Professional Certificate in Google Apps Script Advanced Techniques

Working with Google Slides and Forms using Apps Script

In this explanation, we will delve into the key terms and vocabulary related to working with Google Slides and Forms using Google Apps Script in the Professional Certificate in Google Apps Script Advanced Techniques. We will cover various concepts, including Slides and Forms services, triggers, methods, and properties, along with practical examples and challenges.

Google Slides and Forms Services

Google Slides Service is a part of Google Apps Script that allows developers to create, read, and modify Google Slides presentations programmatically. Google Forms Service is another part of Google Apps Script that enables developers to create, manage, and analyze Google Forms.

Slides Service provides methods and properties for working with slides, shapes, tables, and other elements within a presentation. For example, you can add new slides, insert text boxes or images, and format slide elements.

Forms Service provides methods and properties for working with forms, questions, and responses. For example, you can create new forms, add questions and answer choices, and analyze form responses.

Triggers

Triggers are automated events that can execute a Google Apps Script function in response to a specific event. For example, you can create a trigger that runs a script when a user submits a Google Form. Google Apps Script provides various types of triggers, including time-driven triggers, installable triggers, and form-related triggers.

Time-driven triggers allow you to schedule a script to run at specific intervals or times. Installable triggers enable you to run a script in response to a user's action or event, such as opening a document or submitting a form. Form-related triggers run a script when a user submits a form or when a form response is edited or deleted.

Methods and Properties

Methods are actions that a script can perform on a specific object, while properties are characteristics or attributes of an object. For example, the `getSlides()` method retrieves all slides in a Google Slides presentation, while the `getSpeakerNotesShape()` method retrieves the speaker notes shape on a specific

slide.

Similarly, the `getItemResponses()` method retrieves all responses to a specific question in a Google Form, while the `getResponse(responseId)` method retrieves a specific response by its ID.

Practical Applications

Here are some practical applications of using Google Slides and Forms services in Google Apps Script:

* Creating a presentation from a Google Sheet using the Slides Service
* Automatically generating a report from a Google Form using the Forms Service
* Creating a dashboard from Google Form responses using the Charts Service and Slides Service
* Sending a customized email with a Google Slides presentation attached using the Gmail Service

Challenges

Here are some challenges to help you practice your skills in working with Google Slides and Forms using Google Apps Script:

* Create a script that adds a new slide to a Google Slides presentation and inserts a table with data from a Google Sheet
* Create a script that generates a report from Google Form responses and sends it as a PDF attachment to a recipient's email
* Create a dashboard from Google Form responses that displays charts and graphs using the Slides Service and Charts Service

Conclusion

In this explanation, we have covered the key terms and vocabulary related to working with Google Slides and Forms using Google Apps Script in the Professional Certificate in Google Apps Script Advanced Techniques. We have discussed various concepts, including Slides and Forms services, triggers, methods, and properties, along with practical examples and challenges. By mastering these concepts, you can create powerful and automated workflows that save time and improve productivity.