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2025

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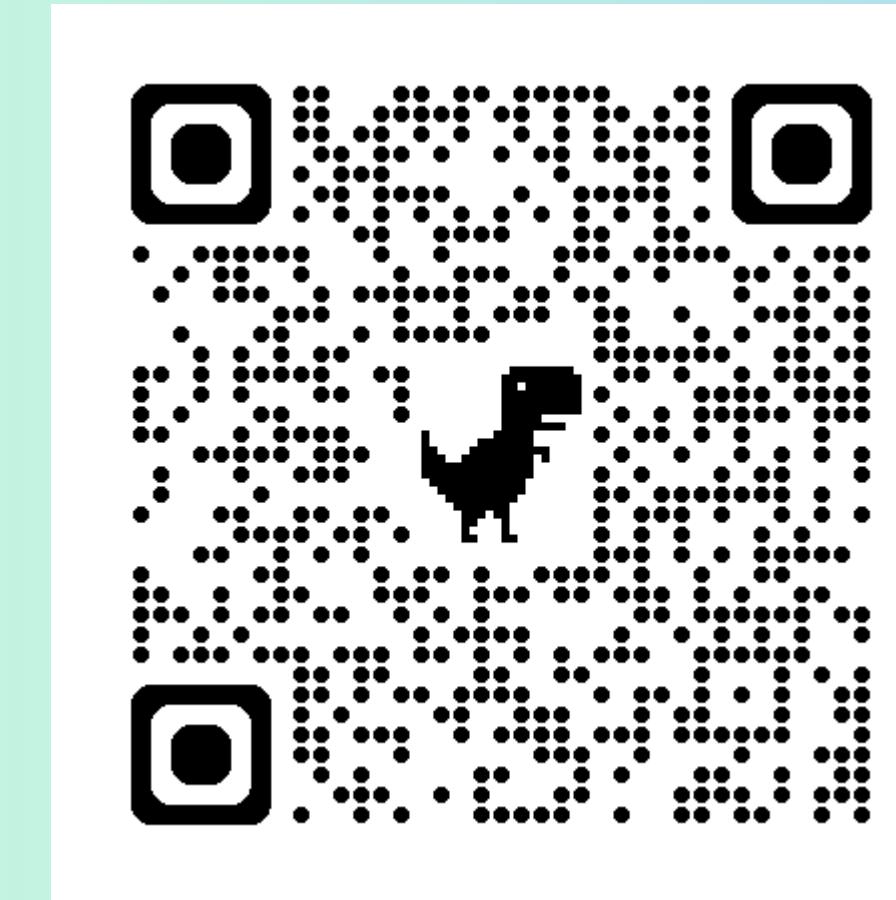


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UNLEASH THE POWER OF MICROSOFT SOLUTIONS

**Start with a plan!**  
**Building Power Apps**  
**with the Intelligent**  
**App designer**

Nick Doelman

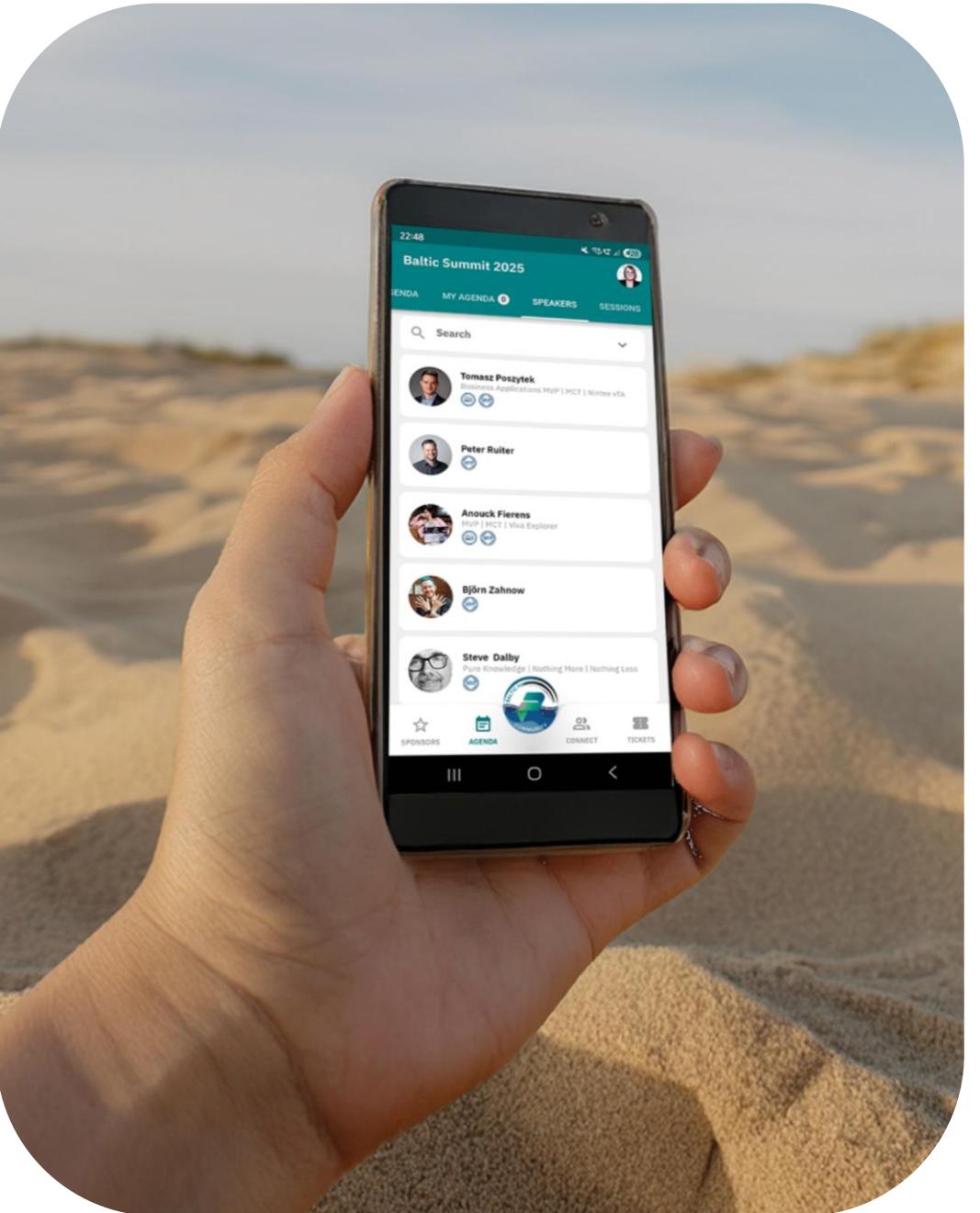


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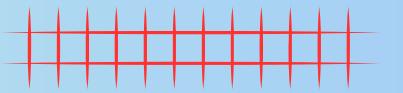
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# Will the presentation be available – yes!

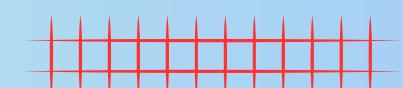
<https://github.com/readyxrm/balticsummit2025>



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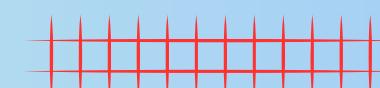


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# Session goals

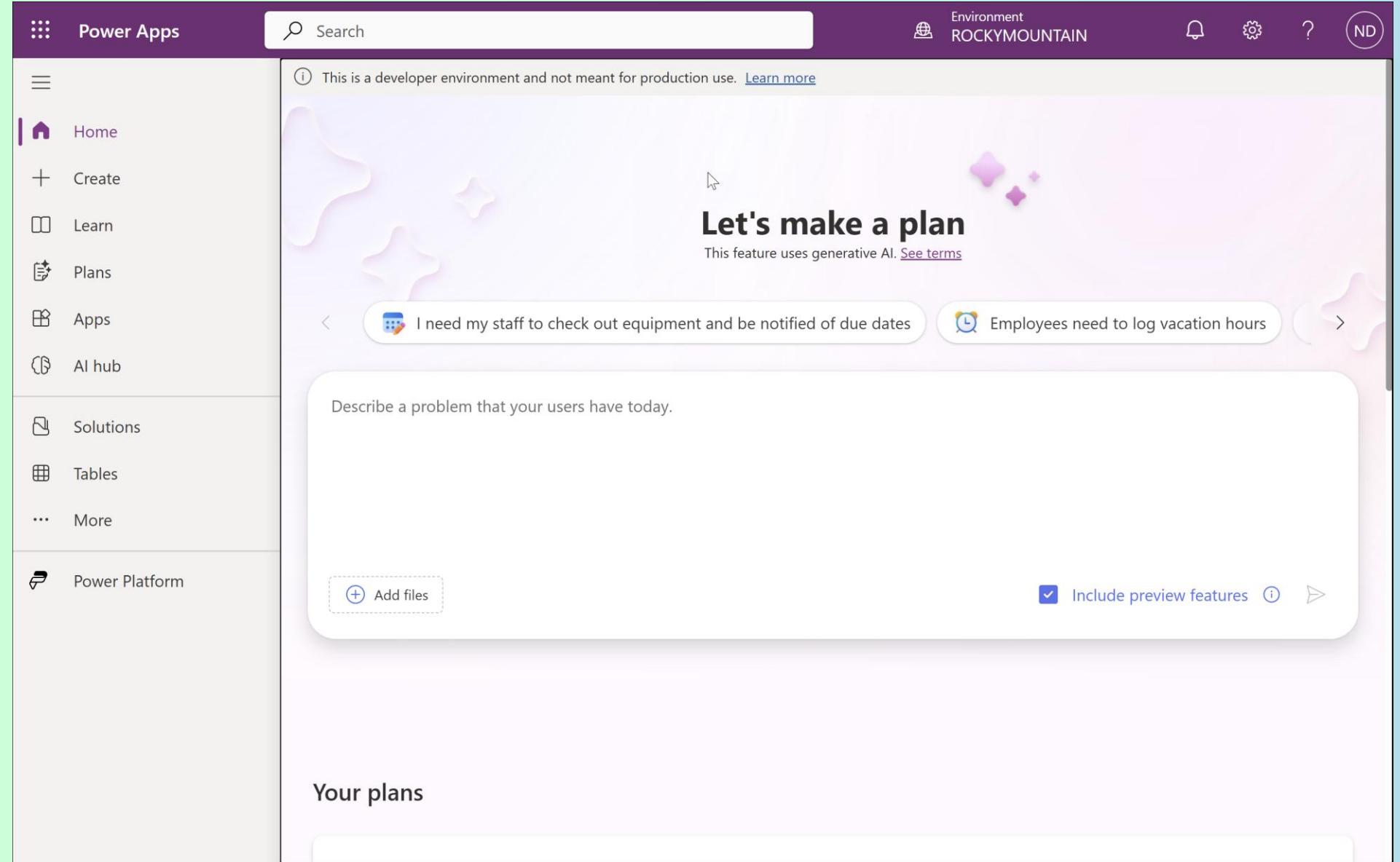
- Importance of planning when building apps, agents, automations, analytics and websites
- Using AI tools to assist in the planning and development process
- Design and build a solution using M365 and the Power Platform plan designer
- Address pitfalls, gaps, and areas where a human needs to be in the loop
- Highlight efficiencies and time saving



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# Vibe Coding...

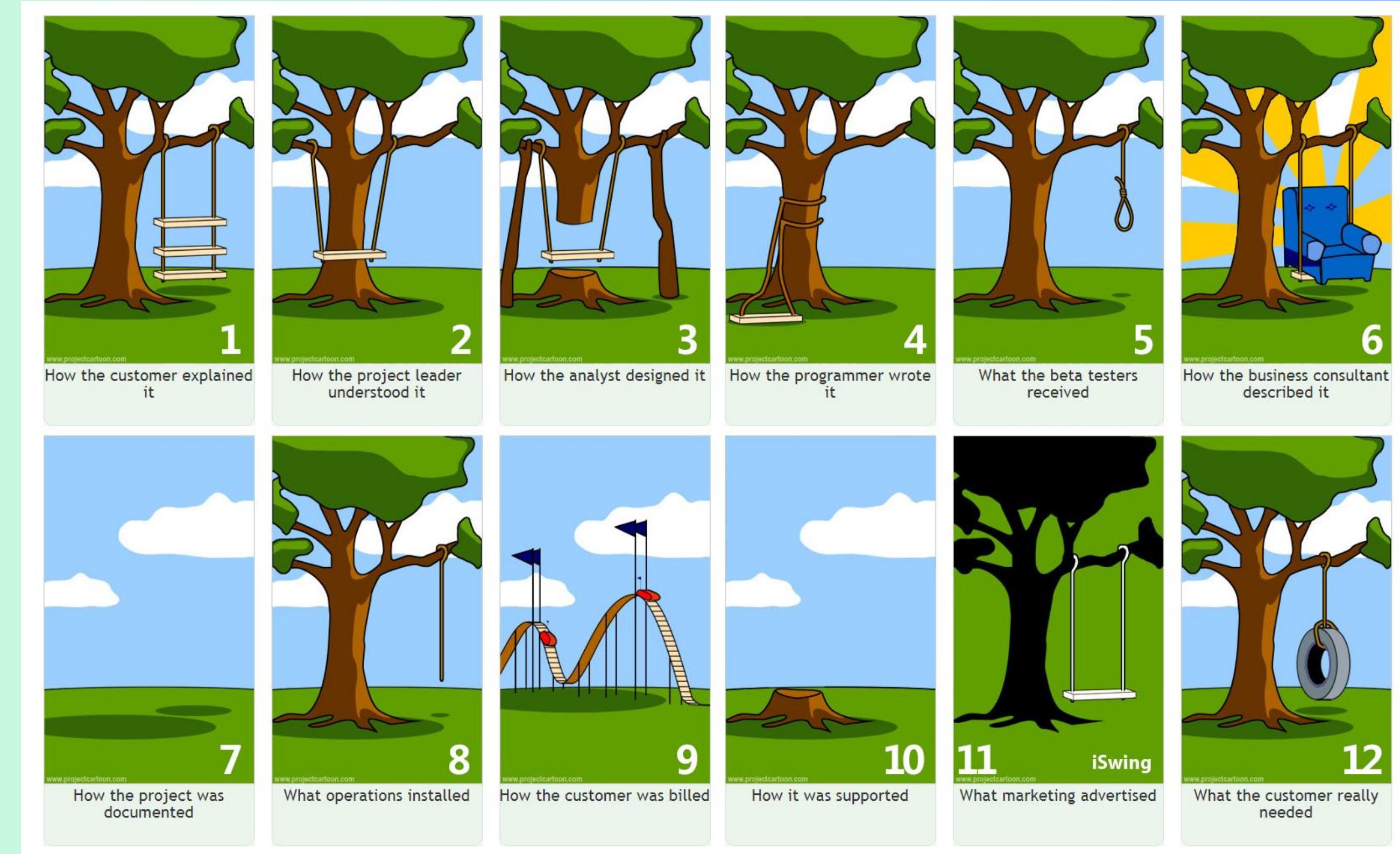


We just tell AI what we want and let it build it...

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# Tree swing



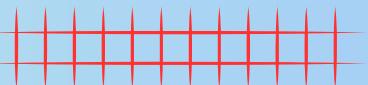
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# Tree swing – vibe coded



Vibe coded

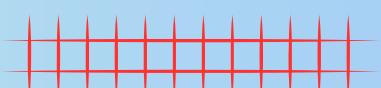


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# AI assisted development

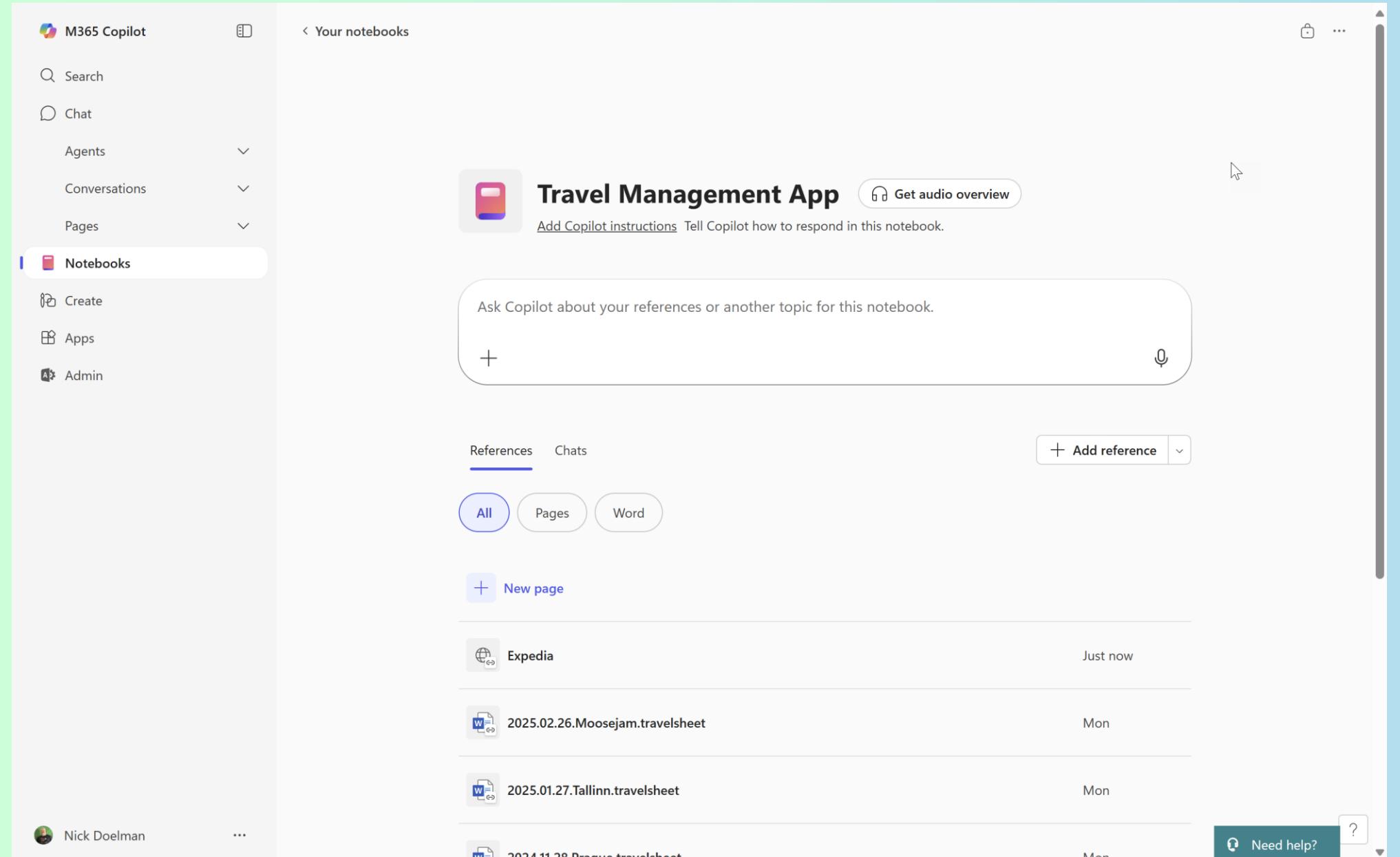
- Collect requirements and information
- Challenge and question requirements
- Build a Product Requirements Document
- Generate a prompt
- Work through Plan designer to build app
- Deploy



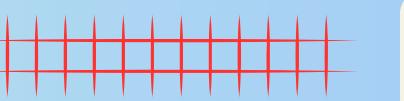
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# Before Plan designer...



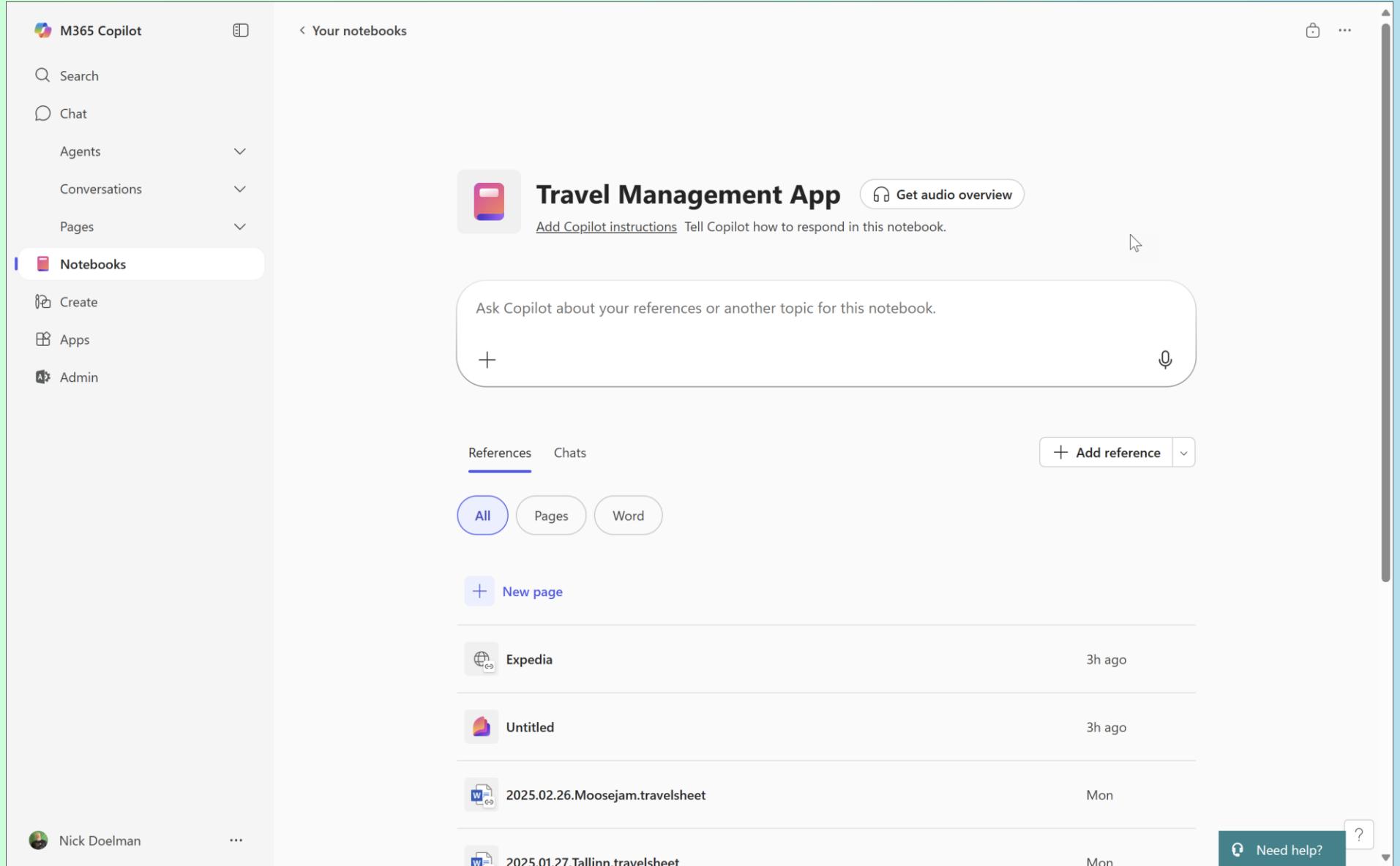
- Use an AI chat tool
- ChatGPT projects
- Google Notebook LM
- M365 Copilot Notebooks
- Consider security and data protection
- Upload info (docs, images, pdfs, meeting recordings, etc)



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# M365 Copilot Notebook



- Part of M365 Copilot
- Upload documents, links, notes, meeting records, images, etc
- Get audio overviews
- Similar to Google Notebook LM

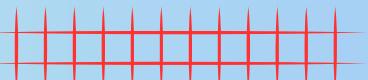
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# Prompt

I want to create a product requirements document to build a travel management solution. You are a travel agent and a solution architect. Review the attached documents to assist with this task. I want to build an app that tracks flights, hotels, events and is able to produce a one-pager that I can reference when travelling. Ask me questions to gain clarity and context. The output will be a product requirements document that I can use to build the application.

- Context
- Role
- Interview
- Task



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# Challenge the design!

The screenshot shows the Microsoft 365 Copilot interface. On the left, there's a sidebar with options like Search, Chat, Agents, Conversations, Pages, Notebooks (which is selected), Create, Apps, and Admin. The main content area is titled "Copilot" and discusses building a travel management app. It highlights "critical feedback questions and assumption challenges".

**Strategic Value & User Relevance**

**Is this solving a real pain point?**

- Assumption: Manual entry is acceptable for frequent travelers.
- Challenge: Will users consistently input data for every trip, especially if they travel often or have complex itineraries? Could this become tedious and lead to abandonment?

**Is the one-pager PDF the best format?**

- Assumption: A static PDF is the most useful reference tool.
- Challenge: Would a dynamic, mobile-friendly view with offline access be more practical? PDFs are hard to update and not interactive.

**Data Model & Architecture**

**Does the unified provider table scale well?**

Ask Copilot about your references or another topic for this notebook.

AI-generated content may be incorrect

Need help? ?

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# Create a prompt for Plan designer

The screenshot shows the Microsoft 365 Copilot interface. On the left, there's a sidebar with options like Search, Chat, Agents, Conversations, Pages, Notebooks (which is selected), Create, Apps, and Admin. The main area has a header "Travel Management App > Travel Management...". A central text box contains the following text:

I am going to build this application using Microsoft Power Platform plan designer. You are a Power Platform expert. Create a prompt that I can copy and paste into the plan designer input window

Below this, a section titled "Copilot" provides a "ready-to-copy prompt" for the Microsoft Power Platform Plan Designer input window:

Here's a **ready-to-copy prompt** you can paste directly into the **Microsoft Power Platform Plan Designer** input window to guide the creation of your Travel Management App:

**Prompt for Power Platform Plan Designer**

Build a **personal travel management app** that allows manual entry of trip details and generates a one-pager PDF per trip. The app should support the following entities and relationships:

**Core Entities:**

- **Trip:** Includes flights, hotels, events, insurance, car rentals, and notes.
- **Provider:** A unified table for all service providers including airlines, hotel chains, insurance companies, and car rental agencies. Each provider has:
  - Name
  - Type: "Airline", "Hotel", "Insurance", "CarRental"
  - Loyalty program name

At the bottom, there are buttons for "Show me a Power App schema for this data model", "Generate sample provider and trip data for testing", and a microphone icon. A text input field says "Ask Copilot about [redacted] your references or another topic for this notebook." A footer at the bottom right includes "AI-generated content may be incorrect", "Need help?", and a question mark icon.

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# Prepare environment

The screenshot shows the Microsoft Power Apps interface. On the left, the navigation bar includes options like Home, Create, Learn, Plans, Apps, AI hub, Solutions, Tables, More, and Power Platform. The 'Solutions' section is selected. The main area displays a list of existing solutions: EventDemo, Common Data S, and Default Solution. A modal window titled 'New solution' is open, prompting for details: Display name (RockyMountainPDdemo), Name (RockyMountainPDdemo), Publisher (Nick (Nick)), Version (1.0.0.0), and a checked option 'Set as your preferred solution'. Below the modal is a 'Deployment' section with a description of tracking solution deployments.

Display name	Name	Created	Version
EventDemo	EventDemo	4 days ago	1.0.0.11
Common Data S	Cr75031	5 days ago	1.0.0.0
Default Solution	Default	5 days ago	1.0

- **Create developer environment**
- **Create a publisher and solution (preferred)**
- **Provide access to makers**
- **Consider deployment plan (ALM) dev-test-prod**

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# Plan designer (finally!)

The screenshot shows the Microsoft Power Apps Plan designer interface. At the top, there's a purple header bar with the "Power Apps" logo, a search bar, and account information for "Environment ROCKYMOUNTAIN". Below the header is a message: "This is a developer environment and not meant for production use. [Learn more](#)". The main area features a large button labeled "Let's make a plan" with the sub-instruction "This feature uses generative AI. [See terms](#)". Below this, there are three cards: "I need my staff to check out equipment and be notified of due dates", "Employees need to log vacation hours", and "My team needs a solut...". A central text box contains the following prompt:

Build a personal travel management app that allows manual entry of trip details and generates a one-pager PDF per trip. The app should support the following entities and relationships:

- Core Entities:
  - Trip: Includes flights, hotels, events, insurance, car rentals, and notes.
  - Provider: A unified table for all service providers including airlines, hotel chains, insurance companies, and car rental agencies. Each provider has:
    - Name
    - Type: "Airline", "Hotel", "Insurance", "CarRental"

At the bottom of the text box are buttons for "+ Add files" and "Include preview features" with a checkbox. The sidebar on the left has a navigation menu with icons for Home, Plus, Grid, List, and More. The bottom left corner of the interface says "Your plans".

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# Requirements agent

The screenshot shows the Microsoft Power Apps Requirements Agent interface. At the top, there's a navigation bar with 'Power Apps' and a search bar. Below it, the environment is set to 'ROCKYMTAIN'. The main area is titled 'Travel Companion' and describes it as an AI-generated plan for a personal travel management app. It details the business problem (building a manual entry app for trips) and user requirements (entering trip details like flights, hotels, events, insurance, car rentals). A 'User requirements' section shows a note from the 'Requirements Agent' that it has regenerated the user requirements, which include manually entering trip details. On the right, a canvas workspace displays a process titled 'Untitled' with a 'Traveler' user role assigned. The workspace includes a grid for dragging and dropping components.

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# Process agent

The screenshot shows the Power Apps canvas interface. At the top, the title bar includes "Power Apps", a search bar, and environment information "Environment ROCKYMTAIN". Below the title bar, there are several icons and a toolbar with "Editing" selected. The main area displays a "user processes" card and a "Trip Creation and Management" process card.

**user processes**  
The processes for solving the business problem. Each process appears as a card next to this document.

**Trip Creation and Management**  
This process covers the manual entry and organization of all trip details, including flights, hotels, car rentals, insurance, and events. It enables travelers to link service providers, use form-based entry, and manage sensitive data securely. The process ensures that all trip components are stored locally with optional cloud sync and are accessible offline.

**Provider Directory Management**  
This process focuses on managing the unified provider directory, allowing travelers to view, add, and update information about airlines, hotels, insurance companies, and car rental agencies. It supports easy access to provider details and loyalty information from the app settings.

**Trip Summary and Export**

**Process Agent generated a set of processes next to the document. Does everything look ok?**  
✓ Looks good

**Traveler User roles**

**View process**

**Provider Directory**  
This process focuses on managing the unified provider directory, allowing travelers to view, add, and update information about airlines, hotels, insurance companies, and car rental agencies. It supports easy access to provider details and loyalty information from the app settings.

**Traveler User roles**

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# Data agent

The screenshot shows the Power Apps Data model screen for the "Travel Companion" app. The left pane displays the "Data model" section, which lists five tables:

- Trip**: Data verse table (New)
- Provider**: Data verse table (New)
- Flight**: Data verse table (New)
- Hotel**: Data verse table (New)
- Car Rental**: Data verse table (New)

The right pane shows two processes:

- Trip Creation and Management**: This process covers the manual entry and organization of all trip details, including flights, hotels, car rentals, insurance, and events. It enables travelers to link service providers, use form-based entry, and manage sensitive data securely. The process ensures that all trip components are stored locally with optional cloud sync and are accessible offline.
- Provider Director**: This process focuses on managing service providers, allowing travelers to link providers like airlines, hotels, insurance companies, and car rental agencies. It supports easy access to provider details from the app settings.

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# Pitfall - Common Data Model what?

The screenshot shows the Power Apps Plan designer interface. On the left, there's a sidebar titled "Data model" which lists several tables:

- Trip** (New) - This table contains records of personal trips with all linked travel components.
- Provider** (New) - This table contains records of all service providers including airlines, hotels, insurance companies, and car rental agencies. A tooltip indicates it was generated by the Data Agent.
- Flight** (New) - This table contains flight details linked to airline providers and trips.
- Hotel** (New)
- Car Rental**

In the center, there's a process titled "Trip Creation and Management" with a detailed description. To the right, there's a "Provider Director" process. A context menu is open over the "Provider" table, with the "Replace with existing" option highlighted. The "Flight" table also has a similar context menu open.

- **Plan designer (at this time) will NOT suggest tables that already exist (system or user created)**
- **Supposedly will now use existing tables**
- **You can swap out as part of the Data model review process.**

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# ERD designer

The screenshot shows the Microsoft Power Apps interface for an "Travel Companion" app. The top navigation bar includes "Power Apps", a search bar, and environment settings for "ROCKYMOUNTAIN". The main workspace displays an Entity Relationship Diagram (ERD) with several tables:

- Account**: Contains fields like Account Name, Main Phone, Address 1:City, Primary Contact, and +143 more.
- Trip**: Generated with AI. Contains fields like Trip Name, Start Date, End Date, and Notes.
- Car Rental**: Generated with AI. Contains fields like Rental Company, Pickup DateTime, Dropoff DateTime, and Trip Name.
- Insurance**: Generated with AI. Contains fields like Policy Number, Coverage Start Date, Coverage End Date, and Trip Name.
- Event**: Generated with AI. Contains fields like Event Name, Venue, Event Date, Event Time, and Trip Name.
- Receipt Photo**: Generated with AI.

Relationships are shown between the Trip table and the Car Rental, Insurance, and Event tables. The Copilot feature is active on the right, displaying options to Create, Import data, and Change the model. It also asks what would be done next and provides terms information.

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# Table modifications

The screenshot shows the Microsoft Power Apps Studio interface. At the top, there's a navigation bar with 'Power Apps', a search bar, and environment information ('Environment ROCKYMOUNTAIN'). Below the navigation is a toolbar with icons for 'New table', 'Existing table', 'Hide data', 'Create relationships', 'Remove', and 'Copilot'. The main area displays three tables: 'Trip' (with columns Trip Name, Start Date, End Date, Notes), 'Car Rental Booking' (with columns Rental Company, Pickup DateTime, Dropoff DateTime, Trip Name, Car Rental Company), and 'Insurance'. A dashed line indicates a relationship between 'Trip' and 'Car Rental Booking'. On the left, a sidebar shows the 'Car Rental Booking' table structure. Below the tables is a data grid with columns 'Rental Company\*', 'Pickup DateTime', and 'Dropoff DateTime'. The data grid contains several rows of rental company names and their corresponding pickup and dropoff times. To the right of the data grid is the 'Copilot' AI interface, which greets the user 'Hi Nick, what can I help you with?' and provides options for 'Create', 'Import data', and 'Change'. It also has a prompt box where the user can type AI-generated content.

- Create tables fast
- Need to link existing tables
- Visual diagram (Access 97!)
- Can't delete columns
- Can't create certain column types
- Sample data!

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# Solution Agent - technology

The screenshot shows the Microsoft Power Apps portal interface. At the top, there's a navigation bar with 'Power Apps' and a search bar. Below it, the environment is set to 'ROCKYMOUNTAIN'. The main area displays a 'Technology' section for a 'Travel Companion' app. This section includes a brief description: 'The apps, flows, and other objects that will be used to solve the business problem.' Below this, three items are listed:

- Personal Travel Manager** (Canvas app) New  
Travelers use this app to enter trips, manage bookings, upload receipts, and view trip dashboards for organized travel planning.
- Provider Directory Manager** (Model-driven app) New  
Travelers manage and link airline, hotel, car, and insurance providers, accessing contact and loyalty details easily from one place.
- Trip PDF Generator** (Power Automate flow) New  
Creates and delivers concise PDF trip summaries for travelers to preview or download their travel details as handy documents.

A callout bubble at the bottom left says: 'Solution Agent generated the Technology section. How does it look?' with options to 'Looks good' or 'Edit'.

- Generate list of apps, agents, automations, dashboards, websites
- Add or update technologies

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# Save tables (Create Dataverse tables)

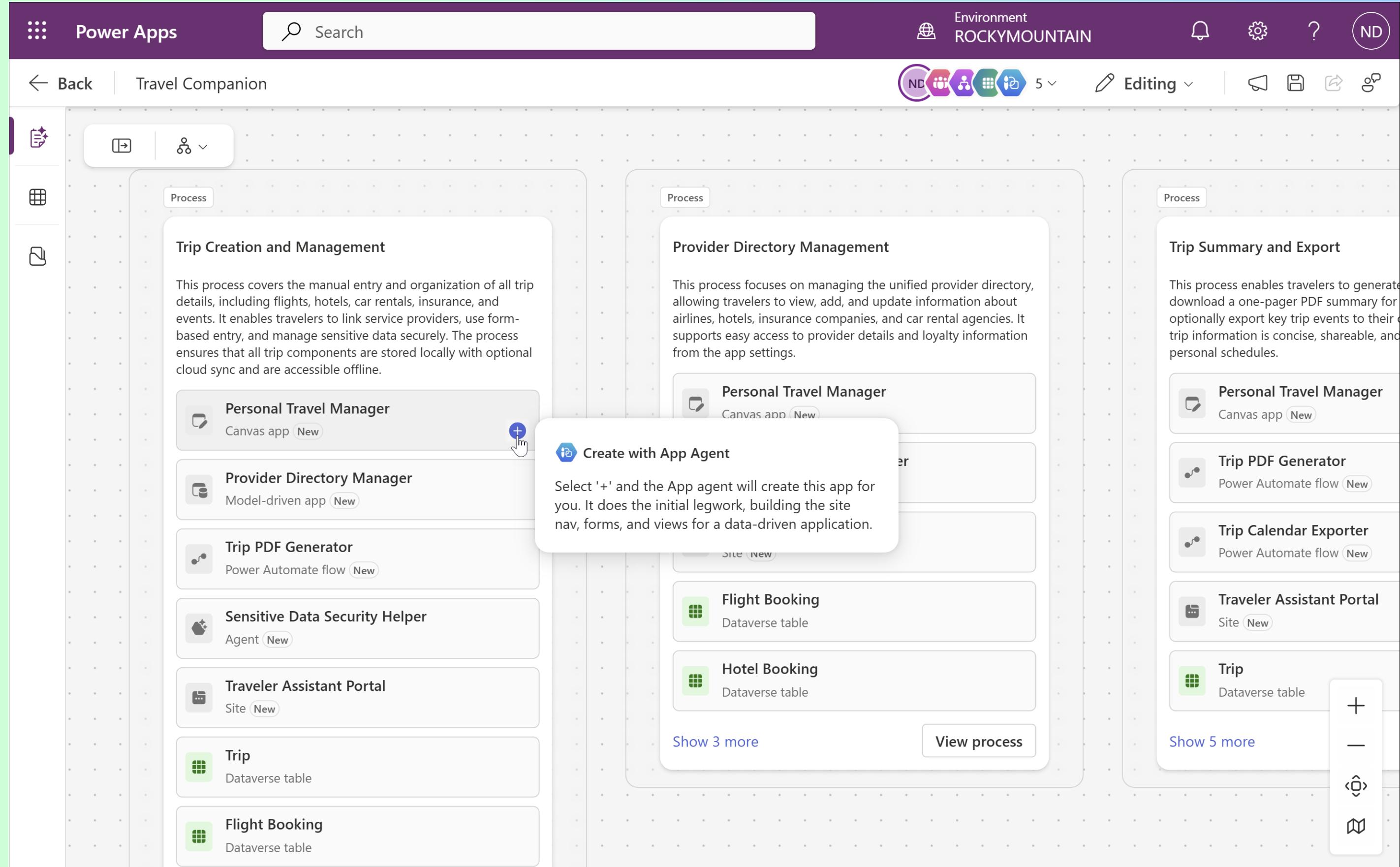
The screenshot shows the Microsoft Power Apps canvas editor interface. At the top, there's a navigation bar with 'Power Apps', a search bar, and environment information ('Environment ROCKYMOUNTAIN'). Below the navigation bar, the main area displays a process flow titled 'Trip Creation and Management'. This process includes steps like 'Personal Travel Manager' (Canvas app), 'Provider Directory Manager' (Model-driven app), 'Trip PDF Generator' (Power Automate flow), 'Sensitive Data Security Helper' (Agent), and 'Traveler Assistant Portal' (Site). To the right of this process are two more sections: 'Provider Directory Management' and 'Trip Summary and Export', each listing similar components. On the far left, there's a sidebar with cards for 'Trip Calendar Exporter', 'Sensitive Data Security Helper', 'Traveler Assistant Portal', and 'Trip Dashboard Report'. A callout bubble at the bottom left says: 'Now it's time to start creating objects. But before you do, you need to save the tables first.' with a 'Save tables' button.

- Handled by Data agent
- Microsoft Dataverse is always the data store (as it should be)
- This will take some time

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# Solution agent – create objects



## Create:

- Model-driven apps
- Canvas apps
- Power Automate flows
- Copilot Studio Agents
- Websites

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# Apps, agents, automations, websites... no dashboards

Copilot Studio interface showing the details of a 'Sensitive Data Security Helper' agent. The agent is described as helping travelers securely manage, validate, and protect insurance and membership data during travel. It uses generative AI to determine how best to respond to users and events. The response model is GPT-4o (default). Instructions include assisting travelers in managing insurance and membership data, validating information for accuracy and compliance, providing guidance on protecting sensitive data, and responding to user stories focused on privacy and secure data management for travelers.

Power Apps | Provider Directory Manager interface showing flight bookings data. The 'Flight Bookings' table contains flight details linked to airline providers and trips. User can view and manage Flight Bookings. They will see or use View and Form. The table shows data for various dates from 8/5/2025 to 7/10/2025.

Power Pages interface showing a travel website for 'TravelSecure'. The website features a main navigation bar with links to Home, About Us, Contact Us, FAQ, Trip Details, Provider Info, and Download Summaries. A Copilot sidebar provides assistance with page design, data forms, and asking questions. The homepage has a banner with the text 'Plan Your Journey Securely' and 'Access Trip Details, Provider Info, and Summaries Anything'.

Power Apps | Personal Travel Manager interface showing a tree view of screens. The 'Screens' tab is selected, displaying a list of screens including Trips screen, Flight Bookings screen, Hotel Bookings screen, Car Rental Bookings screen, Insurances screen, Events screen, Receipt Photos screen, and Welcome screen. The 'Welcome screen' is currently selected.

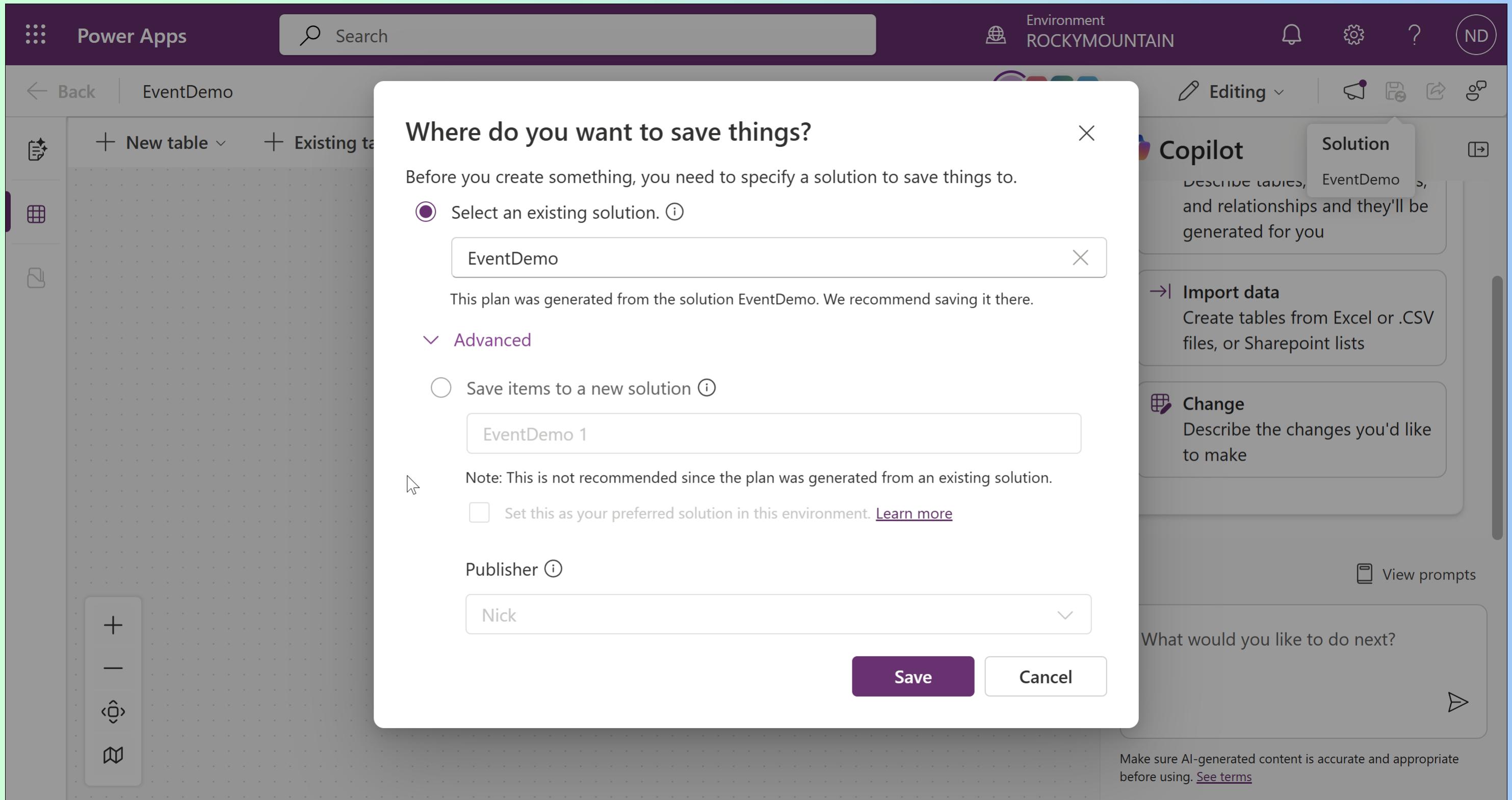
Power Automate interface showing a flow to generate a PDF summary. The flow starts with a manual trigger and ends with a Table action. The business problem described is that Travel Companion empowers travelers to manage, view, and organize trips with robust data entry, PDF summaries, and secure offline access. The suggested flow involves triggering the flow manually and performing actions related to a table.

A card titled 'Trip Dashboard Report' with a 'Report New' button. The card features a bar chart icon and a plus sign icon.

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# Save plan



- Save plan
- Export as PDF
- Added to solution

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# Create a plan from an existing solution

The screenshot shows the Microsoft Power Apps portal interface. The top navigation bar includes 'Power Apps', a search bar, and environment information ('Environment: ROCKYMOUNTAIN'). The main menu bar has options like '+ New solution', 'Edit', 'Delete', 'Create a plan', 'Export solution', 'Deploy', and '...'. On the left sidebar, there are links for Home, Create, Learn, Plans, Apps, AI hub, and Solutions. Under 'Solutions', there are tabs for 'Unmanaged' (selected) and 'Managed'. A list of solutions is displayed, with 'RockyMountainPDdemo' as the 'Current preferred solution'. Below it, 'EventDemo' is highlighted with a red box. A context menu is open over 'EventDemo', with the 'Create a plan' option also highlighted with a red box. The menu also includes 'Edit', 'Delete', 'Export solution', 'Deploy', 'Solution checker', 'Show dependencies', 'Set preferred solution', 'See history', 'Clone', 'Apply Upgrade', 'Translations', 'Settings', and 'Publish to Catalog'. To the right of the menu, a callout box provides more details about the 'Create plan from a solution' feature.

**Create plan from a solution**  
AI assistants can review current solution and create a plan with detailed analysis of the data model and objects

Display name	Created	Version	Publisher	Solution check
RockyMountainPDdemo	1 hour ago	1.0.0.0	Nick	Hasn't been run
EventDemo	1 day ago	1.0.0.11	Nick	Hasn't been run
Common Dat...	1 day ago	1.0.0.0	CDS Default Publ...	Hasn't been run
Default Solution	1 day ago	1.0	Default Publisher...	Not supported for

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# Summary

- AI tools can save time and enhance, but not replace your work
- Use other tools to define requirements and challenge assumptions
- Use other tools to build prompts, build your assets (PRDs)
- Refine! Refine! Refine!
- Use existing Power Platform skills to finalize solution
- Use AI tools for testing, documentation, feedback, training, etc



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# Questions?

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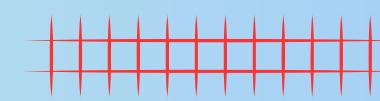
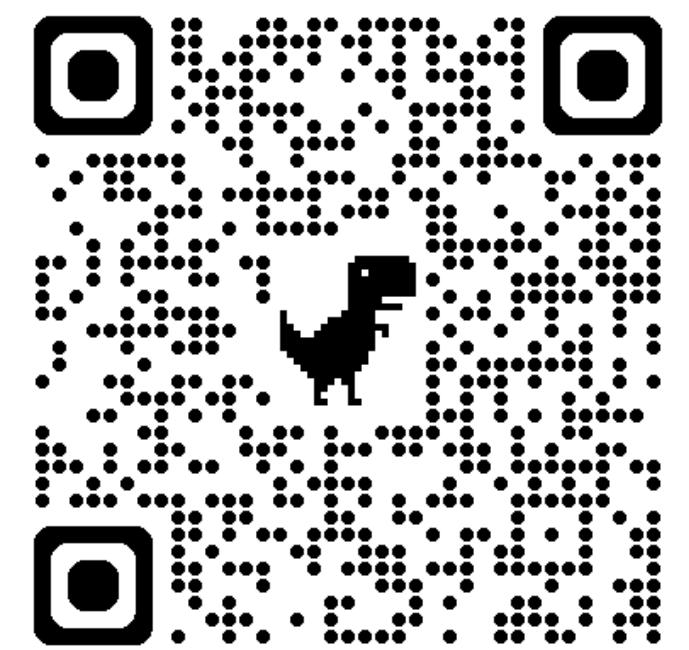
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THANK YOU FOR  
PARTICIPATION

**Nick Doelman**

[www.nickdoelman.com](http://www.nickdoelman.com)

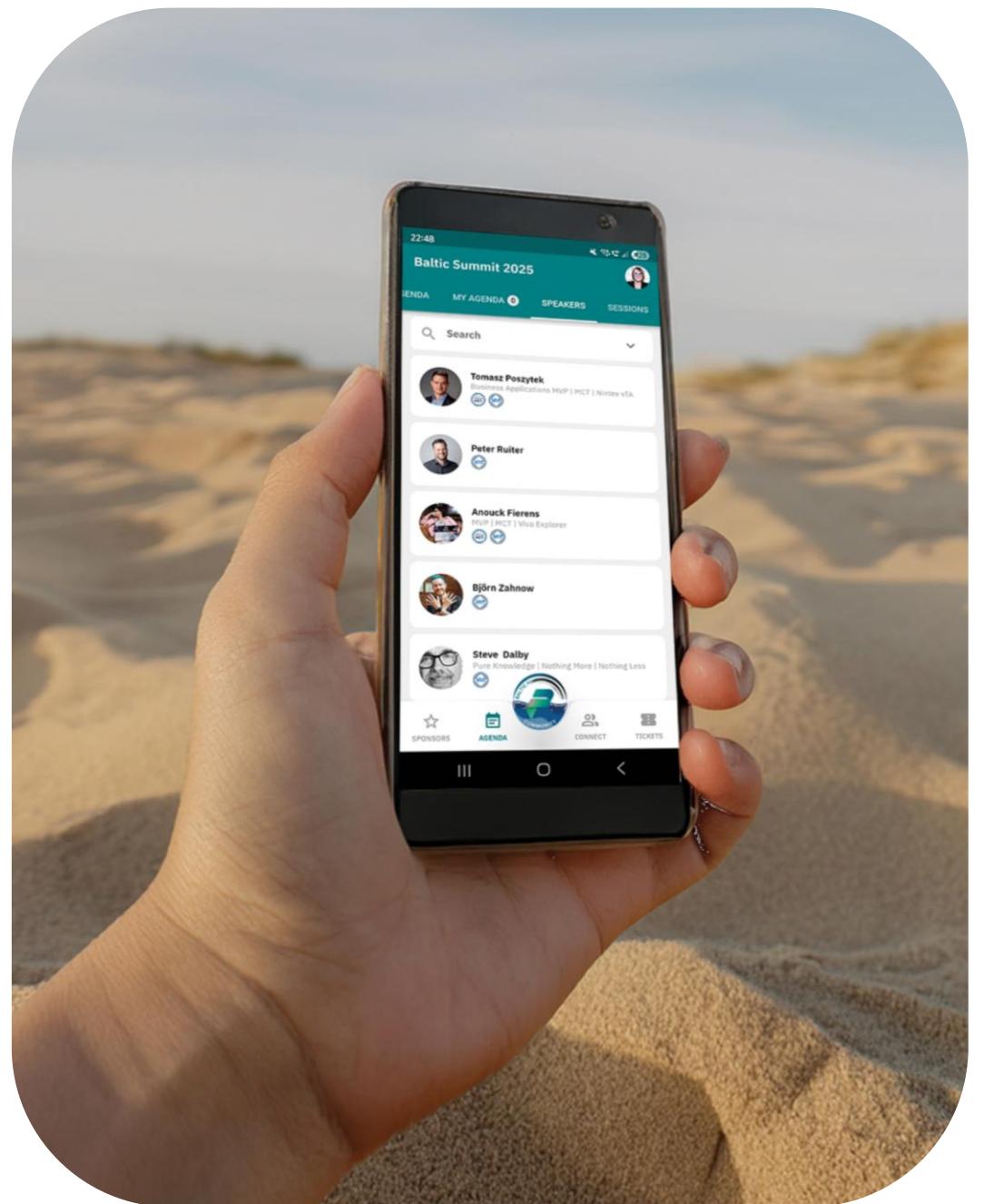


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PLEASE RATE THIS  
SESSION IN THE APP

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