BP CPT (Common Process Transformation) Project

Business problem: Transform BP processes & project requirements across different oil & gas refineries (e.g., BP Gelsenkirchen, Cherrypoint) to follow common standards

BP Gelsenkirchen
3.9 ★★★★☆ (38) ⓘ
Oil refinery · Pawiker Str. 30
Open 24 hours · 0209 3660
Website   Directions

Ruhr Oel GmbH
4.3 ★★★★☆ (39) ⓘ
Oil refinery
0209 3660
Website   Directions

BP CPT project workstreams overview to build a CPT digital tool to solve business problem:

1. Process Architecture: Team of 3 (1x Process Architecture lead, 2x Business Analyst)

2. User Experience & Discovery: Team of 2 (2x Sr. Product Designer)

3. Communications & Quick Start Guides: Team of 2 (1x Comms Lead, 1x QSG Lead)

4. **Data & Architecture**: Team of 3 (1x Lead Architect, **1x Data Manager (Krishna Damarla)**, 1x Data Engineer)

5. Implementation: Team of 10 (5x Front & Back end, 3x Test, 2x DevOps)

6. Strategy & Planning: (1x CPT Delivery Lead, 1x PO & Implementation Lead, 1x Squad Lead)
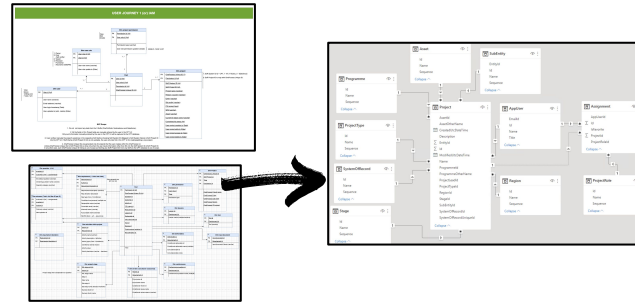
Common Process
Transformation

Epic(s): Data & Architecture

SPRINT 29 GOAL: Alignment with database development team , Solution decision document updates with AD's. New UI/UX wireframe technical feasibility check. Validate Cosmos / SQL / CacheDB . Data Validation & Mapping updates for 1P, Nostra, SF. Data validation rules for selected user stories.

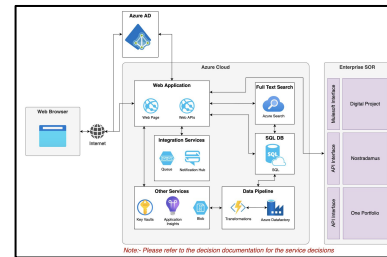# What we did: ➜ Value it adds: ➜ Relevant milestone:

Data Model

- As a data manager, I monitor the database development & act as bridge between business & technical team.

- Transformation from model first to code first approach due to frequently changing requirements, attributes

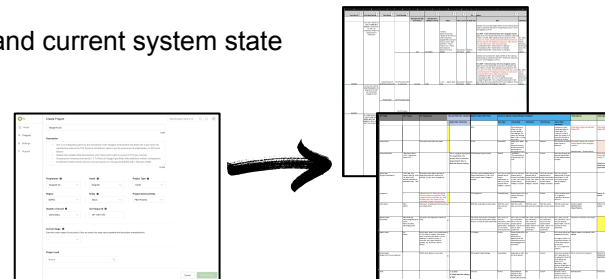- Automation of database objects creation with EF Core

- Provides schema & stores the data captured in front end UI screens to backend Azure SQL database.

◆ **Data** Modelling

Architecture & Solution Design

- Introduced Azure search capabilties (full text search / auto completion)

- Aligned with Frontend design, Business & Digital Security team for UI technical feasibility checks, data classification and CIA rating

- Supported architect in documenting key architectural decisons (IAM roles permissions & groups in AAD, data storage & integration services)

- Captures AD to support the dev team with implementation
- Productionalize CPT digital tool

◆ Solution Design

Data Validation, Mapping & Automation

- Conducted workshops with source system owners to understand current system state

- Wrote data Validation Rules for "Create Project" Screen

- Guided DE in mapping CPT fields w/ 3 sources systems

Requirements capture Automation

- Analysing Forms, PowerApps, PowerAutomate for the same

- Provides validation & mapping rules for 2 ADO user stories
- Identifies tools to automate req's capture

◆ Development