Question #13   Topic 4

HOTSPOT -

A production line app maker at a manufacturing company creates a canvas app that looks for available inventory in a SQL database. The production line workers use the inventory app across all work centers.

The production line workers report the following app issues from the shop floor:

☞ The app reports a delegation warning.

☞ Voice command functionality is unreliable.

You have minimal information about the issues. You are not allowed to enter the production facility.

You need to troubleshoot the issues.

How should you troubleshoot the issues? To answer, select the appropriate options in the answer area.

Hot Area:

Answer Area

Issue	Action
The app reports a delegation warning.	▼
	Use the LookUp function
	Check the number of items in the collection
	Check the number of dataset items
Voice command functionality is unreliable.	▼
	Use the App checker/Runtime feature
	Use the Advanced Tools/Monitor feature
	Use the App checker/Accessibility feature
	Use Advanced Tools/Performance feature

Correct Answer:

Answer Area

Issue	Action
The app reports a delegation warning.	▼
	Use the LookUp function
	Check the number of items in the collection
	Check the number of dataset items
Voice command functionality is unreliable.	▼
	Use the App checker/Runtime feature
	Use the Advanced Tools/Monitor feature
	Use the App checker/Accessibility feature
	Use Advanced Tools/Performance feature

Box 1: Check the number of items in the collection

If the data in your data source exceeds 500 records and a function can't be delegated, Power Apps might not be able to retrieve all of the data, and your app may have wrong results.

Note: Delegation is where the expressiveness of Power Apps formulas meets the need to minimize data moving over the network. In short, Power Apps will delegate the processing of data to the data source, rather than moving the data to the app for processing locally.

Box 2: Use the Advanced Tools/Monitor feature

Monitor is available by default for all canvas apps. Using Monitor, you can trace events as they occur in a canvas app during the authoring experience in Power

Apps Studio, or you can use Monitor to debug the published version of a canvas app.

Example: Consider the scenario where an app has been deployed, and the initial version of the app experiences performance degradation. The app also intermittently generates errors with no clear pattern. Loading data in the app succeeds most of the time, but fails sometimes.

When you check Monitor, you see data operations as expected. However, you also see several responses that have HTTP status code 429, indicating that there have been too many requests in a specific timeframe.

Reference:

https://docs.microsoft.com/en-us/powerapps/maker/canvas-apps/delegation-overview https://docs.microsoft.com/en-us/powerapps/maker/monitor-canvasapps

Implement and manage solutions

Topic 5 - Testlet 1

Introductory Info
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Background -

Overview -
Wide World Importers is an importer and supplier of fair trade, handmade home goods to independent retailers in North America. The company has a partner company named Tailwind Traders.
One of the products that the company manufactures was recently featured on several major television talk shows and has become very popular. Wide World Importers is expanding their prospective sales operations to new markets and plans to engage current customers in a more direct manner.

Current environment -
Sales representatives submit weekly status reports to regional managers. There is no standardized format for these status reports. The process for managing status reports is challenging.
Wide World Importers has decided to use Microsoft 365, Microsoft Azure, and Power Platform for future app development. Both Wide World Importers and
Tailwind Traders have identical Microsoft SharePoint and Azure configurations. Both companies use separate tenants.

Requirements -

Application -
You must create a mobile app to streamline the creation of status reports by sales representatives. You must make the same app available to Tailwind Traders.
The mobile app must meet the following requirements:
Minimize the use of code.
Use formulas and expressions when necessary.
Support a variety of visual layouts.
Use a SharePoint list to store information about regional managers and sales representatives.
Use Azure SQL Database to store other data.

Status reports -
Sales representatives must provide a weekly status report for all work processes each Monday.
Representatives must enter the following information for each process:

Information type	Values
Category	Pipelines, Work/life balance, Coaching/Mentoring, or Communications
Status	At Risk, Acceptable, or Great
Notes	Notes as appropriate

If a sales representative submits a status report and assigns the At Risk status to a process, the app must prompt the sales representative to enter a detailed description for the risk. This information must be emailed to the regional manager. If the category is Work/life balance, the information must be carbon copied to the human resources department.

If a sales representative does not submit a weekly status report by an agreed upon deadline, the system must send an email to remind the sales representative.

The app must be able to run both online and offline. If the mobile device on which the app runs is connected to the internet, the app must immediately submit the status report.

You must display a visual indicator in the app so that sales representatives know whether the app is offline before submitting reports.

When data is submitted offline, the data must be stored in the app until the app is back online.

Technical -

Regardless of the UI layouts, the data recorded must be standardized in the Azure DB tables. You must use global variables in the app.

Deployment -

Before deploying the app to production, you must ensure that the app conforms to Microsoft accessibility and performance guidelines.

The completed app and all supporting components must be provided to Tailwind Traders.

Tailwind Traders must not be able to make changes to any of the components.

You must use the following version control numbering scheme:

- Major: The last two digits of the year the app is packaged
- Minor: Two digits that represent the month when the app is packaged
- Build: A number that is incremented to represent significant changes to the app
- Revision: The incremented revision for a package

New versions of the application must completely replace previous versions of the app.

When identifying versions of the app solution, all dependencies, entities, and user interfaces components must be identified to avoid any unintentional issues caused by reverting individual components to a previous version.

Previous versions of the mobile app must be available for roll back purposes.

All versions of software that have been used in production must be retained for five years.

Issues -

The mobile app has been live for several months. Eight versions of the app have been released since the initial version of the app was deployed to sales representatives. You must revert the app to an earlier version and redesign some features.

User1 often works in a warehouse that does not have internet connectivity. User1 needs to edit an existing status report and submit a new status report.

Several sales representatives have accessibility restrictions. User2 is visually impaired and cannot see images. User3 is unable to use a mouse.

Question

You need to provide the app to Tailwind Traders.

What should you do?

A. Within Managed Properties, set the value of the Allow customizations option to true. Export the app as a managed solution.

B. Use the Share App feature.

C. Within Managed Properties, set the value of the Allow customizations option to false. Export the app as a managed solution.

D. Within Managed Properties, set the value of the Allow customizations option to false. Export the app as an unmanaged solution.

Correct Answer: *C*

Scenario: The completed app and all supporting components must be provided to Tailwind Traders. Tailwind Traders must not be able to make changes to any of the components.

Managed Solution: A managed solution is a finalized solution that can be distributed and installed. They are created by exporting an unmanaged solution by setting restrictions to prevent any further customizations. The whole point of Managed is locking down the Component states so they cannot be edited. Deleting the Managed Solution will remove all its customisations as well as data contained. Managed Solutions become read only once deployed so they cannot be manipulated.

Reference:

https://powerusers.microsoft.com/t5/Power-Apps-Pro-Dev-ISV/Managed-vs-Unmanaged/td-p/495685

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Background -

Overview -

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One of the products that the company manufactures was recently featured on several major television talk shows and has become very popular. Wide World Importers is expanding their prospective sales operations to new markets and plans to engage current customers in a more direct manner.

Current environment -

Sales representatives submit weekly status reports to regional managers. There is no standardized format for these status reports. The process for managing status reports is challenging.

Wide World Importers has decided to use Microsoft 365, Microsoft Azure, and Power Platform for future app development. Both Wide World Importers and

Tailwind Traders have identical Microsoft SharePoint and Azure configurations. Both companies use separate tenants.

Requirements -

Application -

You must create a mobile app to streamline the creation of status reports by sales representatives. You must make the same app available to Tailwind Traders.

The mobile app must meet the following requirements:

Minimize the use of code.

Use formulas and expressions when necessary.

Support a variety of visual layouts.

Use a SharePoint list to store information about regional managers and sales representatives.

Use Azure SQL Database to store other data.

Status reports -

Sales representatives must provide a weekly status report for all work processes each Monday.

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If a sales representative does not submit a weekly status report by an agreed upon deadline, the system must send an email to remind the sales representative.

The app must be able to run both online and offline. If the mobile device on which the app runs is connected to the internet, the app must immediately submit the status report.

You must display a visual indicator in the app so that sales representatives know whether the app is offline before submitting reports.

When data is submitted offline, the data must be stored in the app until the app is back online.

Technical -
Regardless of the UI layouts, the data recorded must be standardized in the Azure DB tables. You must use global variables in the app.

Deployment -
Before deploying the app to production, you must ensure that the app conforms to Microsoft accessibility and performance guidelines.
The completed app and all supporting components must be provided to Tailwind Traders.
Tailwind Traders must not be able to make changes to any of the components.
You must use the following version control numbering scheme:
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Previous versions of the mobile app must be available for roll back purposes.
All versions of software that have been used in production must be retained for five years.

Issues -
The mobile app has been live for several months. Eight versions of the app have been released since the initial version of the app was deployed to sales representatives. You must revert the app to an earlier version and redesign some features.
User1 often works in a warehouse that does not have internet connectivity. User1 needs to edit an existing status report and submit a new status report.
Several sales representatives have accessibility restrictions. User2 is visually impaired and cannot see images. User3 is unable to use a mouse.

Question
DRAG DROP -
You need to ensure that the app can support the needs of User2 and User3, and meets the production deployment requirements.
Which tools should you use? To answer, select the appropriate tool in the answer area.

NOTE: Each correct selection is worth one point.

Select and Place:

Tools

| Solution Checker |
| App Checker |
| Object Detector |
| Preview the app |

Answer Area

Requirement	Tool
Accessibility	Tool
Deployment	Tool

Correct Answer:

Tools

| Solution Checker |
| App Checker |
| Object Detector |
| Preview the app |

Answer Area

Requirement	Tool
Accessibility	App Checker
Deployment	Solution Checker

Box 1: App Checker -

Scenario: Several sales representatives have accessibility restrictions. User2 is visually impaired and cannot see images. User3 is unable to use a mouse.

Users who have vision, hearing, or other impairments can use your canvas app more easily and successfully if you consider accessibility as you design how the app looks and behaves. If you're not sure how to make your app more accessible, you can run the AppChecker Accessibility checker in Power Apps Studio.

Box 2: Solution Checker -

Scenario: Before deploying the app to production, you must ensure that the app conforms to Microsoft accessibility and performance guidelines.

Use solution checker to validate your model-driven apps in Power Apps.

Reference:

https://docs.microsoft.com/en-us/powerapps/maker/canvas-apps/accessibility-checker https://docs.microsoft.com/en-us/powerapps/maker/common-data-service/use-powerapps-checker

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Several sales representatives have accessibility restrictions. User2 is visually impaired and cannot see images. User3 is unable to use a mouse.

Question

HOTSPOT -

You need to resolve the issue for User1.

What should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Requirement	Option
Submit a status report.	▼
	Dynamics 365 mobile app
	Power Apps Studio
	Power Apps mobile app
	Azure mobile app
Edit an existing status report.	▼
	Azure SQL Database
	Connector
	SQL Lite DB
	Collections

Correct Answer:

Answer Area

Requirement	Option
Submit a status report.	▼
	Dynamics 365 mobile app
	Power Apps Studio
	Power Apps mobile app
	Azure mobile app
Edit an existing status report.	▼
	Azure SQL Database
	Connector
	SQL Lite DB
	Collections

Box 1: Power Apps mobile app -

Scenario:

☞ User1 often works in a warehouse that does not have internet connectivity.

☞ User1 needs to edit an existing status report and submit a new status report.

to run both online and offline. If the mobile device on which the app runs is connected to the intern immediately submit the status report.

You can build offline capabilities in your PowerApps app so your app users can access some data or save some data even when they don't have an internet connection.

Box 2: Connector -

Scenario: Azure SQL Database is used to store other data