



Template: Create a Use Case Diagram

Use this template to enter your solution. You may modify the template to include more information.

Solution

Task 1: Identify the actors

Understanding the role of each actor within the system and document it. *Refer to the instructions for task 1 in the lab instructions.*

Actor	Primary/Secondary	Role	Interactions
Viewers	Secondary	End consumers of the news program who watch broadcasts and engage with the channel through social media	 Interact via social media : Watches the news program  Coordinate resources : Provides feedback that influences content
Advertisers	Secondary	Provide funding in exchange for commercial slots.	<ul style="list-style-type: none">• Provide advertisement: Submits ads and negotiates ad placement within programming
News producers	Primary	Responsible for content creation and scheduling.	<ul style="list-style-type: none">• Create news segment: Engages in creating and planning segments• Coordinate resources: Works with the technical team for required resources
Technical Team	Secondary	Manages the broadcast equipment and software.	<ul style="list-style-type: none">• Manage broadcast equipment: Sets up, maintains, and troubleshoots broadcast technology

Reporter	Primary	Gather news and report live.	<ul style="list-style-type: none"> • Report news live: Presents stories and updates during broadcasts • Contribute to segment creation: Helps in developing content for segments
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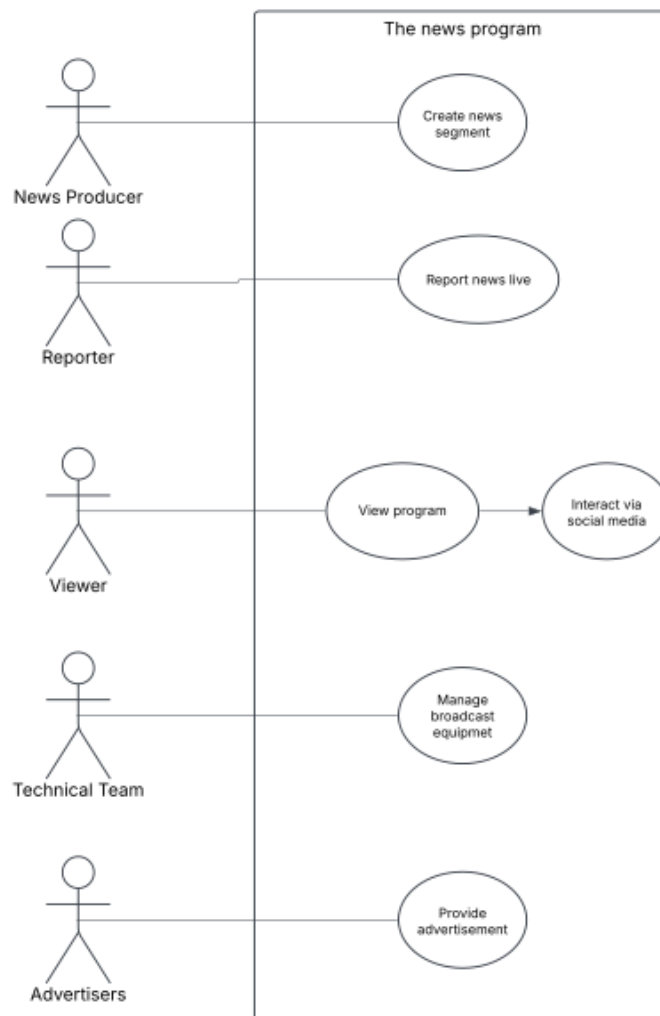
Task 2: Define the use case

List the key use cases for each actor. *Refer to the instructions for task 2 in the lab instructions.*

Use case	Description
Create news segment	The news producer outlines and develops news segments for the program. This includes determining topics, gathering resources, and assigning reporters.
Report news live	Reporters deliver news segments live on-air, presenting information to viewers in real-time, including breaking news, interviews, and special reports.
Manage broadcast equipment	The technical team ensures that all equipment, including cameras, sound equipment, and broadcasting software, functions correctly before and during broadcasts.
Provide advertisement	Advertisers submit advertisements for airing during commercial breaks, often negotiating timing and placement within the broadcast.
View program	Viewers watch the live broadcast of the news program, which serves as their primary interaction point with the channel.
Interact via social media	Viewers engage with the program on social media, providing feedback and comments and participating in live discussions. This helps gauge viewer sentiment and preferences.

Task 3: Create a use case diagram

Use a diagramming tool (**e.g. Lucidchart**) to create a use case diagram. *Refer to the instructions for task 3 in the lab instructions.*



Task 4: Define relationships between actors and use cases

Identify how each actor interacts with the various use cases. *Refer to the instructions for task 4 in the lab instructions.*

Actor	Use case	Relationship
Viewer	View Program	Primarily engages with the live broadcast as the main interaction points.
	Interact via social media	Has an interactive role, providing feedback that influences content decisions.

Reporter	Report news live Create news segment	Interacts by heavily being involved by delivering segments live on air May contribute to the delivering of news
News Producer	Report news live Create news segment	Develop information including breaking news, interviews, and special reports News producers interact by developing and outlining news segments for the program.
Technical Team	Manage broadcast equipment	Interacts by ensuring that all equipment, including cameras, sound equipment, and broadcasting software, functions correctly before and during broadcasts
Advertisers	Provide advertisement	Interact by submitting advertisements for airing during commercial breaks, often negotiating timing and placement within the broadcast.