



Gallery

Elevating Inject Delivery & Data Visualization

EXERCISE SCENARIOS OFTEN ENTAIL A WEALTH OF ESSENTIAL DATA, vital for task execution and successful completion. Here lies the necessity for a structured application—an invaluable tool that seamlessly organizes, categorizes, and arranges exercise information. Elevate your exercise experience with an intuitive application that allows you to visualize exercise information from a variety of sources in one streamlined interface.



Innovative Solution: Unveiling the Gallery

In response to challenge of providing a variety of exercise injects and data in one

easy-to-use and searchable location, we introduce the Gallery application—meticulously designed to transform the delivery and presentation of injects and exercise data in a meaningful way. Gallery unfolds in two distinct components: the Wall and the Archive. The novel ways in which Gallery displays information will optimize user engagement and comprehension. Gallery is part of the Crucible Framework, allowing it to be an essential application used in a variety of exercises, from full-scale to tabletop.

Introducing the Gallery Wall

From the user's perspective, the Gallery Wall provides visualization of crucial information through an intuitive dashboard with cards. These cards are a dynamic collection of injects and exercise data that are meticulously categorized to reflect a similar theme, making information easily accessible. For instance, cards like "Energy Sector" and "Information Technology" group injects related to those categories, streamlining access to pertinent data. Serving as the focal point for inject delivery, it employs red, orange, yellow, and green

indicators to guide users to prioritize their next steps with urgency. Each card on the Wall also indicates to the user the number of unread articles that still need to be reviewed, ensuring no valuable injects are left unread.



Figure 1: Gallery Wall

Unveiling the Gallery Archive

Gallery Archive provides a gateway to a wealth of essential resources including intelligence, reporting, orders, news, social media, telephone, and email content. As an exercise progresses, additional articles are added automatically, creating a dynamic landscape of information. Immerse yourself as you read, filter, and sort through the content. You can even enhance collaboration by sharing these valuable articles with other teams.

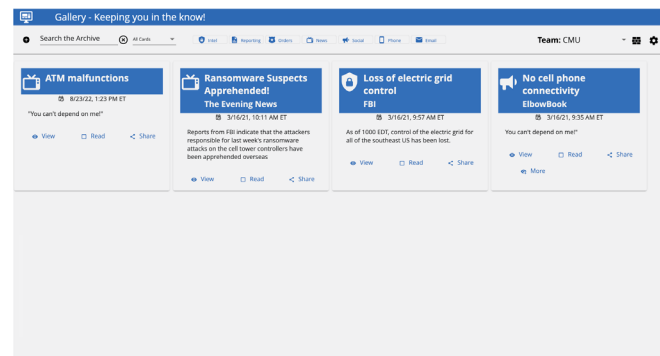


Figure 2: Gallery Archive

Unlocking Gallery's Potential

Gallery isn't just an application - it's an experience that empowers users with clarity and diverse interaction options.

Search & Filter Information

Gallery excels at information organization. Should the need arise, users possess the power to delve deeper by sorting and filtering content using specific keywords. Moreover, for those who prefer it, sorting by information source is a game changer, saving time on endless searches.

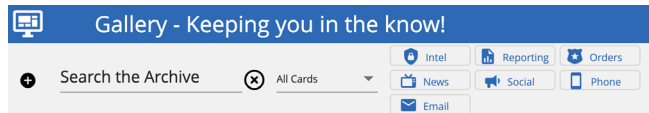


Figure 3: Sort & Filter Feature

Create an Article

Visualize, collaborate, and contribute, but also harness the ability to create articles that represent your unique perspective. Craft insightful reports, share organizational viewpoints, or articulate public statements directly within Gallery. Your contributions expand the exercise's knowledge base and enrich the experience for all participants.

Marking Articles as Read

With just one click, users can effortlessly mark read articles, instantly reducing the unread article count on the Gallery Article dashboard. Marking an article as Read means that you have reviewed it, allowing the feature to highlight new articles that have been received as they are populated into the system.

Sharing an Article

Sharing valuable insights for future reference or seeking opinions from colleagues is pivotal. With a simple click, an email is crafted, requiring only a selection of teams to be made before sending the attached article. This feature allows the user to share the article with additional teams inside the exercise. Participants on other teams are then able to find the article in the Gallery, as well as in their inbox (if a webmail system is integrated into the Crucible environment). This feature not only fosters collaboration but also streamlines the exchange of thoughts, creating a harmonious platform organized for enhanced teamwork.

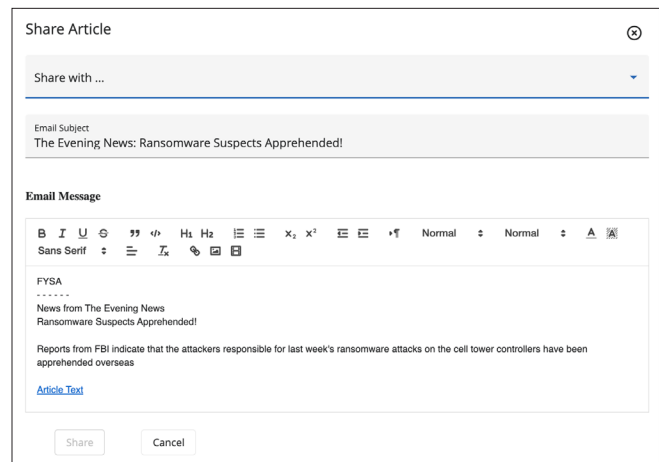


Figure 4: Share an Article Functionality

Viewing More Information

Articles are displayed as simple cards with a summary or overview visible to the user. Users will click on "View" to open the full article up in a popup window from which they also have the ability to open the article up in a new browser tab. These articles can be formatted with rich HTML content but, occasionally, the content on an article card may fall short of displaying all crucial details for a specific inject. To address this, supplementary resources such as PDF documents, videos, and websites can be linked to the card, accessible by clicking the "More" button. This ensures an optimized engagement by expanding the information beyond the confines of the Gallery application.



Figure 5: View Information in a New Tab

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Elevate your exercise journey with Gallery's transformative capabilities, fostering seamless engagement and enriched insights for a truly impactful experience.

About the CERT Division

The CERT® Division of Carnegie Mellon University's Software Engineering Institute conducts valued, relevant, and trusted evidence-based research that fortifies the cyber ecosystem and protects national security and prosperity.

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