

Name:

Amos-6

Type:

Satellite

Reused?:

No

Manufacturers:

Israel Aerospace Industries

Mass (kg):

5500,0

Mass (lb):

12100,0

Orbit:

GTO

Reference System:

geocentric

Regime:

geostationary

Update

Close

Update operation is done by using POST method. The form filled with the relevant data is sent to the users and the changes made by the user are updated in the table.

Name	Type	Is Reused	Manufacturers	Mass (kg)	Mass (lb)	Orbit	Reference System	Regime	Editing
Amos-6	Satellite	Yes	Israel Aerospace Industries	5500.0	12100.0	GTO	geocentric	geostationary	<div>UpdateDelete</div>

Filtering Operation Interface

Search

×

Serial:

Status:

Reuse Count:

Block:

Real Time Locating System Attempts:


Real Time Locating System Landings:

Autonomous Spaceport Drone Ship Attempts:

Autonomous Spaceport Drone Ship Landings:

Close

Filter

 [Home](#) [Launches](#) [Launchpads](#) [Rockets](#) [Ships](#) [Payloads](#) [Cores](#) [Capsules](#) You are logged in as username. [Logout](#)

Cores

This is the cores page, you can make searches or browse the cores in our database!

Add New Core

Filter Core

Serial	Status	Reuse Count	Block	Real Time Locating System Attempts	Real Time Locating System Landings	Autonomous Spaceport Drone Ship Attempts	Autonomous Spaceport Drone Ship Landings	Edit
B1059	lost	5	5	3	3	2	2	<div><div>Delete</div><div>Update</div></div>

Users can search in table by filtering any of the data.

GET and POST methods are used for this operation.

We hope to see you there...

SpaceXhibit™!

Search

You can make extensive searches about space missions conducted by SpaceX with our website! You can get information on:

- ◊ Launches
- ◊ Launchpads
- ◊ Rockets
- ◊ Ships
- ◊ Payloads
- ◊ Cores

Edit

You can change our database with the simple tools we provide you! Here is a list of what you can do:

- ◊ Create entries
- ◊ Update entries
- ◊ Delete entries

Get Started

To get started, click one of the tabs on the navigation bar above, that's all!

