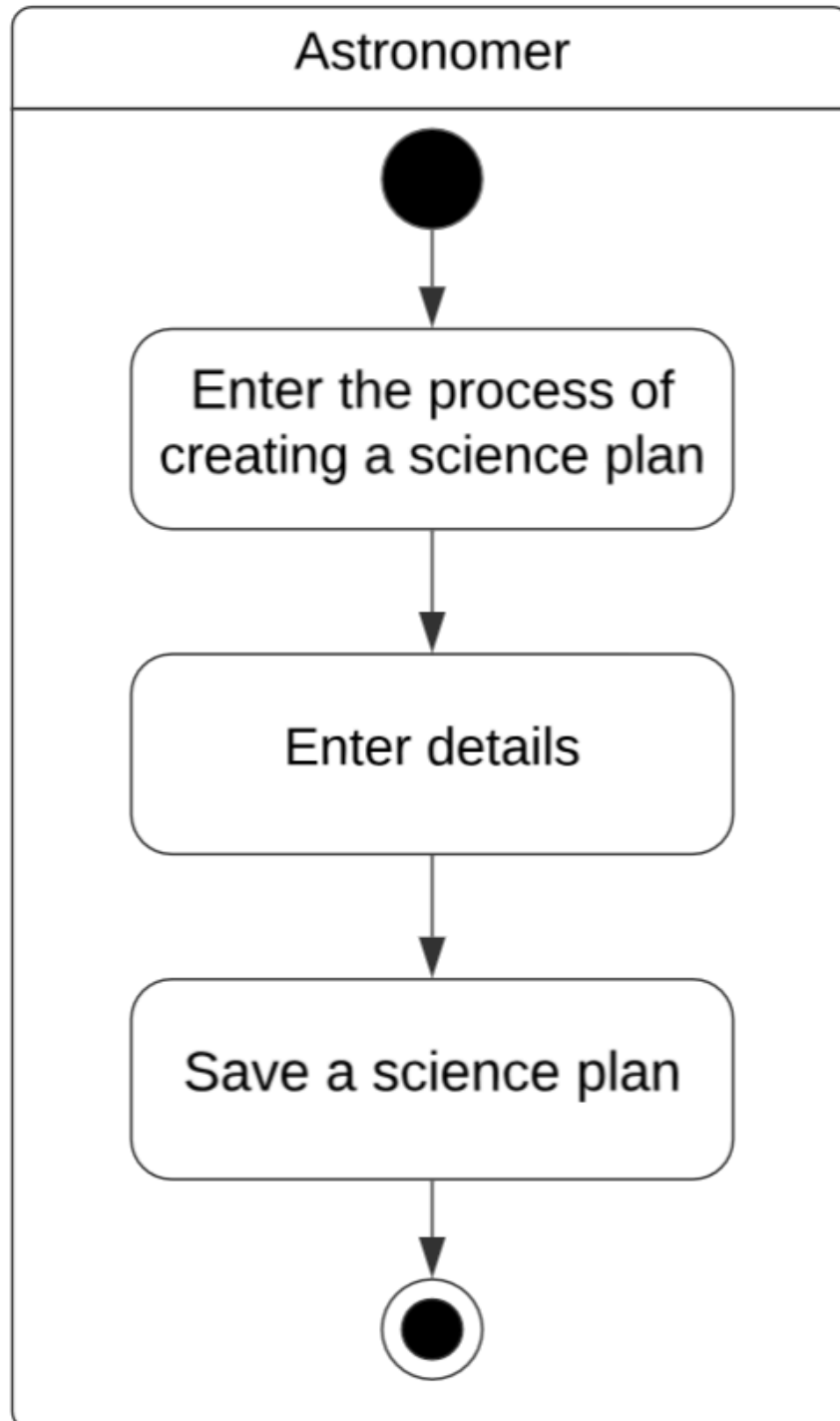


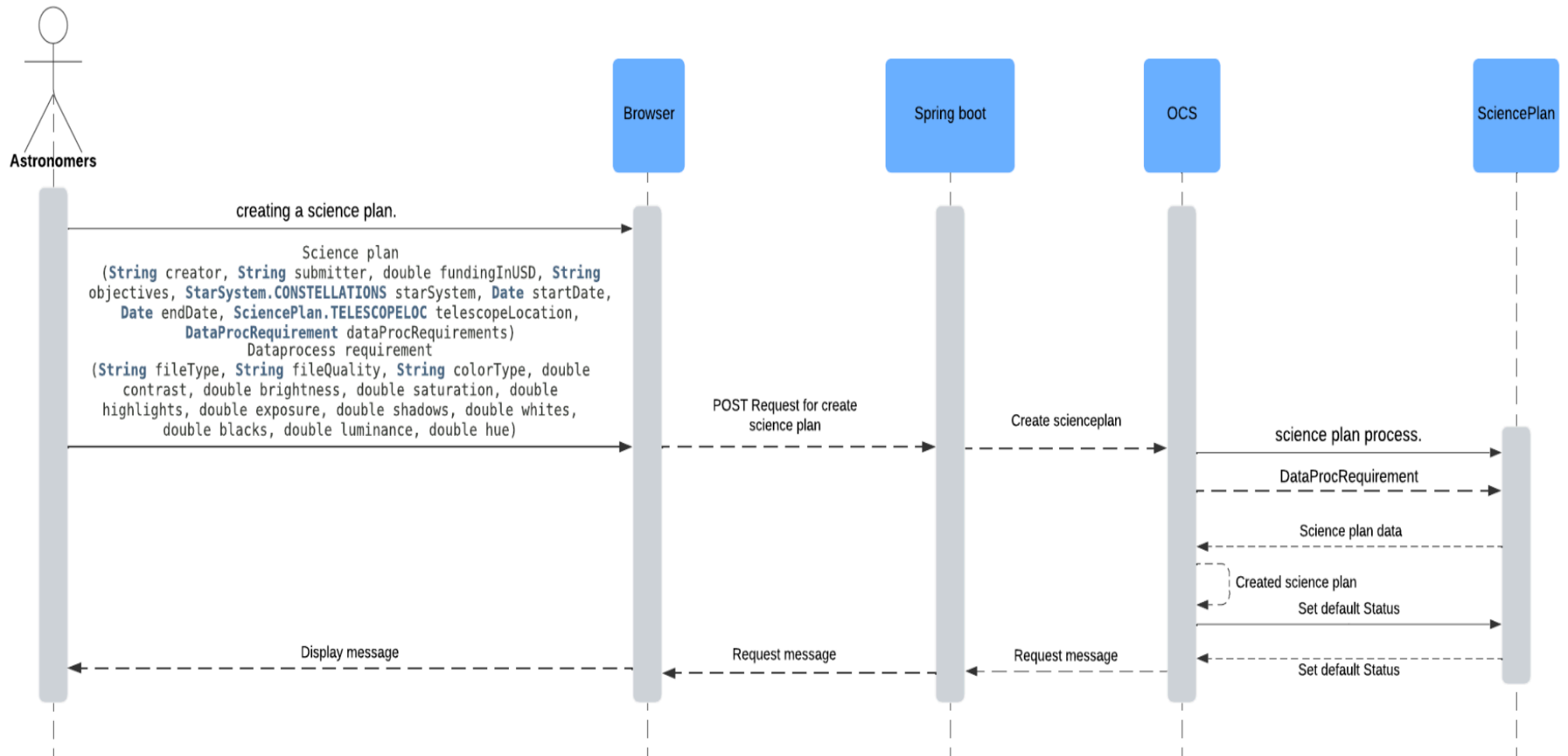
## Create a Science Plan 01

<b>Use Case Name:</b> Create a Science Plan	<b>ID:</b> 01	<b>Importance Level:</b> High
<b>Primary Actor:</b> Astronomers		<b>Use Case Type:</b> Essential
<b>Stakeholders and Interests:</b> <ul style="list-style-type: none"><li>• Astronomers: Create a science plan</li></ul>		
<b>Brief Description:</b> <p>Astronomers create a science plan by outlining the necessary details and required resource allocations for the research project.</p>		
Trigger: Starting a new research project or the need to create a scientific plan. Type: Internal		
<b>Relationships:</b>  <b>Association:</b> Astronomer <b>Include:</b> - <b>Extend:</b> - <b>Generalization:</b> -		
<b>Normal Flow of Events:</b> <ol style="list-style-type: none"><li>1. <b>Astronomers</b> log in to the system.</li><li>2. <b>Astronomers</b> enter the process of creating a science plan.</li><li>3. <b>Astronomers</b> fill in the details and create a science plan.</li></ol>		
<b>Sub flows:</b> -		
<b>Alternate/Exceptional Flow:</b> -		

**Activity diagram “Create Science Plan”**



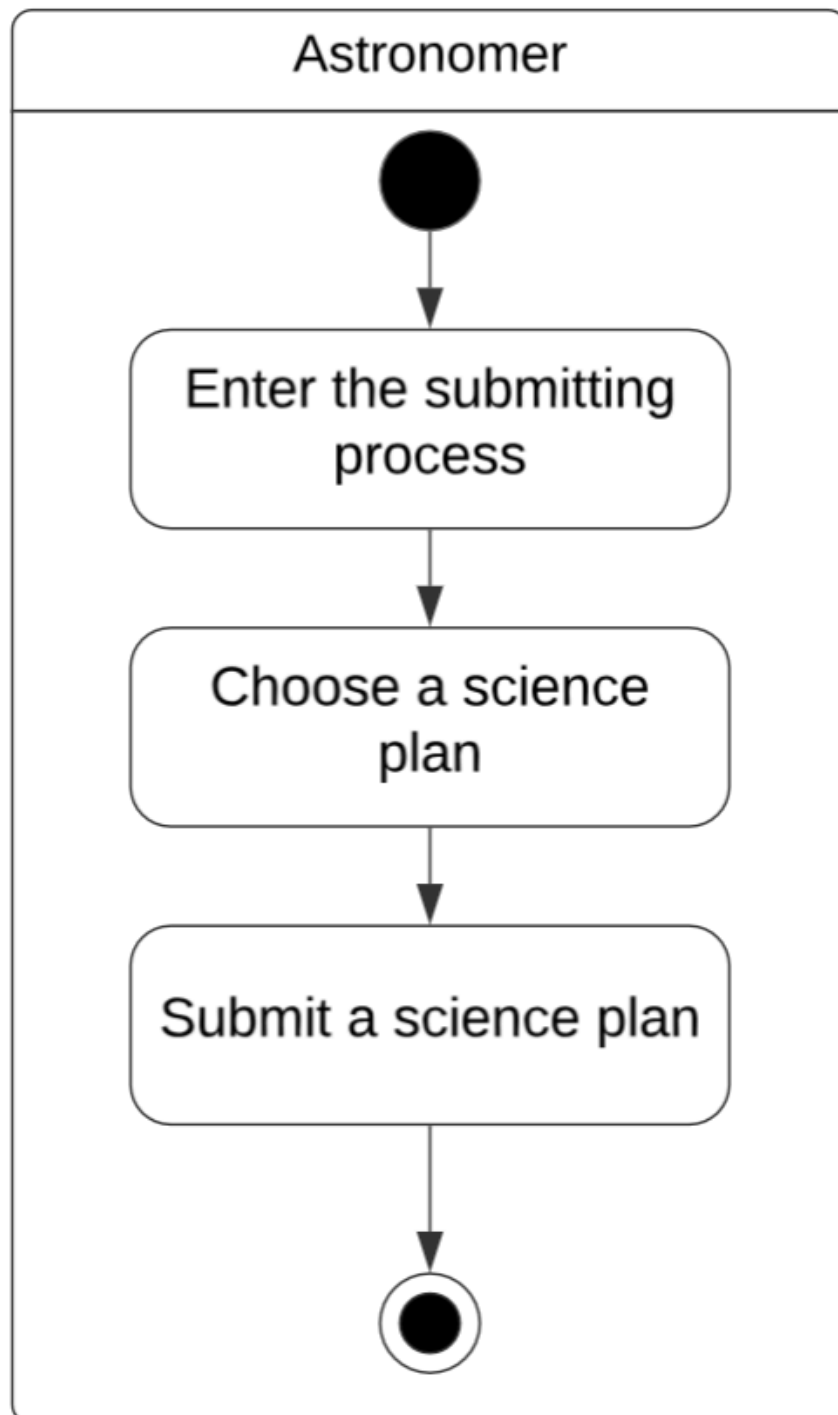
## Sequence diagram “Create Science Plan”



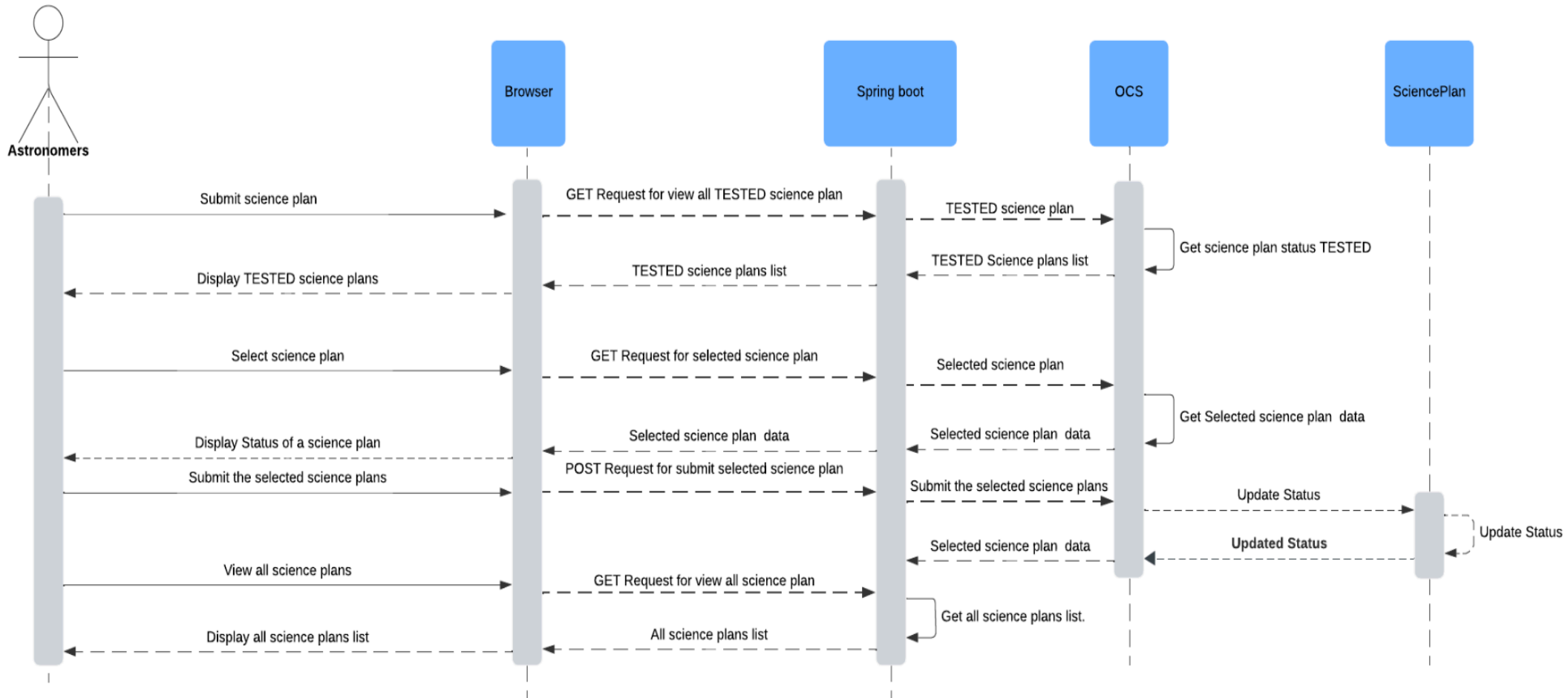
## Submit Science Plan 02

<b>Use Case Name:</b> Submit Science Plan	<b>ID:</b> 02	<b>Importance Level:</b> High
<b>Primary Actor:</b> Astronomer		<b>Use Case Type:</b> Essential
<b>Stakeholders and Interests:</b> <ul style="list-style-type: none"><li>• Astronomers: Submit a science plan to an OCS</li></ul>		
<b>Brief Description:</b> <p>The astronomer reviews the science plan to finalize it before submitting it into the system for the test on the next step.</p>		
Trigger: Astronomers submit the science plan to the OCS.  Type: Internal		
<b>Relationships:</b> <b>Association:</b> Astronomer <b>Include:</b> - <b>Extend:</b> - <b>Generalization:</b> -		
<b>Normal Flow of Events:</b> <ol style="list-style-type: none"><li>1. <b>Astronomers</b> enter the submitting process.</li><li>2. <b>Astronomers</b> select science plans and submits.</li></ol>		
<b>Sub flows:</b> -		
<b>Alternate/Exceptional Flow:</b> -		

**Activity diagram “Submit Science Plan ”**



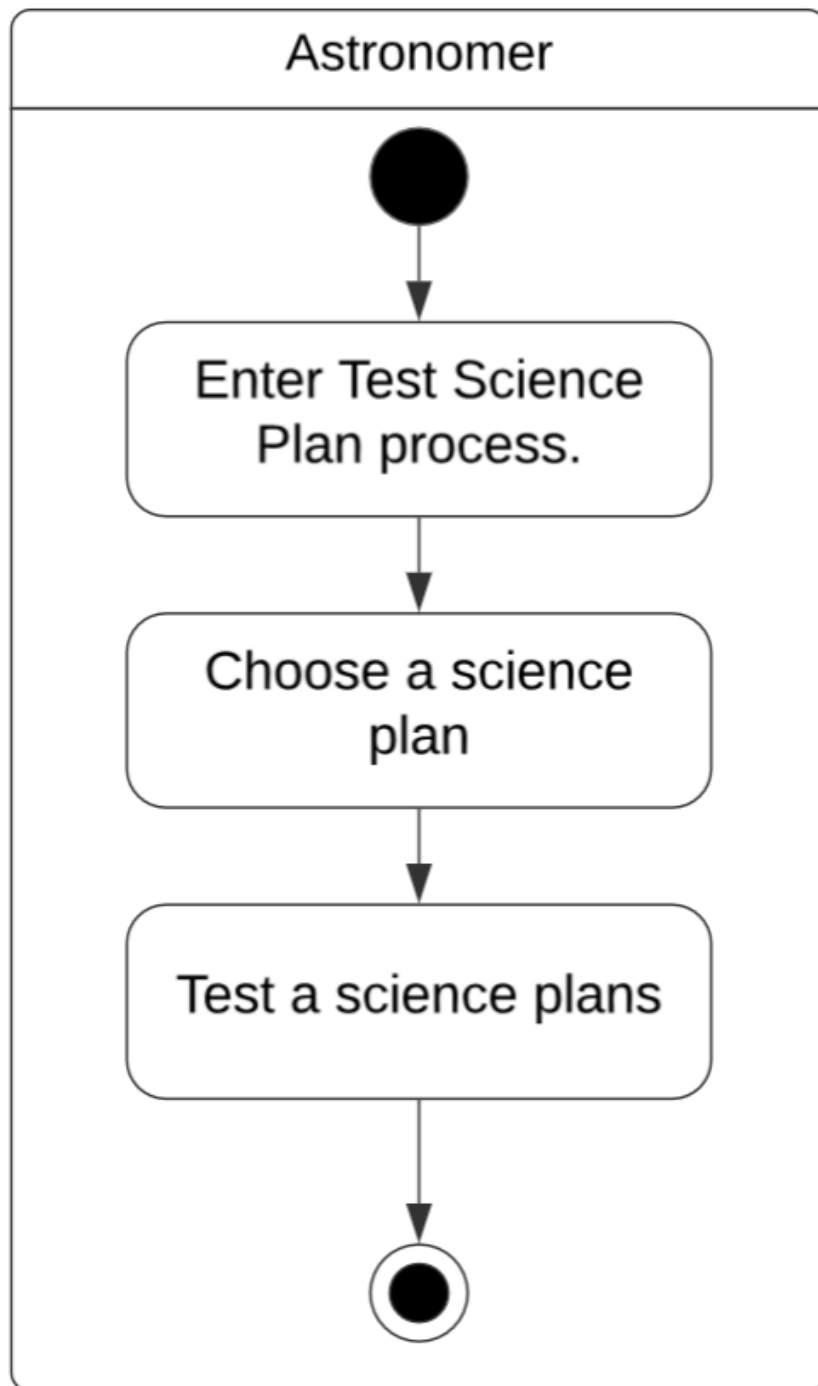
## Sequence diagram “Submit Science Plan”



### Test Science Plan 03

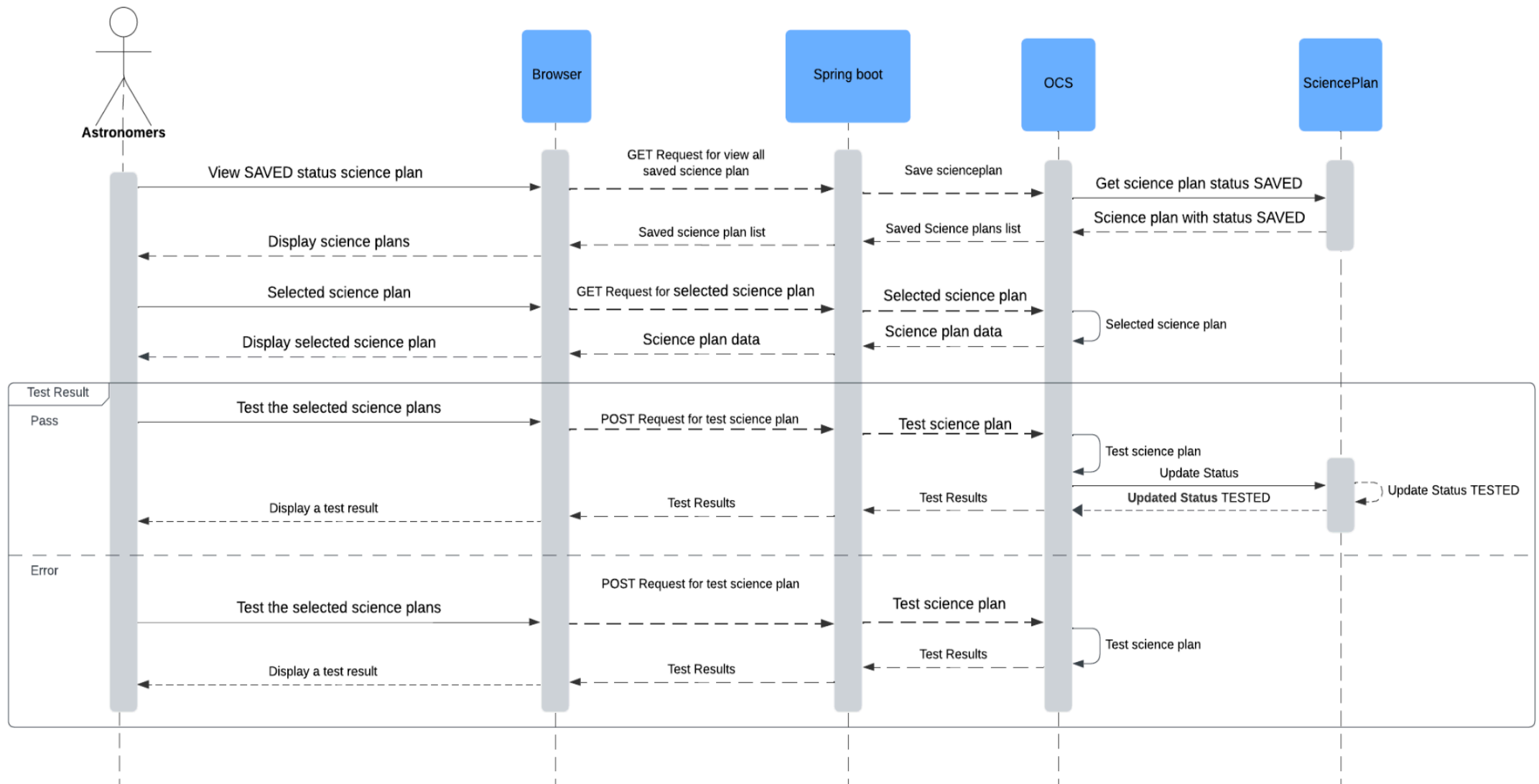
<b>Use Case Name:</b> Test Science Plan	<b>ID:</b> 03	<b>Importance Level:</b> High
<b>Primary Actor:</b> Astronomers		<b>Use Case Type:</b> Essential
<b>Stakeholders and Interests:</b> <ul style="list-style-type: none"><li>• Astronomers: Test a science plan in a virtual telescope system</li></ul>		
<b>Brief Description:</b> <p>After the science plan has been submitted into the system. Science observers will check the completeness of data and Astronomers will take this plan to test in a virtual telescope to see the result while Science observers record the result of observation.</p>		
Trigger: Astronomers test science plan in virtual telescope  Type: Internal		
<b>Relationships:</b> <b>Association:</b> - <b>Include:</b> - <b>Extend:</b> - <b>Generalization:</b> -		
<b>Normal Flow of Events:</b> <ol style="list-style-type: none"><li>1. <b>Astronomers</b> enter the Test Science Plan process.</li><li>2. <b>Astronomers</b> select science plans.</li><li>3. <b>Astronomers</b> test the selected science plans.</li></ol>		
<b>Sub flows:</b> -		
<b>Alternate/Exceptional Flow:</b> <ul style="list-style-type: none"><li>• If the test passes The Science Plan Status is changed to TESTED.</li><li>• If not, the status will be the same.</li></ul>		

**Activity diagram “Test Science Plan”**





## Sequence diagram “Test Science Plan”



## Class diagram

