

# 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

#### Tweets by @NASASpaceflight

Chris B · NSF Retweeted

Thomas Burghardt  
@TOMetaFan08

The first Atlas V that will launch humans has left the factory!  
<https://twitter.com/ulalaunch/status/1404500195484831744>

♡ ↗

2h

Chris B · NSF Retweeted

Everything SpaceX  
@space360

Gwynne Shotwell, walking past an infographic of Starship Super Heavy's engine layouts and a countdown of 25 days (?!), at Hawthorne (SpaceX HQ)!

## 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



**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.



# Funkcionalita - databáze

```
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          |
|--------------------------|------|------|--------|----|----------------|--------|-----------------|-------------------|-------------------------|--------------|---------------------------------|---------------------|-------|---------------------|---------------------|
| <input type="checkbox"/> | 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 |
| <input type="checkbox"/> | 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 |
| <input type="checkbox"/> | 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 |
| <input type="checkbox"/> | 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 |
| <input type="checkbox"/> | 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 |
| <input type="checkbox"/> | 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 |
| <input type="checkbox"/> | 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 |
| <input type="checkbox"/> | 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 |
| <input type="checkbox"/> | Edit | Copy | Delete | 24 | Starlink 28    | USA    | SpaceX          | Falcon 9          | Starlink satellites     | 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

| HYPERGOL  |                |           |                   |        |                                 |                         |              |                  |  |
|-----------|----------------|-----------|-------------------|--------|---------------------------------|-------------------------|--------------|------------------|--|
| Dashboard |                |           |                   |        |                                 |                         |              |                  |  |
| admin     |                |           |                   |        |                                 |                         |              |                  |  |
| Launches  |                |           |                   |        |                                 |                         |              |                  |  |
| #         | NAME           | PROVIDER  | ROCKET            | NATION | LOCATION                        | PAYLOAD                 | PAYLOAD MASS | LAUNCH DATE      | CREATE NEW                                     |
| 1         | GPS III SV-05  | SpaceX    | Falcon 9          | USA    | SLC-40, CCSFS                   | GPS III satellite       | 3880 Kg      | 2021-06-17T18:09 | <a href="#">Edit</a><br><a href="#">Delete</a> |
| 2         | Transporter-2  | SpaceX    | Falcon 9          | USA    | SLC-40, CCSFS                   | SSO Rideshare           | 10000 Kg     | 2021-06-24T02:00 | <a href="#">Edit</a><br><a href="#">Delete</a> |
| 3         | Progress MS-17 | Roscosmos | Soyuz 2.1a        | Russia | Baikonur Cosmodrome, Kazakhstan | Progress spacecraft     | 5000 Kg      | 2021-06-30T01:27 | <a href="#">Edit</a><br><a href="#">Delete</a> |
| 4         | Bars-M         | Roscosmos | Soyuz 2.1a        | Russia | Plesetsk Cosmodrome, Russia     | Bars-M satellite        | 4000 Kg      | 2021-07-01T01:00 | <a href="#">Edit</a><br><a href="#">Delete</a> |
| 5         | RASR-3         | Rocketlab | Electron          | USA    | LC-1A, New Zealand              | RASR-3                  | 250 Kg       | 2021-07-05T10:30 | <a href="#">Edit</a><br><a href="#">Delete</a> |
| 6         | Sirius SXM-8   | SpaceX    | Falcon 9          | USA    | SLC-40, CCSFS                   | Sirius SXM-8 satellite  | 5400 Kg      | 2021-06-06T06:26 | <a href="#">Edit</a><br><a href="#">Delete</a> |
| 7         | CRS-22         | SpaceX    | Falcon 9          | USA    | LC-39A                          | Cargo Dragon Spacecraft | 3328 Kg      | 2021-06-03T19:29 | <a href="#">Edit</a><br><a href="#">Delete</a> |
| 8         | OneWeb 7       | Roscosmos | Soyuz 2.1b/Fregat | Russia | Vostochny Cosmodrome, Russia    | OneWeb satellites       | 5317 Kg      | 2021-05-28T19:38 | <a href="#">Edit</a><br><a href="#">Delete</a> |
| 9         | Starlink 28    | SpaceX    | Falcon 9          | USA    | SLC-40, CCSFS                   | Starlink satelites      | 15600 Kg     | 2021-05-26T20:59 | <a href="#">Edit</a><br><a href="#">Delete</a> |

### New Rocket Launch

Mission Name

Nation

Launch Provider

Rocket

Payload

Payload Mass

Location

Launch Date

Save



# Funkcionalita – Countdown JS

**T - 02 Days 20 Hours 05  
Minutes 53 Seconds**

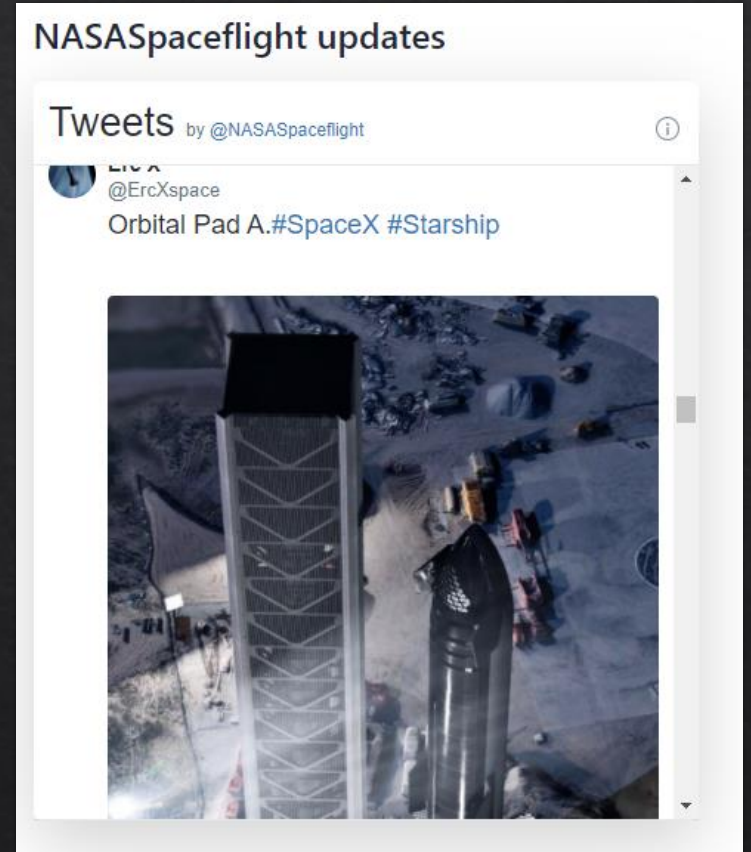
SpaceX will launch GPS III SV-05 mission on it's Falcon 9 rocket carrying GPS III satellite from SLC-40, CCSFS.

[See Details](#)

```
<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