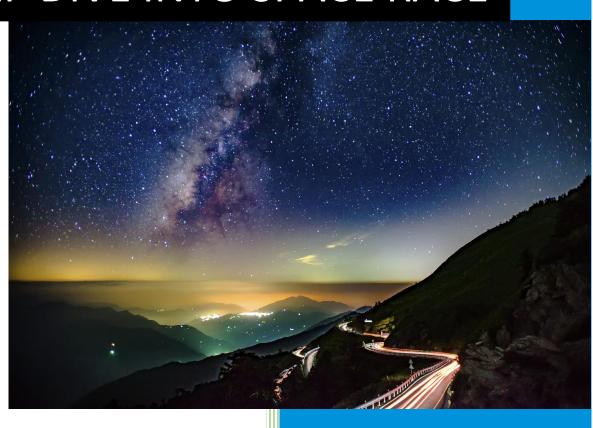
V2.0.0

# DEEP DIVE INTO SPACE RACE



Majdi M. S. Awad

Artemis program - NASA - CSA - ESA - JAXA

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## WHY DDS?

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This application is designed to give everyone an opportunity to go deep into space and get a lot of accurate information from a trusted source.

### **TECHNOLOGIES**

I have designed and developed this application based on the following languages and technologies:

- HTML
- CSS (Bootstrap 5)
- PHP 7.4
- SQL (MySQL as RDBMS)
- Python and C#

## **MODULES**

This application consist of the following 3 main modules:

- Space missions module
- Mars images module
- Star Type Classification

## **CLIENT AND TEAM WORK**

## The Client: CELESTRAK

CELESTRAK is now a 501(c)(3) non-profit and we need your help. CELESTRAK'S mission remains focused on making data and other resources freely available to the space community to facilitate understanding of our orbital environment and how to use it safely and responsibly.

## Team Work:

Project Manager: Majdi Awad | PHP & SQL Developer | Specializing in artificial intelligence and machine learning.

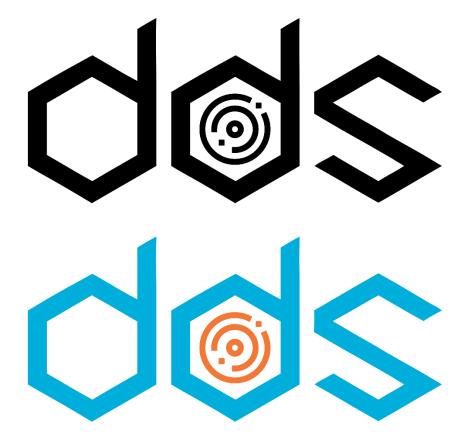
Front-end Designer: Haba Khalifah | Front-end Developer

Data Collection: Saikat Panja

## **BRANDING & GRAPHIC DESIGN**

## Project logo

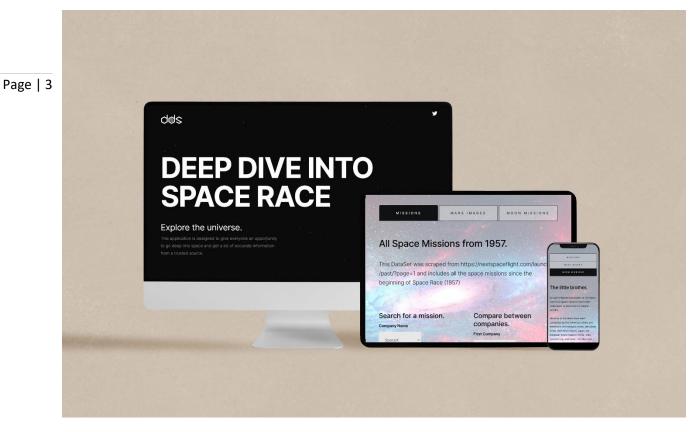
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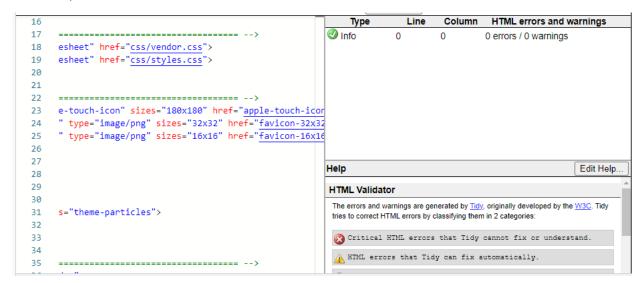
## The graphic device



### FRONT-END DEVELOPMENT



This application designed to be combatable with all devices and screen sizes for more efficiency.



[index.html] The validated page has no errors, no warning found by HTML Tidy.

To show your readers that you have taken the care to create an interoperable Web page, you may add this icon on your page:





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missions\_results.php

The validated page has no errors, no warning found by HTML Tidy.

To show your readers that you have taken the care to create an interoperable Web page, you may add this icon on your page:



This application designed to be combatable with all devices and screen sizes for more efficiency.



compare\_missions.php

The validated page has no errors, no warning found by HTML Tidy.

To show your readers that you have taken the care to create an interoperable Web page, you may add this icon on your page:



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mars\_results.php

The validated page has no errors, no warning found by HTML Tidy.

To show your readers that you have taken the care to create an interoperable Web page, you may add this icon on your page:



This application designed to be combatable with all devices and screen sizes for more efficiency.



moon\_results.php

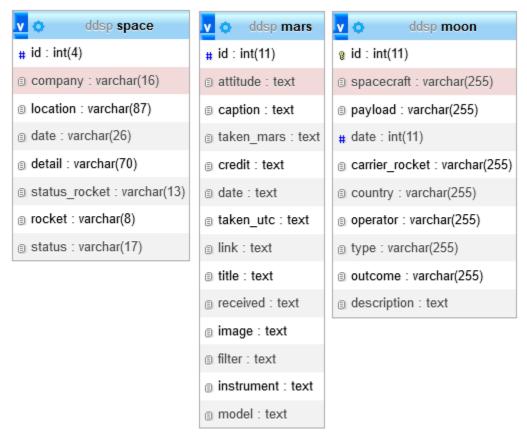
The validated page has no errors, no warning found by HTML Tidy.

To show your readers that you have taken the care to create an interoperable Web page, you may add this icon on your page:



### **DATABASE**





## **STRUCTURE**



Index.html: Contain all search forms

missions\_results.php: connected to [Search for a mission form] and it will present the search results.

compare\_missions.php: connected to [Compare between companies form] and it will present the search results.

mars\_results.php: connected to [Find Images form] and it will present the search results.

moon\_results.php: connected to [The little brother form] and it will present the search results.

### **BACK-END DEVELOPMENT**

I have used PHP and SQL to handle the back-end for this project. You will find [db\_config.php] in folder [php], this file responsible to connect to the database and here is the code:

<?php</pre>

```
Page | 6
```

```
$servername = "localhost";

$username = "root";

$password = "";

$database = "ddsp";

$conn = new mysqli($servername, $username, $password, $database);

if ($conn->connect_error) {

die("connection failed: " . $conn->connect_error);
}

$>
```

In order to create the search, I have used the following method: (an example from missions\_results.php)

- 1- Use the global variable to get the data from the form and save it in a variables:
  - a. \$company = \$\_GET['company'];
  - b. \$status = \$\_GET['status'];
- 2- Write my query to get the data from the table
  - a. \$missions = \$conn->query("\$ELECT \* FROM space WHERE company LIKE '%{\$company}%' AND status LIKE '%{\$status}%");
- 3- Fetch object and save it in a variable
  - a. \$r = \$missions->fetch\_object();
- 4- Check if the query result is more than 0
  - a. if(\$missions->num\_rows) {
- 5- Start a loop to present all the records:
  - a. while(\$r = \$missions->fetch\_object()) {
- 6- Present the results using HTML and PHP as below:

```
<div class="lg-12 missionresults">
```

</div>

```
<h4 style="padding:20px 10px 0px 10px;" class="item-title"><?php echo $r->date; ?></h4>

LOCATION: <?php echo $r->location; ?><br>
<ppe echo $r->detail; ?><br>
ROCKET STATUS: <?php echo $r->status_rocket; ?> | ROCKET: <?php echo $r->rocket; ?>
```

## **CONCLUSION**

It was a simple PHP & SQL website. I have used PHP (OOP), SQL, HTML, and CSS - Bootstrap framework to finalize it.

I have tested the index.html on validator.w3.org and the result was:

## Page | 7

| Nu Html Checker                                                                                                      |                                                           |
|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| is tool is an ongoing experiment in better l                                                                         | ITML checking, and its behavior remains subject to change |
| howing results for uploaded fi                                                                                       | le index.html                                             |
| Checker Input  Show source outline im  Check by file upload v Browse  Uploaded files with xhtml or xht extens  Check |                                                           |
| Document checking completed. I                                                                                       | lo errors or warnings to show.                            |
| sed the HTML parser.                                                                                                 |                                                           |

As mentioned all pages tested using tidy validator and I got no issues or comments.

## **ABOUT ME**

Majdi M. S. Awad

Majdimsawad1988@gmail.com

Phone: +971 54 723 4815

Linked In: <a href="https://www.linkedin.com/in/majdi-masood-4009b11b7/">https://www.linkedin.com/in/majdi-masood-4009b11b7/</a>

GitHub: https://github.com/majdiphp