TSA Webmaster

Regional Conference - Mechanicsburg, Pennsylvania

2023

Cumberland Valley High School Chapter

Team ID: 2009-901

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The solution to the theme

Website: https://interstellr.eu.org

Source code: https://github.com/bossbadi-web/tsa_webmaster_2023

Research

We settled on the MS Voyager - Space Perspective program to get the most people involved. Although this option does not offer in-depth space tourism, it will allow many people to touch the edge of space from the low G-force flight and low price compared to other companies. As we researched, we learned about the process of the flight and many essential details. The flight is 6 hours and costs “$125,000 per person” (Schneider). Since it is an 8-person flight, it costs $1,000,000 to buy out the whole flight (Foust). The “292-foot-long vessel” is designed to maximize the view (Schneider). As much of the vessel walls are glass as possible to allow for incredible vision in 360 degrees. Space Perspective advertises the possibility of being able to see the northern lights, the boot of Italy, the scale of bodies of water, and much more during the flight. In addition to these possibilities, they have “now sold more than 1,000 [sales]” to date and are planning commercial flights as soon as 2024 and test flights this year (Foust). The shape of the vessel includes “a splash-cone at its base will provides a smooth water landing” (“Ms Voyager”). Military-grade technology is used to find and slightly alter the position of the vessel as needed (Space Coast Daily). In addition to all the conveniences of the flight itself, Space Perspective uses biofuel to reduce its carbon footprint and is targeting being carbon neutral. Our website will provide details such as these and more in a more convenient-to-view format.

Description of Final Design

The goal of this website is to provide information on a space exploration company. Since this is starting to become both more affordable and possible, people are looking at options such as these. The website provides information on all researched material including, but not limited to, promotion, safety, launch, experience, training, vehicles, cost, and planning. The website describes a real opportunity for people to learn about space exploration. The website also offers information about our chapter and school courses.

List of Hardware and Software used

Code editor:

- ➢ Visual Studio Code

Languages:

- ➢ Hyper-Text Markup Language
- ➢ Cascading Style Sheets
- ➢ JavaScript
- ➢ Python

Frameworks:

- ➢ Flask
- ➢ Bootstrap

Version control:

- ➢ GitHub

Hosting:

- ➢ Railway

Plan of Work Log

TECHNOLOGY STUDENT ASSOCIATION PLAN OF WORK LOG				
Date	**Task**	**Time involved**	**Team member responsible** (student initials)	**Comments**
11/9/22 **1.**	Have idea including software and computer language	2 hr	AA DM LS ST	decide on languages, frameworks, roles
11/16/22 **2.**	Idea outline for the website	1 hr	AA DM LS ST	create outline for theme and research involved
12/15/22 **3.**	A functioning version of website	4 hr	DM ST	does not have to be artistic or perfect, all essential webpages are created and accessible
12/17/22 **4.**	Research information to present on the website	1 hr	LS	retrieve information about all required content except for astronaut training
1/10/23 **5.**	Research information to present on the website	30 min	AA	retrieve information about astronaut training
1/16/23 **6.**	Finalize website, finishing touches	1 hr	ST	check for errors on portfolio and website, possible enhancements made

Advisor Name: Mr. Kofmehl Student Initials: AA, DM, LS, ST

Advisor Signature: Jason W. Kofmehl

Student Copyright Checklist

STUDENT COPYRIGHT CHECKLIST *(for students to complete and advisors to verify)*

STUDENT: Answer question 1 below.

1) Does your solution to the competitive event integrate any type of music and/or sound? ☐ YES ☒ NO

   If NO, go to question 2.

   If YES, is the music and/or sound copyrighted? ☐ YES ☐ NO

   If YES, move to question 1A. If NO, move to question 1B.

   1A) Have you asked for author permission to use the music and/or sound in your solution and included that permission (letter/form) in your documentation? If YES, move to question 2. If NO, ask for permission and if permission is granted, include the permission in your documentation.

   1B) Is the music/sound royalty free, or did you create the music/sound yourself? If YES, cite the royalty free music/sound OR your original music/sound properly in your documentation.

CHAPTER ADVISOR: Sign below regarding your student's answer(s) to the use of music/sound in his/her competitive event solution. Even if your student answers "NO" to question 1, please sign below noting that you have evaluated the competitive event solution and the student answered the question(s) accurately.

I, Mr. Kofmehl (chapter advisor), have checked my student's solution and confirm that any use of music/sound is done so with proper permission and is cited correctly in the student's documentation and/or the solution has been found to have no music/sound included.

STUDENT: Answer question 2 below.

2) Does your solution to the competitive event integrate any graphics/videos? ☒ YES ☐ NO

   If NO, go to question 3.

   If YES, is(are) the graphics/videos copyrighted, registered and/or trademarked? ☐ YES ☒ NO

   If YES, move to question 2A. If NO, move to question 2B.

   2A) Have you asked for author permission to use the graphics and/or videos in your solution and included a permission (letter/form) in your documentation for graphic/video used? If YES, move to question 3. If NO, ask for permission and if permission is granted, include the permission in your documentation.

   2B) Is(are) the graphics/videos royalty free, or did you create your own graphic? If YES, cite the royalty free graphics/videos OR your own original graphics/videos properly in your documentation.

CHAPTER ADVISOR: Sign below regarding your student's answer(s) to the use of graphics/videos in his/her competitive event solution. Even if your student answers "NO" to question 2, please sign below noting that you have evaluated the competitive event solution and the student answered the question(s) accurately.

I, Mr. Kofmehl (chapter advisor), have checked my student's solution and confirm that the use of graphics/videos with proper permission and is cited correctly in the student's documentation and/or the solution has been found to have no graphics/videos included.

STUDENT: Answer question 3 below.

3) Does your solution to the competitive event use another's thoughts or research? ☒ YES ☐ NO

   If NO, this is the end of the checklist.

   If YES, have you properly cited other's thoughts or research in your documentation? ☒ YES ☐ NO

   CHAPTER ADVISOR: Sign below regarding your student's answer(s) to having integrated any thoughts/research of others in his/her competitive event solution. Even if your student answers "NO" to question 3, please sign below noting that you have evaluated the competitive event solution and the student answered the question(s) accurately.

   I, Mr. Kofmehl (chapter advisor), have checked my student's solution and confirm that the use of the thoughts/research of others is done so with proper permission and is cited correctly in the student's documentation and/or the solution has been found to have all original thought with no use of other's thoughts/research.

Student Name: Adil Aziz, Drake Ma, Logan Snyder, Shunyu Tang

Chapter Advisor Signature: Jason W. Kofmehl

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