




Mini- Cases in Automation: Part 2

Adv. Advisory | ACCTG 528 | Class 08
MPAcc Class of 2026

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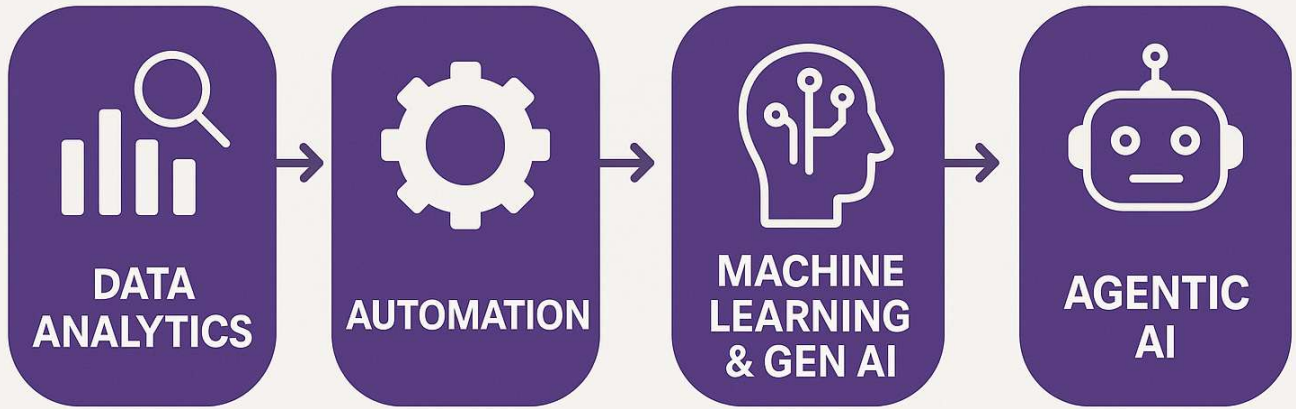
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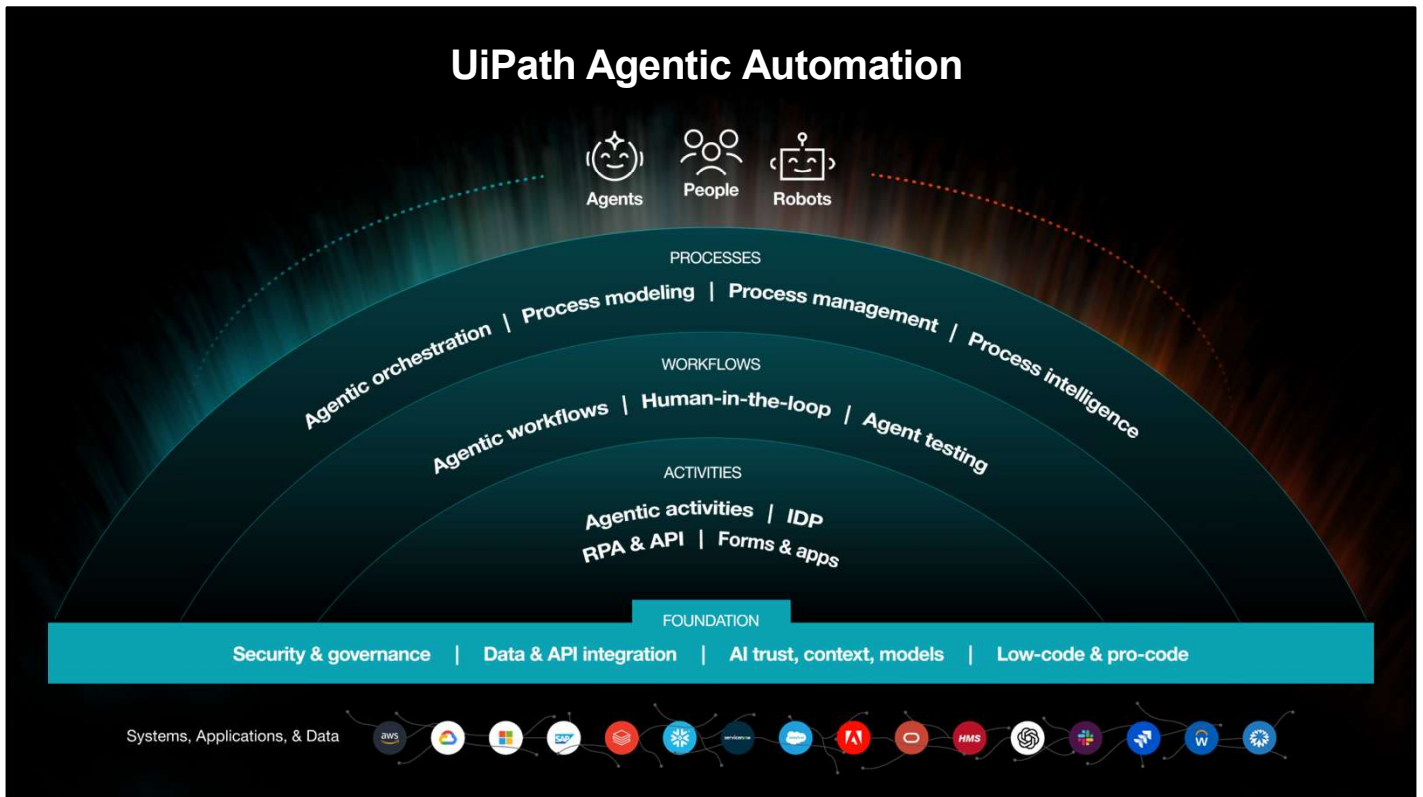
What will we do today?

- **Review**
 - **Mini-Cases**
- Admin: Final Project Teams & Topics
- RPA Mini-Case 3
 - Start with Mini-Case 1 (Monday) Web to spreadsheet
 - Update to include Governance & Logging
- RPA Mini-Case 4
 - Web-scraping set-up (as a class)
 - Open ended workflow



Course Diagram (high-level)





- Everything happens in one place: the UiPath Platform—where AI Agents aren't just assistants, they're true work partners, transforming complexity into a seamless, orchestrated operation.

- We break it down into three powerful layers: **Activities** (the building blocks—reading, processing, integrating), **Workflows** (connecting the dots with human-in-the-loop and testing), and **Processes** (the big picture—managing, optimizing, and enhancing enterprise operations).

- Agentic Orchestration / Maestro takes automation even further—coordinating UiPath Agents, third-party AI models, people, robots, and tools into a single, intelligent system.

- Your existing systems don't need to be reinvented—our platform integrates seamlessly with your data, applications, and workflows while maintaining enterprise-grade security, governance, and AI trust.

- We're not just compatible with your tech stack—we enhance it. From cloud providers like AWS, Google, and Azure to enterprise apps like Salesforce and SAP, we turn digital chaos into a symphony of efficiency.

Looking ahead

Where do your individual and team projects go next?

Individual:

- Appropriate identification rules-based automation
- Selection of appropriate automation spectrum model

Team:

- Appropriate mix of RPA, Agent, and human in the loop
- Selection of best cases for agent decision enhancement

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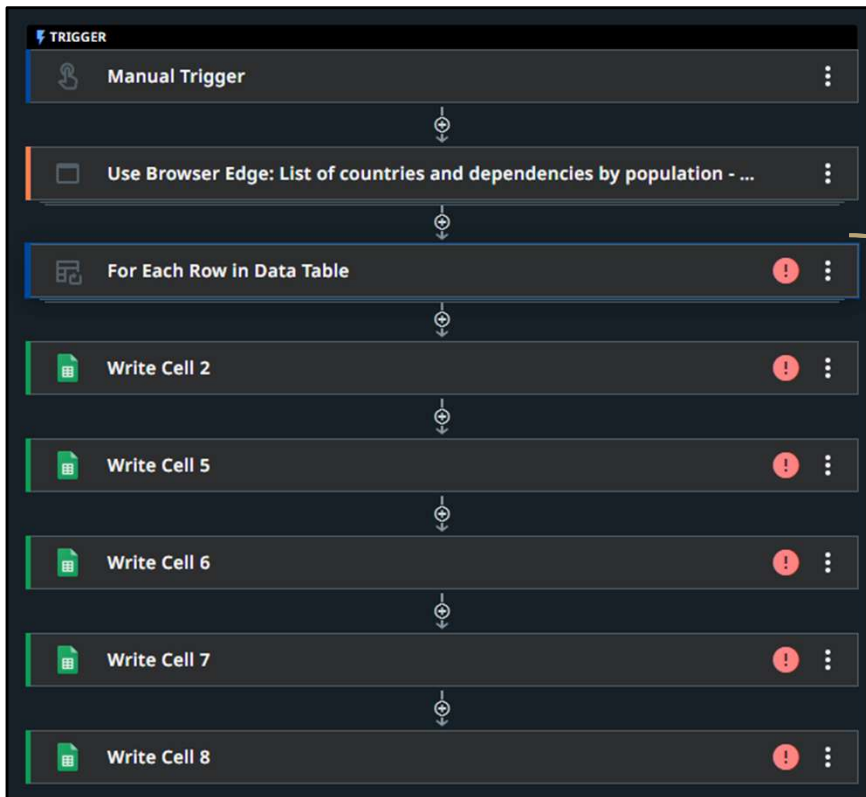
RPA Mini-Case 3

- Input data: Wikipedia Table of World population by Country
- Output data: A spreadsheet with numerical populations for the top 20 countries by population, a sum of the top 20 countries population, and a percentage of the world's population.
- **Add steps to log key elements of the workflow, how do we know that the robot is running effectively and as planned?**
 - **Governance: Are we getting the correct output? Has someone changed the workflow from what we were expecting?**
 - **Logs: Checking key steps in the bot are operating correctly using a log.**

List of countries and territories by total population

	Location	Population	% of world	Date	Source (official or from the United Nations)	Notes
	World	8,232,000,000	100%	13 Jun 2025	UN projection ^{[1][3]}	
1	India	1,417,492,000	17.2%	1 Jul 2025	Official projection ^[4]	[b]
2	China	1,404,890,000	17.0%	31 Dec 2025	Official estimate ^[5]	[c]
3	United States	341,784,857	4.1%	1 Jul 2025	Official estimate ^[6]	[d]
4	Indonesia	288,315,089	3.5%	31 Dec 2025	National annual projection ^[7]	
5	Pakistan	241,499,431	2.9%	1 Mar 2023	2023 census result ^[8]	[e]
6	Nigeria	223,800,000	2.7%	1 Jul 2023	Official projection ^[9]	
7	Brazil	213,421,037	2.6%	1 Jul 2025	Official estimate ^[10]	
8	Bangladesh	169,828,911	2.1%	14 Jun 2022	2022 census result ^[11]	[f]
9	Russia	146,028,325	1.8%	1 Jan 2025	Official estimate ^[13]	[g]
10	Mexico	131,001,723	1.6%	31 Dec 2025	National quarterly estimate ^[14]	
11	Japan	122,850,000	1.5%	1 Mar 2026	Monthly national estimate ^[15]	
12	Philippines	114,123,600	1.4%	1 Jul 2025	Official projection ^[16]	
13	Democratic Republic of the Congo	112,832,000	1.4%	1 Jul 2025	UN projection ^[17]	
14	Ethiopia	111,652,998	1.4%	1 Jul 2025	National annual projection ^[18]	
15	Egypt	107,868,296	1.3%	1 Jul 2025	Official estimate ^[19]	
16	Vietnam	102,300,000	1.2%	31 Dec 2025	Official estimate ^[20]	
17	Iran	86,563,000	1.1%	20 Mar 2025	Official projection ^[21]	
18	Turkey	86,092,168	1.0%	31 Dec 2025	Official estimate ^[22]	

	A	B
1	Location	Population
2	India	1417492000
3	China	1404890000
4	United States	341784857
5	Indonesia	288315089
6	Pakistan	241499431
7	Nigeria	223800000
8	Brazil	213421037
9	Bangladesh	169828911
10	Russia	146028325
11	Mexico	131001723
12	Japan	122850000
13	Philippines	114123600
14	Democratic Republic of the Congo	112832000
15	Ethiopia	111652998
16	Egypt	107868296
17	Vietnam	102300000
18	Iran	86563000
19	Turkey	86092168
20	Germany	83497147
21	United Kingdom	69487000
22	France	69081996
23		5644409578
24		
	World Population	8232000000
	Proportion of Top 20 Countries	68.56668584



Starter file:

- Import to studio web
- Process flow is set-up
- Red warning signs indicate an unconfigured step

In the bot, identify:

- How to set-up governance & logging, activity hints:
 - Comment (adds a message to the workflow but doesn't trigger any changes in the workflow)
 - Write line (writes a message to the console)
 - Assign (stores or updates a variable)
 - Output to only console or have a backup to another other document (e.g., google docs)

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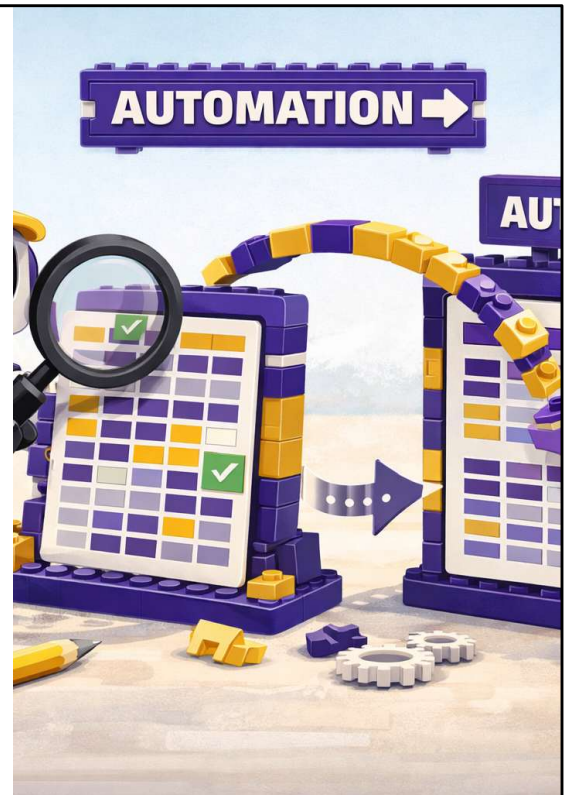


RPA Mini-Case 4

- **Map out a use case for data scraped from the web, and implement it.**
- **As a class we will start by scraping S&P500 constituent data from Wikipedia.**
- **Repeat these steps with another website of interest.**
 - **What is next in the process to make this data useful?**
 - **Implement as much as possible adding a comment on the next steps you would use when time is up.**

Where we will go next

- RPA
 - Manipulation of files, components
 - Triggers, Controls, Governance
 - Costs and benefits of RPA
- Agentic
 - BPMN revision and extension
 - Tasks for RPA versus Agent
 - Advanced Prompt Engineering
 - Scalability



Thank you

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