



Americas Virtual Meetup #11 Engineering, MQ, & App Builder

September 14, 2022



Meetup Agenda

1

Welcome & Introductions

2

Meetup Format / Schedule

3

Outline of Today's Session

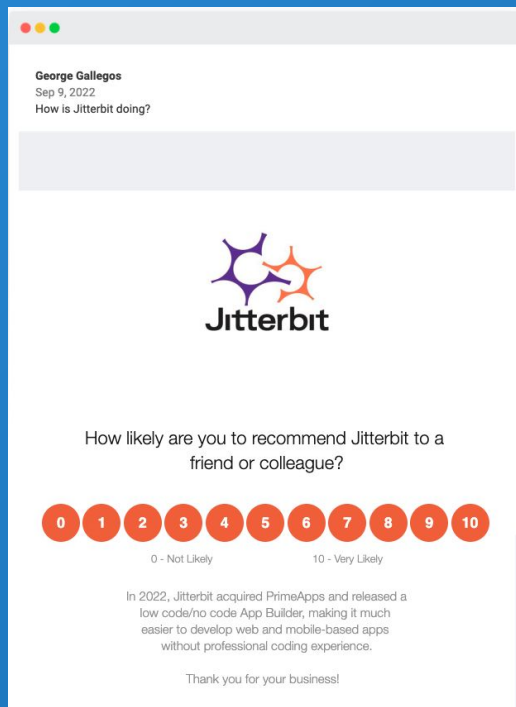
4

Technical Presentation

5

Q&A / Feedback

SCHEDULE



Previous Virtual Meetup available on Success Central:

- Advanced Resources >> [Jitterbit Customer Workshops](#)

Agenda for September 14:

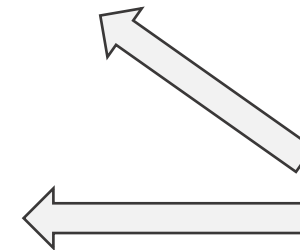
- Engineering development update - Manoj Chaudhary
- Intro to Message Queuing - Tomydas Pall
- App Builder - Jaime Delgado & Mayank Bhasin

Event Schedule:

- Next: December 21, 2022
 - What should we cover? What would be valuable?

Topics/Themes:

- Enablement, Best Practice & Top Tips
- Product Demos
- Cloud Studio & API's
- Real-time Dashboards
- System Monitoring



Jitterbit Presents

App Builder Hackathon

Next September Event!

Virtual App Builder Hackathon

Sept 20th & 21st

When: September 20th & 21st

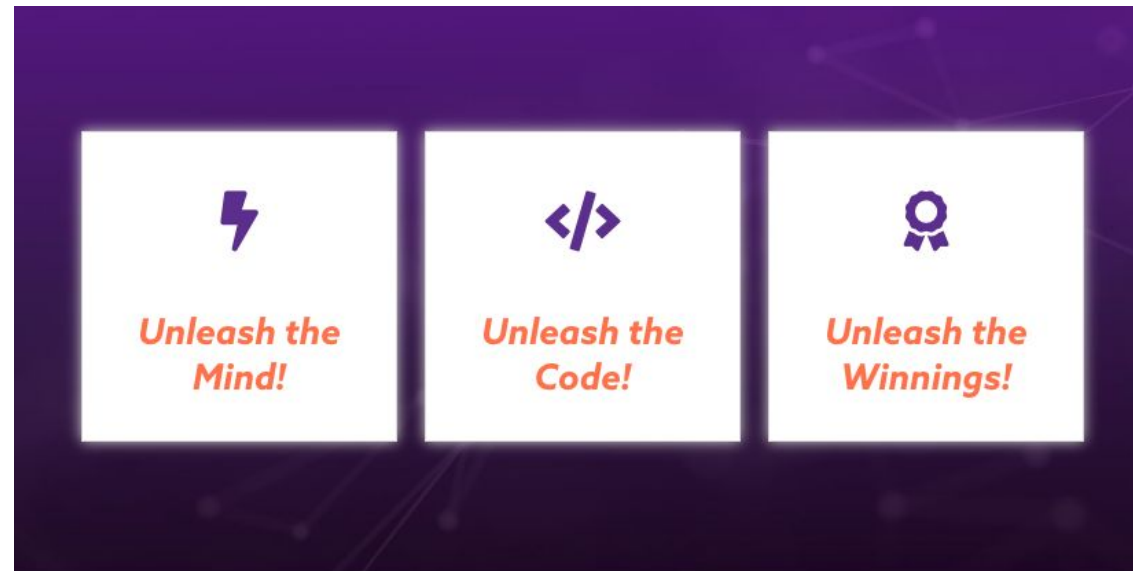
First ever **Low-Code App Builder Hackathon!**

<https://www.jitterbit.com/low-code/jitterbit-hackathon>

Lunch, prizes, good conversation and lots of fun.

Participation entitles you to a \$50 Doordash lunch credit, Jitterbit Hackathon swag and a chance to win prizes for you and your company.

Ask your CSM info to register - Pick either 9/20 or 9/21 when you register



**Join us for Jitterbit's 2022 Low-Code App Builder
Hackathon Challenge!**

TODAY'S SPEAKERS

PROFILE

Manoj CTO & SVP of Engineering

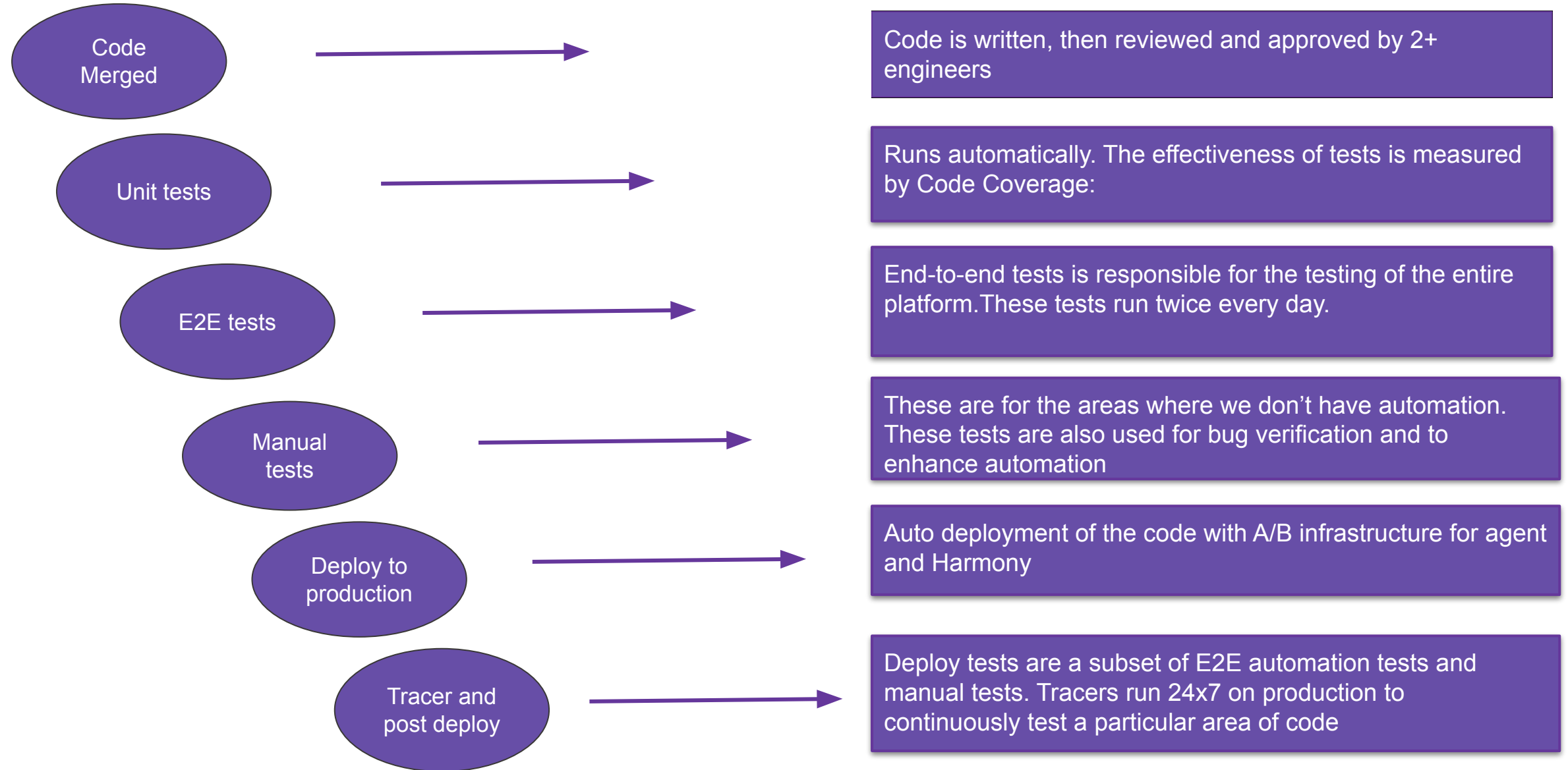
Manoj Chaudhary is the Chief Technology Officer and Senior Vice President of Engineering, leading the technical side of product strategy as well as technology development and operations. Prior to this role, Manoj involved with Jitterbit as a technical adviser, helping to guide the company's pioneering transition to a multi-tenant cloud architecture.

Manoj has previously worked as CTO and VP of Engineering for Loggly and Tenfold and served as Director of Engineering at Cast Iron Systems leading up to and following its acquisition by IBM.

Harmony

- Harmony deployed in 3 geographical locations NA, EMEA, and APAC
- Each Geo has redundancy built with multi-region deployment
- Infrastructure is primarily containerized
- Millions of lines of code, 1000's of containers, 100's of VMs
- Code gets deployed to production after every sprint

Software Lifecycle at Jitterbit



TODAY'S SPEAKERS

PROFILE

Tomydas Pall SENIOR PRODUCT MANAGER

Tomydas is a product manager in Jitterbit and is responsible for Jitterbit Platform, API Manager, Analytics, and Product Partnerships.

Tomydas has extensive experience in Cloud/Enterprise product management, Business Intelligence, System Integration, and ERP/CRM.

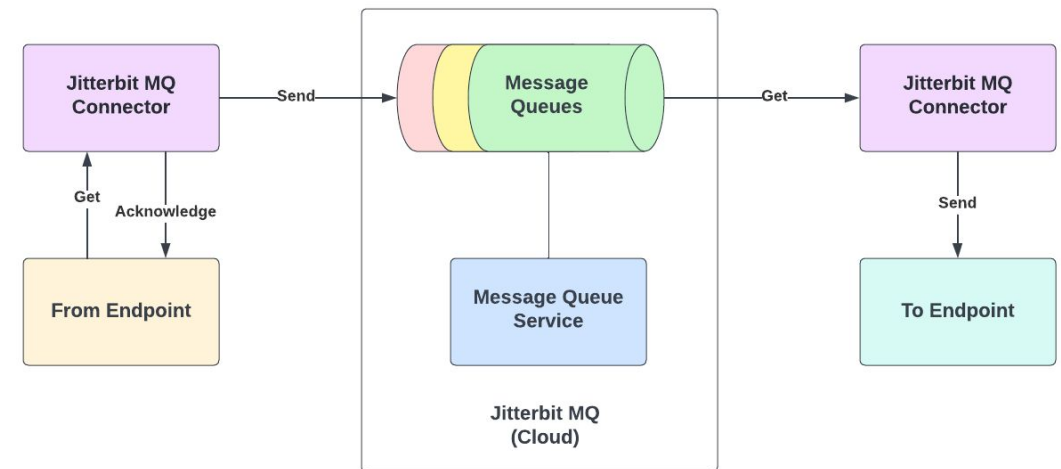
Jitterbit Message Queue (Jitterbit MQ)

Jitterbit MQ

- A cloud based multi-tenant messaging queue service made available on the Harmony Platform

Capabilities

- Queue Creation and Management
 - Message queue types - Classic and Quorum queues
 - Configurable queue options - TTL, Length, size, etc.
 - Single/bulk message processing
 - Acknowledgements - Auto, Explicit and Nack
 - Point to Point messaging
- Cloud Studio Integration
 - Built-in Jitterbit MQ Connector
 - Endpoint access to Message Queues
 - Supports Get, Send and Acknowledge
- Security
 - Queues scope segregated by Environment
 - Endpoint Access to queues secured by Authentication tokens
 - Message encryption during transit and at rest



Jitterbit Message Queue (Jitterbit MQ)

Jitterbit MQ Administration

- Via Management Console
 - Environment level messaging access
 - Administer Queues, Tokens, etc.
 - View stats on queues

Jitterbit MQ Components

- Jitterbit Message Queue Service
- Jitterbit MQ Connector
- Message Queues (Cloud hosted)

Availability

- Beta version - October, 2022*
- GA - End of Q4, 2022*

*tentative

The screenshot displays the Jitterbit MQ Management Console interface. At the top, there are tabs for 'Message Queues', 'Authentication Tokens', and 'Settings'. Below the tabs is a search bar with a placeholder 'e.g. queryname=queryname;' and a magnifying glass icon. A refresh indicator shows 'Last refreshed 1 minutes ago'. The main content is a table of message queues with columns: Name, Type, Status, Durability, Environment, Total Messages, Ready Messages, and Unack M. The table lists several queues with varying statuses and environments. An 'Add Queue' dialog box is open on the right, allowing users to create a new queue. The dialog includes fields for 'Queue Name*', 'Type*' (set to Classic), 'Durability*' (set to Durable), and 'Environment*' (set to --Select--). It also has checkboxes for 'Auto Delete' and 'Lazy Mode', and input fields for 'Message TTL(ms)', 'Message Limit(msgs)', and 'Size Limit(bytes)'. At the bottom of the dialog are 'Cancel' and 'Save' buttons. Below the main console screenshot is a mobile application interface showing a search bar with 'JitterbitMQ', an 'Endpoints' section with a 'Jitterbit MQ Endpoint' card, and three action buttons: 'Acknowledge', 'Get', and 'Send'.

Name ↓	Type	Status	Durability	Environment	Total Messages	Ready Messages	Unack M
Message Queue One	Classic	Active	Durable	Dev	123	89	0
Message Queue Test	Classic	Active	Durable	QA			3
Second Message Queue	Quorum	Active	Transient	Production			
Third	Classic	Inactive	Durable	Production			
Another Queue	Quorum	Black-listed	Transient	QA			
Testing Queue	Classic	Active	Transient	Dev			
MySecondOperation	Classic	Active	Durable	Dev			

TODAY'S SPEAKERS

PROFILE



Jaime Delgado
SENIOR CUSTOMER
SUCCESS ARCHITECT

Jaime has 15 years of experience in the cloud application and integration technology space helping organizations through digital transformation and automation of processes. Jaime's interests are in advising organizations maximize their use of APIs to drive innovation and value for their customers.



Mayank Bhasin
SENIOR CUSTOMER
SUCCESS ARCHITECT

Mayank is an Enterprise Data Integration Architect by trade who has lead successful technology campaigns including software development and sales, business process improvements, data warehouse modernization on-prem and on-cloud, platform modernization on-prem and on-cloud, data engineering and streaming architectures, data governance, enterprise data cataloging, self-serve data-prep, and data science and advanced analytics; over 17 years of experience and focused mainly on healthcare, retail and utilities industries.

Today's Meetup

OUTLINE / OVERVIEW OF SESSION

Learnings

Jitterbit App Builder and Harmony Integration

1. App Builder Stand Alone App
2. App Builder integrates with a Jitterbit Custom API(service layer model)
3. App Builder integrates with an external API(service)

App Builder Stand Alone App

- **App Builder**

- Domain Model

- Modules, Relations, Dropdowns, Dependencies

- Application Logic

- Microflow

- get executed on the backend whenever a certain event occurs (define business logic)
- can communicate with Harmony and external systems
 - find record (from another module), create record, delete record, set values, etc.

- UI flow

- get executed on the client side whenever a certain event occurs
- enable rich user experience
 - wait, decide step, loop step, find record, refresh data, etc.



- Configuration

- SMTP information
- Parameters / Global Variables, Menus, Localizations
- Branding, Identity, Email Templates

- Development

- Creating a Package
- Releasing an App
- URL to login to the App UI

App Builder Stand Alone App..... contd.

- **App UI**

- Dashboard
- Audit Trail

<input type="checkbox"/> Log Id	Module	Source	Operation	Status	Duration	Start Date	
<input type="checkbox"/> a2a2317f-6aa8-40d4-a9e1-c1e08f5d2521	NA Leads	North Americas Lead Submission in Salesforce	Microflow	Completed	1.485	8/26/2022 1:38 PM	⋮
<input type="checkbox"/> 8dd8b09f-03a4-4035-9f28-0e68cc040e12	NA Leads	North Americas Lead Submission in Salesforce	Microflow	Completed	1.415	8/26/2022 1:11 PM	⋮

- **Profiles**

- Administrator
- App User

ID: 5000001 | Owner: Mayank Bhasin

Profile Name: App User Required

Menu and Profile Settings

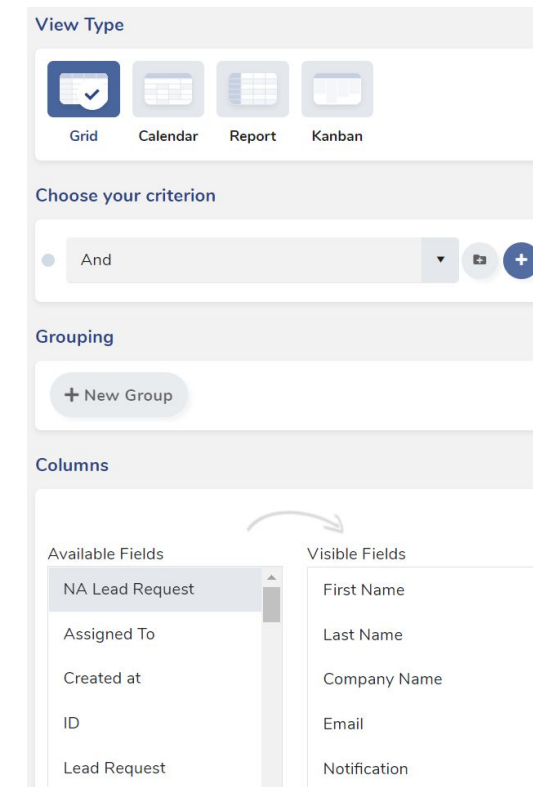
Select visible menu on this profile Required

App User Menu

- Dashboard
- NA Leads
- Profiles
- Employees
- Audit Trail

App Builder Stand Alone App..... contd.

- **App UI** (contd.)
 - Employees
 - Assign appropriate profile to selected employees
 - Module
 - Module based on the use case
 - App user to enter and receive information
 - Views
 - Customize view settings for the information entered in the App (grid, calendar, report, kanban)
 - <https://success.jitterbit.com/display/APP/Views>
 - Administration
 - Templates
 - User email templates
 - Documents and spreadsheet templates
 - Notifications
 - Import History
 - Email Accounts
 - can be accessed only by users that are part of a fully authorized profile



App Builder integrates with an Jitterbit API (service)

- **Jitterbit API**

- App Builder <> Harmony integration using App Builder Microflow
- API call using the URL generated by Jitterbit API Manager (APIM)
 - allows communication with Harmony and external systems (ex: SFDC, NetSuite, etc.)
 - allows defining business logic for the apps
- Define input / output parameters (to be used in Cloud Studio operation) within the Microflow 'Call API' feature
- Enables integrated view with information from multiple external systems



Call API Cancel Save

Source
 From API Manager From URL

API Required
CSA Get Account Details

URL
POST <https://jitterbitTRIAL647330.jitterbit.net/app-development/1.0/cs>

Header Key
You haven't added any header key yet.

Input Parameter

Key	Value
accountName	[CustomerInvoices].[customer] 🎯 🗑️

Output Parameter

Key	Value
[Flow].[combined] 🎯	combined 🗑️

App Builder integrates with an Jitterbit API (service)..... contd.

- Ist API call

- Call to Harmony API
(SFDC query and retrieval)

The screenshot shows a web interface for a customer record titled 'Edge'. At the top right, there is a 'Check \$ Balance' button and several utility icons. The 'General' section contains two input fields: 'CustomerName' with a 'Required' label and 'Balance'. The 'CustomerName' field contains the text 'Edge'. Below this is the 'Details' section, which contains a 'CustomerDetail' field with the text: 'Name: Edge Communications | Type: Customer - Direct | CSM: Vanessa Bundura | Owner: Adam Battye | Status (RYG): Red | SFID: 0018a00001p99qcAAA'.

- IInd API call

- Call to Harmony API
(NetSuite search and retrieval)

This screenshot is identical to the one above, but the 'Balance' field is now populated with the value '\$ 45000'. All other elements, including the 'CustomerName' field and the 'Details' section, remain the same.

App Builder integrates with an external API (service)

- **External non-Jitterbit API**

- Simple configuration with External APIs
- Process
 - Similar App Builder steps presented earlier
 - Integrate with other REST APIs
 - Support for HTTP Verbs
 - GET, POST, DELETE, PUT

The screenshot shows the 'Call API' configuration screen. At the top right, there are 'Cancel' and 'Save' buttons. The main configuration area includes:

- Description:** A text field containing 'Call API'.
- Source:** Two radio buttons: 'From API Manager' (unselected) and 'From URL' (selected).
- Webhook URL:** A dropdown menu set to 'GET' and a text field containing 'https://world-population.p.rapidapi.com/population'.
- Header Key:** A table with two columns: 'Key' and 'Value'. It contains two entries:

Key	Value
X-Rapidapi-Host	world-population.p.rapidapi.cc
X-Rapidapi-Key	f8a71b0f82msh86ef8c533e735
- Input Parameter:** A table with two columns: 'Key' and 'Value'. It contains one entry:

Key	Value
country_name	Jordan
- Output Parameter:** A table with two columns: 'Key' and 'Value'. It contains one entry:

Key	Value
population	population

App Builder integrates with an external API (service)

- **External non-Jitterbit API**

- Simple configuration with External APIs
- Process
 - Similar App Builder steps presented earlier
 - Integrate with other REST APIs
 - Support for HTTP Verbs
 - GET, POST, DELETE, PUT

The screenshot shows a configuration page for an external API service named 'Jordan'. The page has a header with a back arrow and the name 'Jordan', and a toolbar with icons for refresh, email, mobile, trash, and lock. Below the header is a 'General' section. The 'Name' field is labeled 'Name' and has a red 'Required' tag; the value 'Jordan' is entered. The 'population' field is labeled 'population' and has the value '10203134'. The 'ranking' field is labeled 'ranking' and has a dropdown menu with the value '231' selected.

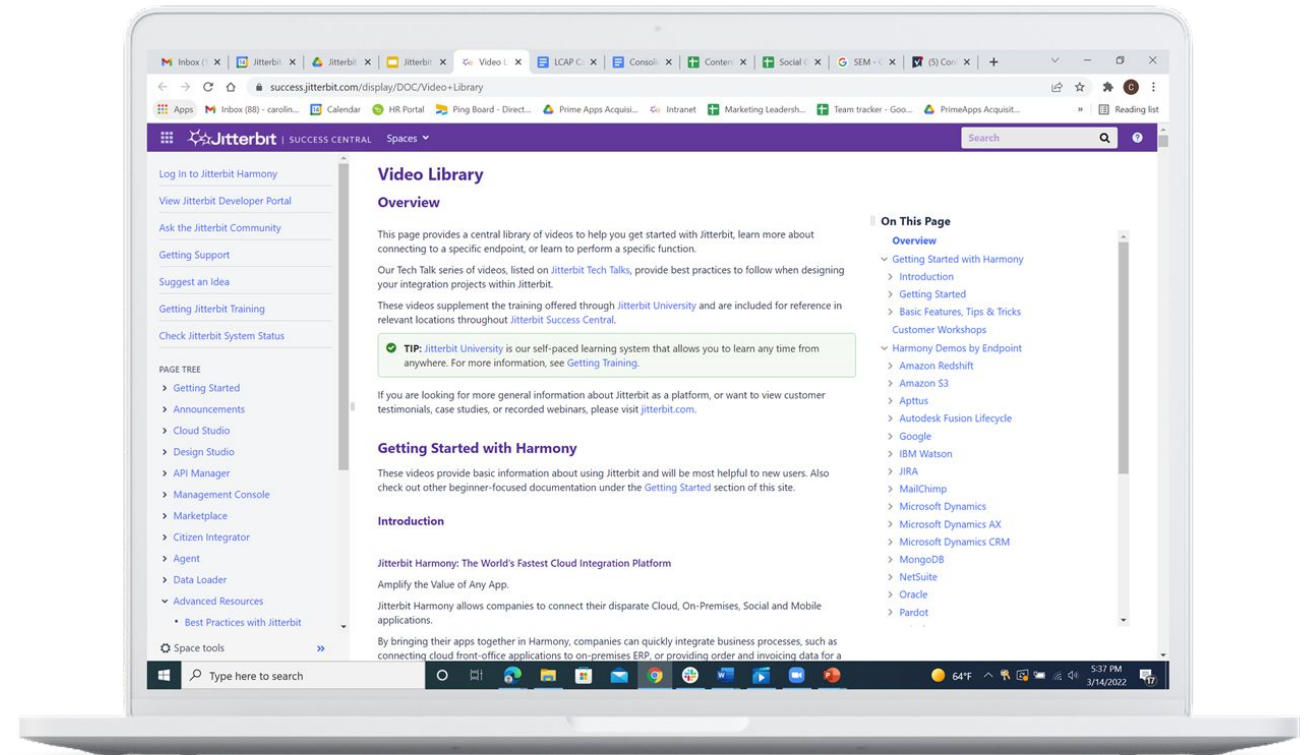
Other Ways to Get Help from Jitterbit

Interested in any of the following ⇒ Please reach out to your CSM:

- Learn more about App Builder and discuss how it might be applicable to your organization
- Best Practices session with Customer Success Architect (CSA)
- Health Check review with CSA
- Architecture assessment with CSA or TAM (Technical Account Manager)
- Working session with CSA for Jitterbit examples and/or development activities
- CSA office hours every Wednesday @ 10am Pacific Time
- Customer workshops or customized training with CSA or TAM (customized to your use cases)
- **Contact:**
 - <https://success.jitterbit.com/>
 - Unsure who your CSM is ⇒ email Success@jitterbit.com or phil@jitterbit.com

Other Ways to Get Help from Jitterbit Cont'd.

- [Integration Project Methodology](#)
- [Advanced Resources](#)
- [Getting Started](#)
- [Getting Training](#)
- [Jitterbit Customer Workshops](#)
- [Video Library](#)
- [Jitterbit Developer Portal](#)
- [Ask the Jitterbit Community](#)
- [Submit a Support Case](#)
- [Check Jitterbit System Status](#)



A woman with long dark hair and glasses, wearing a white t-shirt, stands in the center of a meeting room. She is pointing towards a whiteboard covered in numerous colorful sticky notes (pink, yellow, and orange). Several people are seated around a table in the foreground, looking towards her. The room has large windows with blinds on the left. The overall scene is a professional meeting or presentation.

Q & A

QUESTIONS & FEEDBACK