

MVC Controllers - Pair Exercise

Day 2 - Tuesday - Solar System Geek Online Forum

You are developing an online bulletin board web component to SSGeek. Its a general forum posting, so anyone is welcome to join and post without needing to first login.

The application needs to support 2 core functionalities.

1. Provide a page that allows a site user to submit a new post to the bulletin board
2. View all posts on the bulletin board

Your implementation must apply dependency injection and leverage a Test Double to ensure the controller logic is correct.


A database script, an interface, and a data access object has been provided. You will need to implement the details.

Submitting a New Post

Users can navigate to a page on the web application that provides them with a form to submit a new post for a bulletin board.

The page will provide the user with the form to submit:

- Username (required)
- Subject (required)
- Message (required)



Solar System Geek

The Solar System

The Solar System formed 4.6 billion years ago from the gravitational collapse of a giant interstellar molecular cloud. The vast majority of the system's mass is in the Sun, with most of the remaining mass contained in Jupiter. The four smaller inner planets, Mercury, Venus, Earth and Mars, are terrestrial planets, being primarily composed of rock and metal. The four outer planets are giant planets, being substantially more massive than the terrestrials. The two largest, Jupiter and Saturn, are gas giants, being composed mainly of hydrogen and helium; the two outermost planets, Uranus and Neptune, are ice giants, being composed largely of substances with relatively high melting points compared with hydrogen and helium, called ices, such as water, ammonia and methane. All planets have almost circular orbits that lie within a nearly flat disc called the ecliptic.

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New Geek Post

Username


Subject

Message

Viewing a Post

The View Posts page allows users the ability to see any posts that were previously submitted to the web application.

The page should display to the user all of the prior posts. You can use any type of layout that you prefer.



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Solar System Geek Forum

[Post a Message](#)

I Saw Pluto!
by ccastelaz on 10/23/2016 at 9:05:12
Pluto came into view on my telescope last night!

Apollo 13
by JLovell on 10/23/2016 at 8:57:48
Was that movie for real??

Aliens on the Moon
by Neil A. on 10/23/2016 at 8:20:33
Did you know that Neil A. is Alien spelled backwards?

Favorite Movie?
by T_hanks on 10/23/2016 at 8:20:33
My favorite space movie is Armageddon

Any new posts that are submitted from the Submit Post page should show up on the View a Post page.


Day 2 Bonus

Create a form that allows website visitors to sign up to win a prize.

Each visitor needs to provide their name, and answer a space trivia question.

Leverage HTTP POST and the Post-Redirect-Get pattern to

1. Show the user the form
2. Have the user post their answer
3. Redirect the user to the correct action based on the input



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Space Geek Trivia

Enter your name

Who first walked on the moon? ☒ Tom Hanks ☐ Jim Lovell ☐ Neil Armstrong

When the user answers it correctly, they see a Correct! page that confirms their answer.



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Correct!

That's right **Josh**! Neil Armstrong first stepped on the moon on July 20, 1969. You know your space history!

When the user answers incorrectly, they see an Incorrect! page telling them that they are incorrect.



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Incorrect!

That's incorrect! Don't you know your space trivia? You should spend more time studying instead of watching fake space movies **Josh!**