L13-T6: Displaying SpaceX Crewed Mission Details

SpaceX – the space company is publishing their launch details via public API. Our goal is to create a search system that fetches details of manned missions during a given year and gives honor to the men & women who conquer space one reusable rocket at a time :-P

For this task, we will be using SpaceX's Launches V5 and Crew V4 APIs to get details about them. See the API descriptions here:

- https://github.com/r-spacex/SpaceX-API/blob/master/docs/launches/v5/one.md
- https://github.com/r-spacex/SpaceX-API/blob/master/docs/crew/v4/one.md

1. At the start of the program, ask user for the year to search for.
   a. If the user gives a faulty input, catch the error and keep on asking for proper input
2. Once the year is selected, get the launches for the given year from the API: https://api.spacexdata.com/v5/launches
   a. Construct a list of entries where "date_utc" is in year 2022 AND "success" == True
   b. Filter out all launches where "crew" is an empty list (e.g. [] or len(launch["crew"] == 0)
3. Display the listing of all successful flights in the given year with crew
4. Ask the user input which flight details to show
   a. Show the details of each flight according to the example run details (yes, the formatting also!)
   b. Get the crew details for each crew member on this flight
      i. Use https://api.spacexdata.com/v4/crew/:id (replace :id with the id of the crew member)
   c. Display the crew details with the flight details

Example run:
```
Welcome to Space X manned missions explorer
Please, give the year to search for: random stuff
Faulty input, please try again.
Please, give the year to search for: 2022
Launch information descriptor
We have 3 launches to choose from.
-1) Exit
0) 2022-04-08T15:17:00.000Z - Ax-1
1) 2022-04-27T07:52:00.000Z - Crew-4
2) 2022-10-05T16:00:00.000Z - Crew-5
Select launch to display more information: 2
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Name: Crew-5
Flight Number: 187
Date: 2022-10-05T16:00:00.000Z
Mission: Missing
Mission status: Successful
Launch Wikipedia article: https://en.wikipedia.org/wiki/SpaceX_Crew-5
The launch had a crew of 4
```

```
::CREW MEMBERS::
  Crew member 1
  Commander Nicole Aunapu Mann
  Agency:NASA
  Wikipedia page: https://en.wikipedia.org/wiki/Nicole_Aunapu_Mann

  Crew member 2
  Pilot Josh A. Cassada
  Agency:NASA
  Wikipedia page: https://en.wikipedia.org/wiki/Josh_A._Cassada

  Crew member 3
  Mission Specialist 1 Koichi Wakata
  Agency:JAXA
  Wikipedia page: https://en.wikipedia.org/wiki/Koichi_Wakata

  Crew member 4
  Mission Specialist 2 Anna Kikina
  Agency:Roscosmos
  Wikipedia page: https://en.wikipedia.org/wiki/Anna_Kikina

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Select launch to display more information: 1
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Name: Crew-4
Flight Number: 159
Date: 2022-04-27T07:52:00.000Z
Mission: Missing
Mission status: Successful
Launch Wikipedia article: https://en.wikipedia.org/wiki/SpaceX_Crew-4
The launch had a crew of 4

::CREW MEMBERS::
  Crew member 1
  Commander Kjell Lindgren
  Agency:NASA
  Wikipedia page: https://en.wikipedia.org/wiki/Kjell_N._Lindgren

  Crew member 2
  Pilot Robert Hines
  Agency:NASA
  Wikipedia page: https://en.wikipedia.org/wiki/Robert_Hines_(astronaut)

  Crew member 3
  Mission Specialist 1 Samantha Cristoforetti
  Agency:ESA
  Wikipedia page: https://en.wikipedia.org/wiki/Samantha_Cristoforetti

  Crew member 4
  Mission Specialist 2 Jessica Watkins
  Agency:NASA
  Wikipedia page: https://en.wikipedia.org/wiki/Jessica_Watkins
```

```
Launch information descriptor
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-1) Exit
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1) 2022-04-27T07:52:00.000Z - Crew-4
2) 2022-10-05T16:00:00.000Z - Crew-5
Select launch to display more information: -1
```