Hypergol

AP4TW Projekt | Jan Sáblík

Popis projektu

- Zobrazení nadcházejících a uplynulých raketových startů
- Detailní informace o jednotlivých startech
- Zobrazení NASASpaceflight novinek díky Twitter for websites
- Jednoduchý, responzivní a přehledný design

Použité technologie

- Laravel
- MariaDB
- TailwindCSS
- Twitter for websites
- JS Countdown

T - 02 Days 19 Hours 19 Minutes 04 Seconds

SpaceX will launch GPS III SV-05 mission on it's Falcon 9 rocket carrying GPS III satellite from SLC-40, CCSFS.

See Details

Upcoming Launches

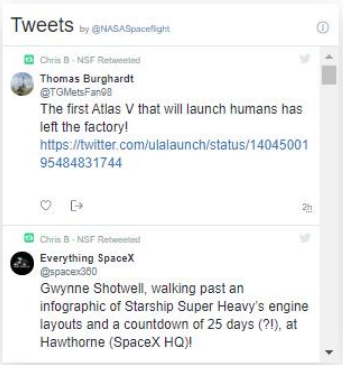
Transporter-2
SpaceX | Falcon 9
SLC-40, CCSFS
24/06/2021 06:02:00

Progress MS-17
Roscosmos | Soyuz 2.1a
Baikonur Cosmodrome, Kazakhstan
30/06/2021 06:01:00

Bars-M
Roscosmos | Soyuz 2.1a
Plesetsk Cosmodrome, Russia
01/07/2021 07:01:00

RASR-3
Rocketlab | Electron
LC-1A, New Zealand
05/07/2021 07:10:00

NASASpaceflight updates



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Launches Rockets Rocket motors Wiki

Upcoming Launches

GPS III SV-05

SpaceX | Falcon 9
SLC-40, CCSFS
17/06/2021 18:06:00

See Details

Transporter-2

SpaceX | Falcon 9
SLC-40, CCSFS
24/06/2021 02:06:00

See Details

Progress MS-17

Roscosmos | Soyuz 2.1a
Baikonur Cosmodrome, Kazakhstan
30/06/2021 01:06:00

See Details

Bars-M

Roscosmos | Soyuz 2.1a
Plesetsk Cosmodrome, Russia
01/07/2021 01:07:00

See Details

RASR-3

Rocketlab | Electron
LC-1A, New Zealand
05/07/2021 10:07:00

See Details

Past Launches

Sirius SXM-8

CRS-22

OneWeb 7

Starlink 28

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Launches Rockets Rocket motors Wiki

T - 02 Days 19 Hours 41 Minutes 18 Seconds

Launch Details

Mission Name	GPS III SV-05
Nation	USA
Launch Provider	SpaceX
Rocket	Falcon 9
Reused booster	Yes
Reused fairings	Yes
Location	SLC-40, CCSFS
Payload	GPS III satellite
Payload Mass	3880 Kg
Launch Date	17/06/2021 18:06:00

Watch Live

About SpaceX

SpaceX designs, manufactures and launches the world's most advanced rockets and spacecraft

Making Humanity Multiplanetary

Building on the achievements of Falcon 9 and Falcon Heavy, SpaceX is working on a next generation of fully reusable launch vehicles that will be the most powerful ever built, capable of carrying humans to Mars and other destinations in the solar system.

Reusability

SpaceX believes a fully and rapidly reusable rocket is the pivotal breakthrough needed to substantially reduce the cost of space access. The majority of the launch cost comes from building the rocket, which historically has flown only once.

HYPERGOL

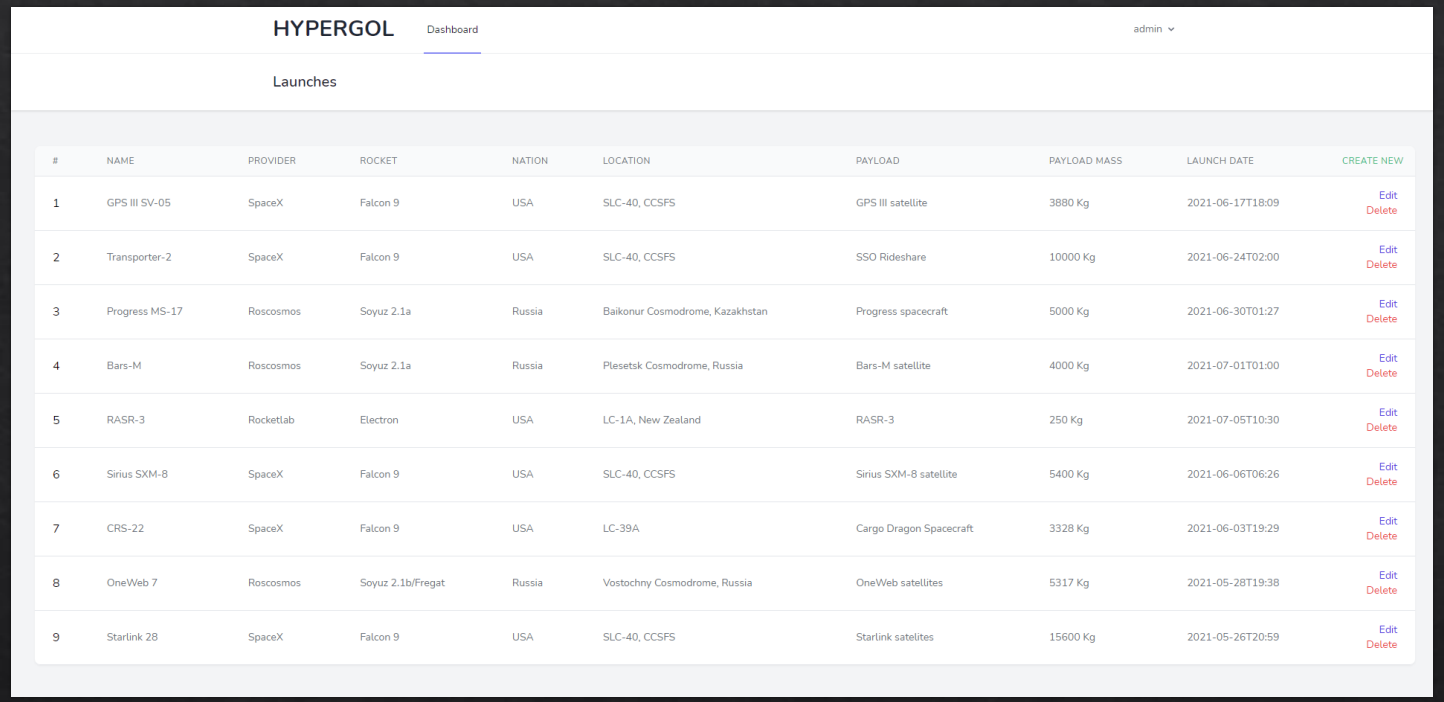
Launches Rockets Rocket motors Statistics

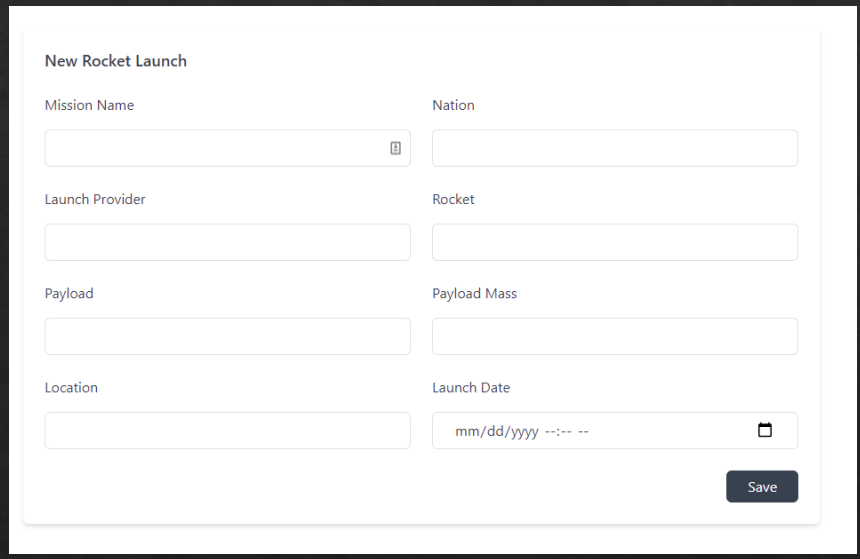
Funkcionalita - databáze

```php
Schema::create('launches', function (Blueprint $table) {
    $table->id();
    $table->string('mission_name');
    $table->string('nation');
    $table->string('launch_provider');
    $table->string('rocket');
    $table->string('payload');
    $table->integer('payload_mass')->nullable();
    $table->string('location');
    $table->dateTime('launch_date');
    $table->mediumText('image')->nullable();
    $table->timestamps();
});
```

	id	mission_name	nation	launch_provider	rocket	payload	payload_mass	location	launch_date	image	created_at	updated_at
Edit Copy Delete	16	GPS III SV-05	USA	SpaceX	Falcon 9	GPS III satellite	3880	SLC-40, CCSFS	2021-06-17 18:09:00	*NULL*	2021-06-12 23:09:45	2021-06-13 14:55:29
Edit Copy Delete	17	Transporter-2	USA	SpaceX	Falcon 9	SSO Rideshare	10000	SLC-40, CCSFS	2021-06-24 02:00:00	*NULL*	2021-06-12 23:17:38	2021-06-12 23:17:38
Edit Copy Delete	18	Progress MS-17	Russia	Roscosmos	Soyuz 2.1a	Progress spacecraft	5000	Baikonur Cosmodrome, Kazakhstan	2021-06-30 01:27:00	*NULL*	2021-06-12 23:20:56	2021-06-12 23:20:56
Edit Copy Delete	19	Bars-M	Russia	Roscosmos	Soyuz 2.1a	Bars-M satellite	4000	Plesetsk Cosmodrome, Russia	2021-07-01 01:00:00	*NULL*	2021-06-12 23:23:58	2021-06-12 23:23:58
Edit Copy Delete	20	RASR-3	USA	Rocketlab	Electron	RASR-3	250	LC-1A, New Zealand	2021-07-05 10:30:00	*NULL*	2021-06-12 23:27:49	2021-06-12 23:27:49
Edit Copy Delete	21	Sirius SXM-8	USA	SpaceX	Falcon 9	Sirius SXM-8 satellite	5400	SLC-40, CCSFS	2021-06-06 06:26:00	*NULL*	2021-06-12 23:31:04	2021-06-12 23:31:04
Edit Copy Delete	22	CRS-22	USA	SpaceX	Falcon 9	Cargo Dragon Spacecraft	3328	LC-39A	2021-06-03 19:29:00	*NULL*	2021-06-12 23:33:52	2021-06-12 23:33:52
Edit Copy Delete	23	OneWeb 7	Russia	Roscosmos	Soyuz 2.1b/Fregat	OneWeb satellites	5317	Vostochny Cosmodrome, Russia	2021-05-28 19:38:00	*NULL*	2021-06-12 23:37:12	2021-06-13 21:19:26
Edit Copy Delete	24	Starlink 28	USA	SpaceX	Falcon 9	Starlink satelites	15600	SLC-40, CCSFS	2021-05-26 20:59:00	*NULL*	2021-06-12 23:39:46	2021-06-12 23:39:46

Funkcionalita - CRUD



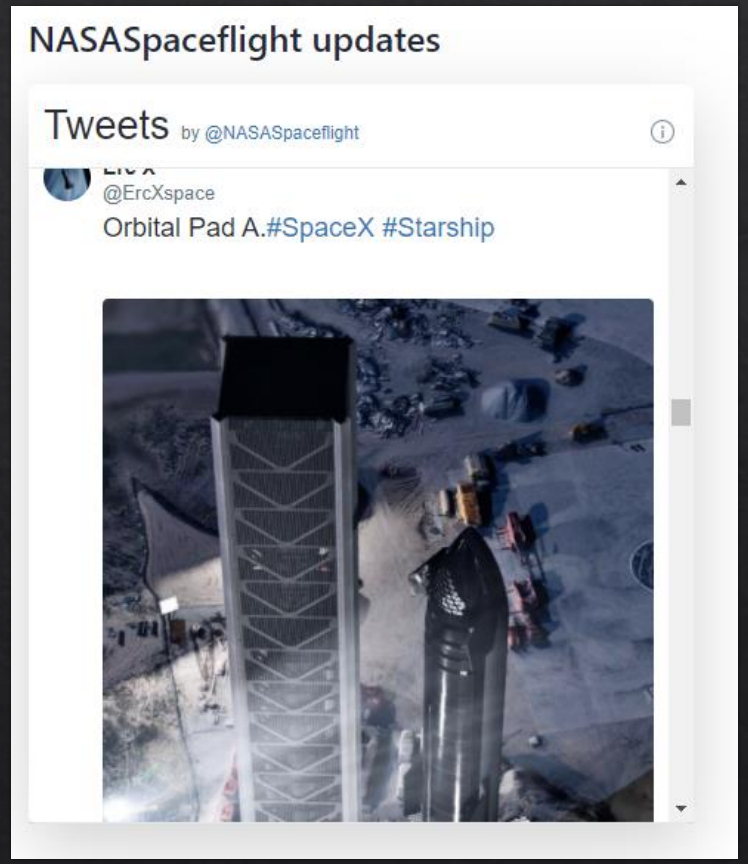


Funkcionalita – Countdown JS


```
<h1 class="text-3xl mr-4 font-medium tracking-wide text-gray-800 lg:text-4xl">
    <script language="JavaScript">
        TargetDate = "{{ $launch->launch_date }}"
        BackColor = "";
        ForeColor = "black";
        CountActive = true;
        CountStepper = -1;
        LeadingZero = true;
        DisplayFormat = "T - %%D%% Days %%H%% Hours %%M%% Minutes %%S%% Seconds";
        FinishMessage = "Happening Now!";
    </script>
    <span>
        <script language="JavaScript" src="https://rhashemian.github.io/js/countdown.js"></script>
    </span>
</h1>
```

Funkcionalita – Twitter for websites

```
<a class="twitter-timeline " data-width="450" data-height="500" data-chrome="nofooter"
data-theme="light" href="https://twitter.com/NASASpaceflight?ref_src=twsrc%5Etfw">Tweets by NASASpaceflight</a>
<script async src="https://platform.twitter.com/widgets.js" charset="utf-8"></script>
```



Závěr

- S čím jsem spokojený
  - Jednoduchá a přehledná stránka
  - Responzivní design
  - Databáze uplynulých startů
- Prostor pro zlepšení
  - Doladění designu
  - Přidání dalších tabulek do databáze (rakety, motory,…)
  - Vyhledávání, filtrace položek