



EXTENDING FUSION CLOUD ERP WITH APEX, A REAL-WORLD EXAMPLE





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APEX



ORDS



EBS & Fusion



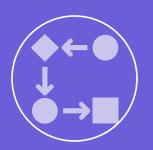
Database







Business Case



Solution



Demo



Business Impact





Business Case



BUSINESS CASE

As a controller,

I need the ability to consistently account and record all transactions affecting cash flow

so that I can dynamically model the fully loaded cashflow statement in near real time <u>during period</u> <u>close</u> (3 days)

and prepare to <u>tell the stories</u> to my stakeholders at close.





BUSINESS CASE

My key acceptance criteria are:

- Enable posting to Extra segment in the CoA
 for only valid account combos to drive
 consistent cashflow reporting lines.
- 2. Allow manual journals against accounts controlled by sub-ledgers with elevated approval.
- 3. Journal can be entered via web interface or upload from Excel workbook.
- 4. Provide visibility to journal status in real-time without having to log into Oracle Fusion.







WHY WE SELECTED APEX

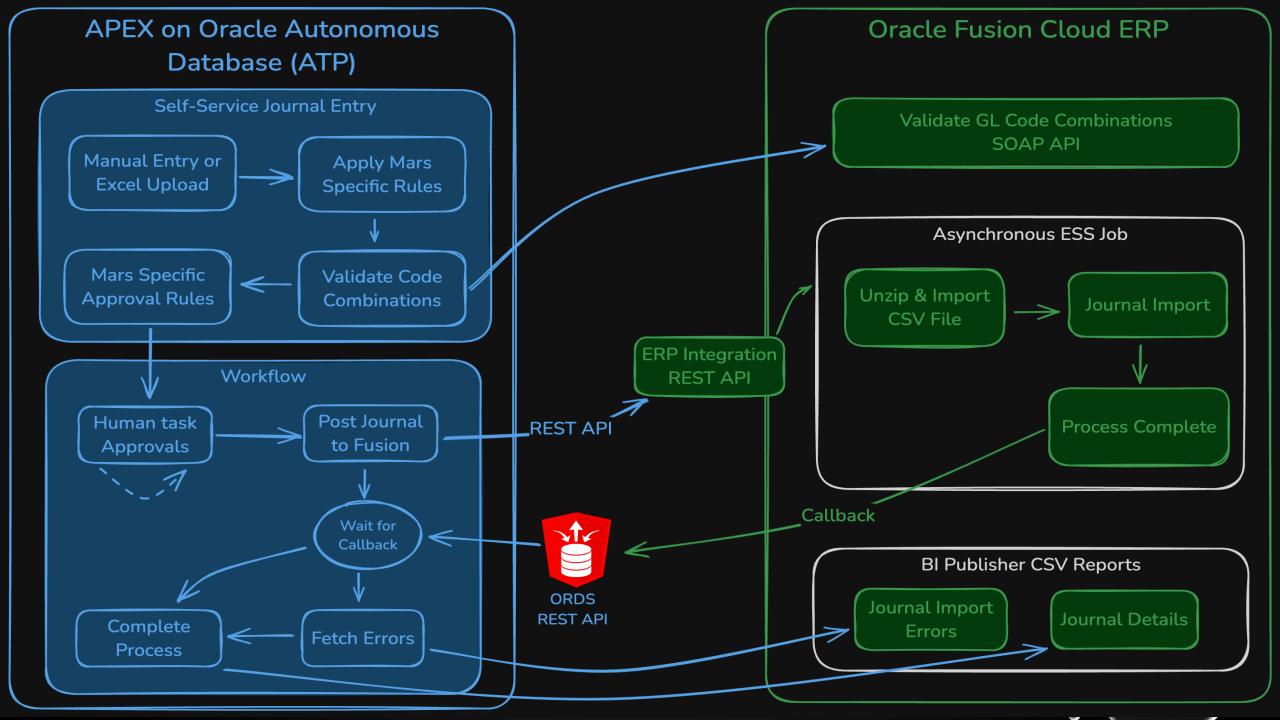


- 1. Rapid development and deployment in 8 weeks
- 2. Low code, low maintenance
- 3. Leverage existing Autonomous Database no additional cost for user license
- 4. Real time integration with Fusion using public APIs
- 5. Dynamically scale ADB performance to support high transaction volume during period close
- 6. Easily supported by existing team with SQL knowledge



-SNUEVA

The Solution







TECHNOLOGY













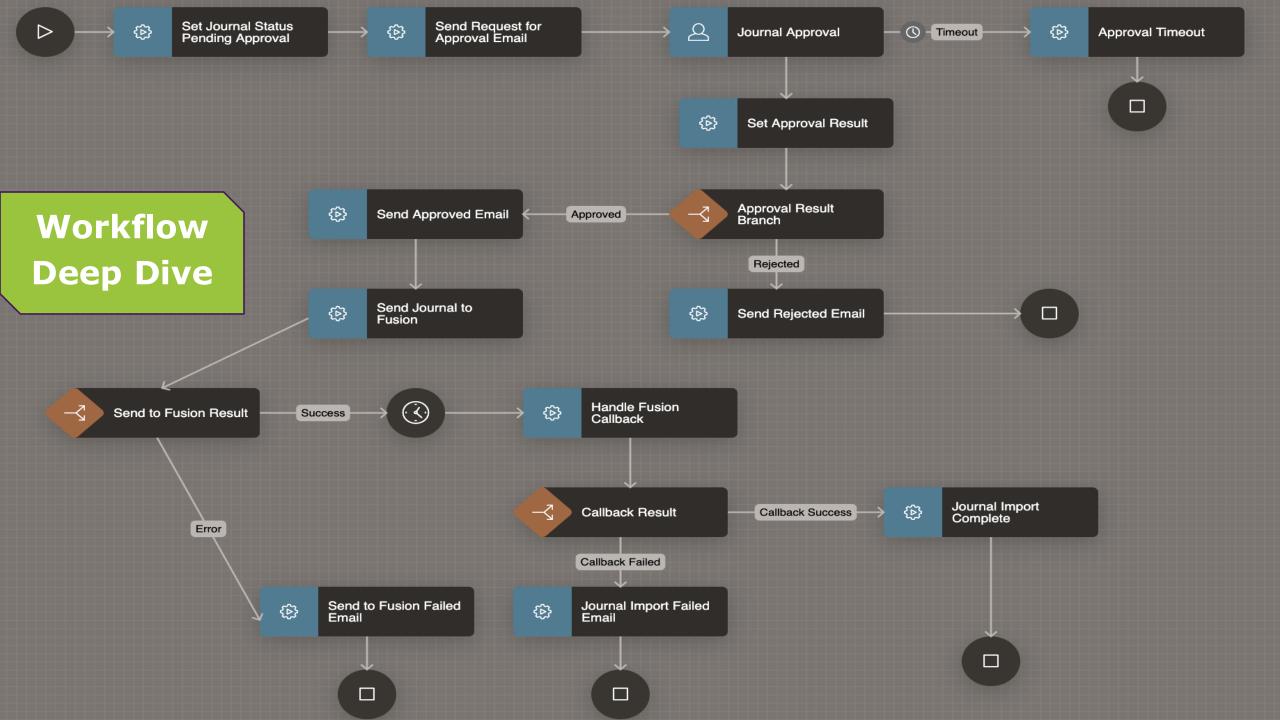
- Oracle APEX on OCI ATP Database
- Okta for Single Sign-On
- Oracle REST Data Services (ORDS)
- OCI Email Delivery Service
- PL/SQL for Business Logic







- APEX Automations Scheduling
- APEX Workflow Approval & Orchestration
- Fusion REST Data Sources Real-Time Access
- APEX_WEB_SERVICE REST & SOAP APIs
- APEX_DATA_PARSER Parse Excel Uploads
- APEX_ZIP ZIP FBDI Files
- APEX_MAIL Notifications





FUSION INTEGRATION DEEP-DIVE



- Ledgers, BUs, Value Sets, GL Periods...
- Improve performance of APEX reports

Code Combination Validation

- Validate against a locally synced Combo table (1.5m) first
- Validate Code Combinations Before Batch Submission
- SOAP API fscmService/AccountCombinationService

ERP Integration REST API

- One-stop shop for Journal Import
- REST API fscmRestApi/resources/11.13.18.05/erpintegrations

REST SOURCE SYNC?



FUSION INTEGRATION DEEP-DIVE

- Add Journal Attachments
 - SOAP API fscmService/ErpObjectAttachmentService
- Custom BI Publisher Reports
 - Query failed journal lines
 - Query batch details of newly created batch
 - SOAP API xmlpserver/services/ExternalReportWSSService
- Oracle REST Data Services (ORDS)
 - ESS Job Callback API





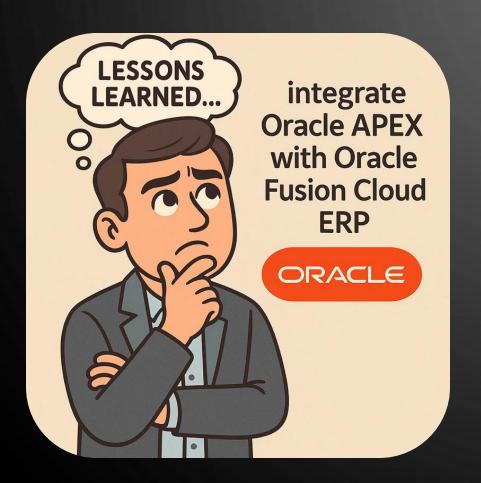
Demonstration

Create a Fusion Journal from a Spreadsheet







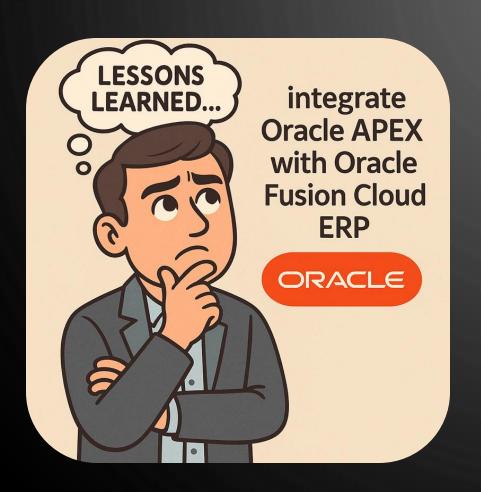


- Integration Logging
 - Log Inbound & Outbound Requests
 - Log payloads
 - APEX UI to Query Logs
- Workflow Monitoring
 - Identify stuck workflows
 - Diagram In-Flight Workflows



LESSONS LEARNED



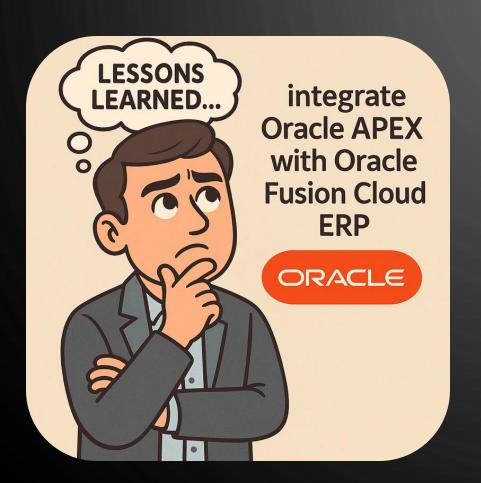


- Deployments
 - Re-Start Suspended Workflows
 - Re-Start APEX Automations
- Open Door Credentials
 - Enable for Testing
- Only hit a Web Service when one you need to



LESSONS LEARNED





- Email Override / Whitelist
- Remote Servers to Store URLs
- Clear Error Messages
- User Help Pages
- Reset Option For Admins



NEW FUSION FEATURES IN APEX 24.2

New in 24.2

Button Click SSO to/from Fusion Apps & APEX running in OCI

REST Source Support for Boss Style REST APIs (/api/boss)

White Paper: Extending Oracle Fusion Cloud Applications Suite using Oracle APEX

Each year the APEX
Team delivers significant
improvements to the
integration between
APEX & Fusion Apps





Business Impact





BENEFITS REALIZED



- **Controlled Approvals** Elevated manual journal approvals sub-ledger-controlled accounts strengthen financial controls and compliance.
- Consistent Reporting Enforced valid account combos ensure reliable financial statements.
- Efficient Journal Entry Seamless web and Excel-based journal submissions streamline workflows.
- Instant Status Visibility Real-time tracking eliminates the need to log into Oracle Fusion.





CONTINUING APEX JOURNEY



Expanding APEX Use Cases:

- ✓ Master & Reference Data Management Ensure centralized control & governance
- ✓ Document Archiving & Management Streamline access & retention policies
- ✓ Hospital Equipment & Inventory Tracking Enhance asset visibility & efficiency

Accelerating Adoption with Key Feature Enhancement:

- Excel Cut & Paste into Interactive Grid A game-changer for user efficiency and adoption
 - A highly requested feature for several years
 - Planned for Future Release Since 2022

https://apex.oracle.com/ideas/FR-2479



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