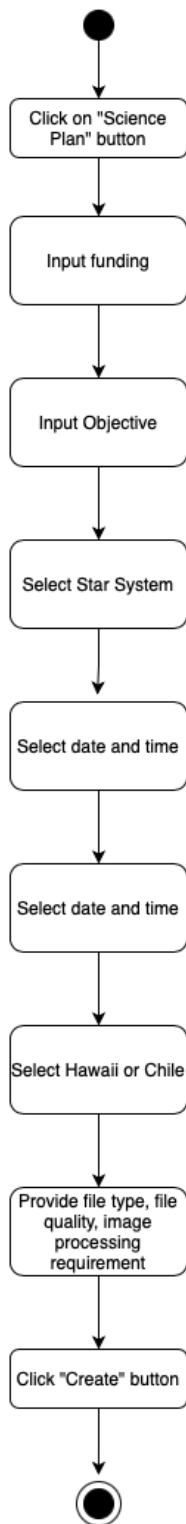


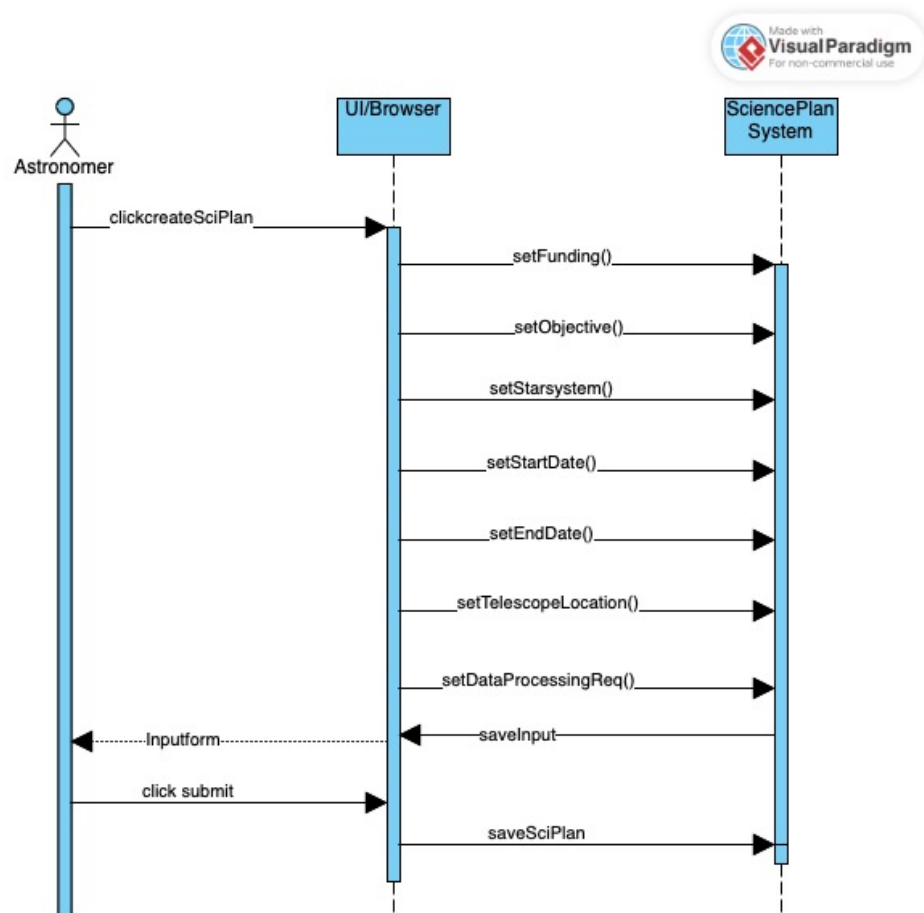
## Use case 1: Create a Science Plan

<b>Use Case Name:</b> Create a Science Plan	<b>ID:</b> 01	<b>Importance Level:</b> High
<b>Primary Actor:</b> Astronomer		<b>Use Case Type:</b> Detail, Essential
<b>Stakeholders and Interests:</b> Science observer		
<b>Brief Description:</b> This use case enables astronomers to create detailed science plans.		
<b>Trigger:</b> Science plan is created as the initial planning process.		
<b>Type:</b> External		
<b>Pre-conditions:</b> <ol style="list-style-type: none"><li>1. The Astronomer must be logged into the Gemini project system.</li><li>2. The system should be fully operational and accessible online.</li></ol>		
<b>Normal Flow of Events:</b> <ol style="list-style-type: none"><li>1. The astronomer selects create science plan button.</li><li>2. The astronomer proceeds to input funding into the funding section of the form</li><li>3. The astronomer inputs the science plan objective into the objective part of the form.</li><li>4. The astronomer selects a star system in the star system part of the form.</li><li>5. The astronomer selects an available date and time for the telescope in the schedule part of the form.</li><li>6. The astronomer selects either Hawaii or Chile in the telescope locations section of the form.</li><li>7. The astronomer provides file type, file quality, image processing requirement</li><li>8. The astronomer clicks a button called “Create”.</li></ol>		
<b>Post-conditions:</b> <ol style="list-style-type: none"><li>1. The newly created science plan is stored in the Gemini project system.</li><li>2. Astronomers have access to the finalized science plan.</li></ol>		

## Activity Diagram



## Sequence Diagram



<b>Primary Actor:</b> Astronomer	<b>Use Case Type:</b> Detail, Essential
<b>Stakeholders and Interests:</b> -	
<b>Brief Description:</b> This use case will allow astronomers to submit a science plan	
<b>Trigger:</b> Astronomers want to submit a science plan.  Type: External	
<b>Pre-conditions:</b> The user must create a science plan. The user must test a science plan.	
<b>Normal Flow of Events:</b> <ol style="list-style-type: none"> <li>1. The astronomer searches for a tested science plan that wants to submit to the Science observer.</li> <li>2. If the astronomer clicks add science plan, <ol style="list-style-type: none"> <li>2.1 If it is success the system will add the science plan to a submitted list.</li> <li>2.2 If it is not success the system will notify the error message.</li> </ol> </li> <li>3. The system changes the status of science plans to “submitted”</li> <li>4. The system will notify the science observer about the newly submitted science plan(s) viaOCS.</li> </ol>	
<b>Post-conditions:</b> Notify status of a science plan to astronomer.	