Soils Interpretations Generator EPCIS DRAFT v2 3/11/2020

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| Manage SIG Requests Epic Hypothesis Statement | |
| For | Soil Scientist |
| who | Create Soil Interpretations Models |
| the | SIG Request Management Software |
| is an | Service Request |
| that | Allows for entering, viewing, tracking request for Soil Interpretations |
| Unlike | Current method of capturing requests on personal white boards received via email or phone |
| our solution | Allows all users to enter requests, and soil scientists to track them, assign, prioritize, etc. |
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| Business outcome hypothesis: | * Majority of customer interactions visible to servicing employees * Better customer service experience |
| Non-Functionals: | * 10 ms response time for customer information screen load |

**Epic Sample Template for reference**

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| Sample Epic Hypothesis Statement | |
| For | Organizational employees |
| who | Service customers directly |
| the | Employee portal |
| is an | interactive data analytics experience |
| that | Provides the ability to understand customer interactions no matter the channel or existing store brand |
| Unlike | our existing lack of shared cross brand information |
| our solution | Provides a multi-channel view of our customers interactions |
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| Business outcome hypothesis: | * Majority of customer interactions visible to servicing employees * Better customer service experience |
| Non-Functionals: | * 10 ms response time for customer information screen load |

1. **Manage Requests for Soils Interpretations**
   1. Create New Requests
      1. Request ID – auto assigned
      2. Name
      3. Description
      4. Type of Request:
         1. New Interpretation Model
         2. Modify or Correct existing Model – choose Model to modify
         3. Version existing Model – choose Model
         4. Run Model with new data – choose model
         5. Run Model with special Data – choose model
         6. Review and/or QA a new Draft Model
      5. Land Use?
      6. Scope – National, Region, State, county, office,
      7. Geographic Location if applicable. Use choice lists for state, county, office, etc
      8. Category of Model: Crop, Forest, Engineering, etc.
      9. Creator – auto – eAuth user id – might be help desk person or admin person – display the Name, not user ID
      10. Priority – High, Medium, Low or Numeric?
      11. Urgency -
      12. Creation Date of request record – auto current date
      13. Submission Date (could be earlier than request record created, white board list)
      14. Requestor – eAuth user id or other identification
      15. Requesting org – choice list
      16. Requestor User Type - Choice List: NRCS Employee, Affiliate, Producer, Partner (Institute, University, etc.)
      17. Start date
      18. End date
      19. Status – new (default), deleted, on hold, in progress, completed, QA
      20. Assigned to: user id, choice list of Names, filter to find user by typing in text
      21. Soil Science level of Expertise Needed: trainee, apprentice, journeyman, expert, …
      22. Date Completed
   2. Modify a Request – prioritize, assign, change status, etc
   3. Delete a Request
   4. View List of Requests – filter criteria for View by Category, Location, Requestor, Requesting Org, User Assigned, User submitting, Creator, etc.
   5. Aging report
   6. Prioritization report
2. **Create and Manage Soils Interpretation Models**
   1. Create and Manage Rules – i.e. PH range Normal Acid, PH Range Normal Alkaline, PH Range Neutral, PH Warning Acid
      1. Create a Rule
         1. ID
         2. Name
         3. Description
         4. Land Use?
         5. Category of Model: Crop, Forest, Engineering, etc.
         6. Creator – auto eAuth user id – display name
         7. Creation Date - auto current date
         8. Last Modified by – auto eAuth user id, display name
         9. Last Modified date – auto – current date
         10. Requestor org
         11. Start date – must be today or future
         12. End date – must be > or = start date
         13. Status – new, retired, deleted, in use, published
         14. Rule Template? Min/Max, Average, Smallest, largest,
         15. Unit of measure
      2. Modify and Version a rule
         1. Allow delete only if rule is not used
   2. Create and Manage Rule Sets
      1. Rule Set Id
      2. Rule Set Name
      3. Rule Set Description
      4. **Creator, Last Modifier, Creation date, last modified date**
      6. Theme:
      7. Rule set type: Fuzzy, Parent/child, Normal range for characteristic, Warning range for characteristic or theme, and Extreme PH ranges
      8. Rule Dependencies, parent/child, Cascading
      9. Rule set for soil ability to handle water
      10. Rule set for soil bearing
      11. Rule set for density
      12. Collection of child rules with defined relationships
   3. Create and Manage Rule Modules
3. **Create and manage Models as collection of Rule Modules**
   1. **Module ID**
   2. **Module Name**
   3. **Module Description**
   4. **Creator, Last Modifier, Creation date, last modified date**