Use Case Name: Login to the system	ID: 1	Importance Level: High
Primary Actor: User		Use Case Type: Detail, Essential
Stakeholders and Interests		
User - wants to login to the system.		
Brief Description: The user needs to login before using the Gemini system.		
Trigger: The user wants to use	the Gemini system.	
Type: external		
Relationships:-		
Association:User		
Include:-		
Extend:-		
Generalization:-		
Normal Flow of Events:		
1. The user enters the login page.		
2. The user has an account in the Gemini system.		
If the user does not have an account.		
The S-1 : create a new account subflow is performed.		
3. User input username.		

4. User input password.
If User inputs wrong password
The S-2 : forget password subflow is performed.
5.User enter to system
Subflows:
The S-1 : create a new account
1.User input username.
2.User input username.
3.User input email
The S-2 : forget password
1.User input username.
2.User input email
3.User verify account by email
4.User set new password
Alternate/Exceptional Flow:

Use Case Name: Submit a Science Plan	ID: 2	Importance Level: High
Primary Actor: Astronomer		Use Case Type: Detail, Essential
Stakeholders and Interests Astronomer - wants to submit their science plan		
Brief Description: This use case describes astronomer who wants to submit their science plan		
Trigger: The astronomer wants to submit a science plan Type: External		
Relationships:		
Association: Astronomer		
Include:		
Extend:		
Generalization:		
Normal Flow of Events:		
Astronomers create a science plan.		
Astronomers test a science plan via the virtual telescope and interactive observing mode.		
Astronomers submit science plans to the system.		
Subflows:		

Alternate/Exceptional Flow: science plan has not been tested and the interactive observation

Use Case Name: Create an observing program	ID: 3	Importance Level: high
Primary Actor: Science Observer		Use Case Type: Detail, Essential
Stakeholders and Interests		
Astronomer		
Telescope Operator		
Brief Description:This use case describes how a science observer transforms a science plan to an observing program		
Trigger:Science Observer received A created science plan from Astronomer		
Type:		
Relationships:		
Relationships: Association: Science Observ	ver	
	ver	
Association: Science Observ	ver	
Association: Science Observ	ver	
Association: Science Observenture Include: Extend:	ver	
Association: Science Observ Include: Extend: Generalization:		from system
Association: Science Observed Include: Extend: Generalization: Normal Flow of Events:		from system
Association: Science Observed Include: Extend: Generalization: Normal Flow of Events: 1. The science observer gets a	created science plan	·

Subflows:	
Alternate/Exceptional Flow:	

Use Case Name: Validate an Observing Program	ID: 4	Importance Level: HIGH
Primary Actor: Telescope Operator		Use Case Type: Detail, Essential
Stakeholders and Interests: Telescope Operator: want to validate an observing program		
Brief Description: This use case describes how a telescope operator validates an observing program		
Trigger: Telescope Operator want to validate an observing program Type: External		
Relationships:		
Association: Telescope Ope	erator	
Include:		
Extend:		
Generalization:		
Normal Flow of Events:		
 Telescope Operator get an observing program for the system Telescope Operator validate an observing program Submit an observing program to the system 		
Subflows:		
Alternate/Exceptional Flow:		

Use Case Name: Install new configurations to the system	ID: 5	Importance Level:
Primary Actor: Supporter		Use Case Type: Detail, Essential
Stakeholders and Interests:		
Supporter–wants to install new configurations to the system		
Brief Description: This use case describes the process of installation and configuration with support.		
Trigger: new or updated config	urations.	
Type: Internal		
Relationships:		
Association: Supporter		
Include:		
Extend:		
Generalization:		
Normal Flow of Events:		
Proposal to special equipment to Gemini Support validated installation and configuration Install new configurations to the system		
Subflows:		

Alternate/Exceptional Flow:

1. The installation is unable to be installed; the installation is rejected