**Overview of the Data Product:**

{

"product\_Id": "", <string>, <unique identifier for data product>

"description": "", <string>, <description for data product>

"version": "", <string>, <active version of the data product – demo or staging or live environment>  
“last\_updated\_at”:””, <date>, <date last updated>

“release\_notes”:””, <string>, <release notes about the summary of changes, new feature's introduction, etc.>

}

**Purpose and Objectives:**

{

"product\_id": "", <string>, <unique identifier for data product>

"description": "", <string>, <description for data product>

"purpose": "", <string>, <purpose of the data product>

“last\_updated\_at”:””, <date>, <date last updated>  
}

**Target** **Audience**:

{

"product\_id": "", <string>, <unique identifier for data product>

"audience\_version": "", <string>, <version of the target audience>

"audience": "", <string>, <stakeholders, roles, user segments etc.>

“last\_updated\_at”:””, <date>, <date last updated>  
"description": "", <string>, <target audience details, etc.>

}

**Document Version and Change History:**

{

"product\_id": "", <string>, <unique identifier for data product>

"version\_history": [{“version\_name”:””,<string>,<name of the version>,

“version\_number”: “”,<string>,<version number>}]  
“date\_updated\_at”:””, <date>, <documentation updated date>  
“current\_version”:””, <string>, <latest version of the documentation>}

**Product Description:**

{

"product\_id": "", <string>, <unique identifier for data product>,

"description": "",<string>,<description of the data product, etc.>,

"purpose": "", <string>, <purpose of the data product>,

"datasets": [{“dataset\_name”: “”,<string>,<name of the dataset>,

“ source”: [{“data\_source”:””,<string>,<ID of the data\_source depot>,

“data\_source\_desc”:””,<string>,<desc of the data\_source>

“dataset\_desc”:””,<string>,<description of the dataset>,

“format”:””,<string>,<the format of the dataset>,

“last\_updated\_at”:””, <date>, <date last updated>,

"schema": { "fields": [ { "name": "”,<string>,<field name>,

"type": "”,<string>,<type of the field>

"description": "”,<string>,<desc of the field>}]}]}

**Business Context and Application:**

{

"product\_id": "", <string>, <unique identifier for data product>

“usecase\_name”: "", <string>, <title for the usecase>

“usecase\_description”: "", <string>, <detailed desc of the usecase (business) >

“business\_function”: "", <string>, <department that is catered to – ops, marketing, etc..>  
“business\_application”: "", <string>, <desc about the business implications, etc.>

"description": "",<string>,<description of the business context, data product application, etc.>

}

**Expected Outcomes and Benefits:**

{

"product\_id": "", <string>, <unique identifier for data product>

"outcome\_description": "", <string>, <description of the outcome via data product>

"benefits": "", <string>, <desc of the business benefits via data product>

"description": "", <string>, <description of the business, expected outcomes, benefits etc.>

"business\_kpis": "", <string>, <quantitative kpi’s of the business, etc.>

}

**Technical Specifications of Lens:**

{

"product\_id": "", <string>, <unique identifier for data product>

"lenses": [{“lens\_id : “”,<string>,<id of the lens>,

“lens\_name”: “”,<string>,<name of the lens>,

“lens\_description”:””,<string>,<desc of lens>,

“ lens\_version": "", <string>, <version of lens>,  
 “last\_updated\_at”:””, <date>, <lenslast updated>,

“relationships”: [ { “relation\_id”: ‘’” <string>,<id of the relationship>,

“relationship\_type”: ‘’” <string>,<type of the relationship>}]

“metrics”: [{“id” : “”<string>, <id of the metric>,

“sql”: “”<string>,<sql of the metric>}]

“dimension”: [ {“id” : “”<string>, <id of the dimension>,

“sql”: “”<string>,<sql of the dimension>}]}]}

**Data Sources and Formats:**

{

"product\_id": "", <string>, <unique identifier for data product>

#"data\_source": "", <string>, <to identify the data source origin – internal or external or third-party etc.>

#"datasets": "", <array>, <list of all datasets coming under data product>

"source\_type": "", <string>, <data source type – internal or external or third party source, etc.>

"data\_accessibility": "", <string>, <how is the data accessible – file/api/, etc.>

"schema\_description": "", <string>, <dataset’s schema, table, view, fields, etc.>

"description": "",<string>,<description data sources, formats etc.>

}

**Data Volume and Update Frequency:**

{

"product\_id": "", <string>, <unique identifier for data product>

"data\_volume": "", <string>, <total vol of the dataset in the data product>

"update\_frequency": "", <string>, <times data is refreshed – daily/weekly/ etc.>

"dataset\_refresh": "", <string>, <dataset refresh status – data refresh, not refreshed, etc.>

“last\_updated\_at”:””, <date>, < dataset last updated>

"description": "",<string>,<description of the Dataset, the purpose etc.>

}

**System Requirements and Dependencies:**

{

"product\_id": "", <string>, <unique identifier for data product>

"hardware\_requirements": "", <string>, <requirements for data product>

"software\_requirements": "", <string>, <requirements for data product>

"network\_requirements": "", <string>, <network requirements for data product>

"version": "",<string>,<description of the system, the purpose etc.>

"description": "",<string>,<description of the system, etc.>

}

**Security and Compliance Considerations:**

{

"product\_id": "", <string>, <unique identifier for data product>

"security\_features": [ "", <string>, <desc about security features in the data product>]

"compliance\_features": "", <string>, <desc about compliance features in the data product>

"data\_compliance": "", <string>, <desc about data compliance features in the data product>

"security\_compliance": "", <string>, <desc about security compliance features in the data product>

"description": "",<string>,<description of the system, etc.>,

"encryption": {"encryption\_algorithm": "<string>",

"encryption\_key\_management": "<string>",

"data\_encryption\_at\_rest": "<boolean>",

"data\_encryption\_in\_transit": "<boolean>"},

"authentication": {

"authentication\_methods": ["<string>"],

"multi-factor\_authentication": "<boolean>"

},

"audit\_trail": {

"audit\_logging\_enabled": "<boolean>",

"audit\_logs\_retention\_period": "<string>"

},

"access\_control": {

"access\_control\_list": "<string>",

"role-based\_access\_control": "<boolean>",

"attribute-based\_access\_control": "<boolean>"

},

"data\_privacy": {

"gdpr\_compliance": "<boolean>",

"data\_deletion\_capability": "<boolean>",

"data\_subject\_access\_requests": "<boolean>"

}

}

**Built Using:**

{

"product\_id": "", <string>, <unique identifier for data product>

"data\_source": "", <string>, <to identify the data source origin – internal or external or third-party etc.>

"datasets": "", <array>, <list of all dataset\_ids coming under data product>

"ltechnologies\_used”:””,<array>,<list of all the technologies used>

}

**Data Models and Algorithms:**

{

"product\_id": "", <string>, <unique identifier for data product>

"data\_models": ””,<array>,<list of all the data models used in the data product>,

"data\_source": "", <string>, <to identify the data source origin – internal or external or third-party etc.>

"datasets": "", <array>, <list of all dataset\_ids coming under data product>

"Algorithms": "",<array>,<list of algorithms used in the data product>

}

**Technical Specifications of Lens:**

{

"product\_id": "", <string>, <unique identifier for data product>

"lenses": [{“lens\_id : “”,<string>,<id of the lens>,

“lens\_name”: “”,<string>,<name of the lens>,

“lens\_description”:””,<string>,<desc of lens>,

“ lens\_version": "", <string>, <version of lens>,  
 “last\_updated\_at”:””, <date>, <lenslast updated>,

“relationships”: [ { “relation\_id”: ‘’” <string>,<id of the relationship>,

“relationship\_type”: ‘’” <string>,<type of the relationship>}]

“metrics”: [{“id” : “”<string>, <id of the metric>,

“sql”: “”<string>,<sql of the metric>}]

“dimension”: [ {“id” : “”<string>, <id of the dimension>,

“sql”: “”<string>,<sql of the dimension>}]}]}

**Security and Compliance Considerations:**

{

"product\_id": "", <string>, <unique identifier for data product>

"security\_features": [ "", <string>, <desc about security features in the data product>]

"compliance\_features": "", <string>, <desc about compliance features in the data product>

"data\_compliance": "", <string>, <desc about data compliance features in the data product>

"security\_compliance": "", <string>, <desc about security compliance features in the data product>

"description": "",<string>,<description of the system, etc.>,

"encryption": {"encryption\_algorithm": "<string>",

"encryption\_key\_management": "<string>",

"data\_encryption\_at\_rest": "<boolean>",

"data\_encryption\_in\_transit": "<boolean>"},

"authentication": {

"authentication\_methods": ["<string>"],

"multi-factor\_authentication": "<boolean>"

},

"audit\_trail": {

"audit\_logging\_enabled": "<boolean>",

"audit\_logs\_retention\_period": "<string>"

},

"access\_control": {

"access\_control\_list": "<string>",

"role-based\_access\_control": "<boolean>",

"attribute-based\_access\_control": "<boolean>"

},

"data\_privacy": {

"gdpr\_compliance": "<boolean>",

"data\_deletion\_capability": "<boolean>",

"data\_subject\_access\_requests": "<boolean>"}}

**Data Governance Policies and Data Stewardship:**

{

"product\_id": "<string>",

"policies": [{“policy\_id”:"<string>",

"governance\_policies": "<string>",

"data\_steward": "<string>"}],

"data\_classification": "<string>",

"data\_retention\_policy": {

"retention\_period": "<string>",

"archival\_policy": "<string>"

},

"access\_control": {

"authentication\_required": "<boolean>",

"authorization\_required": "<boolean>",

},

"data\_privacy": {

"gdpr\_compliance": "<boolean>",

"pii\_handling": "<string>",

"anonymization\_techniques": ["<string>"]

}

}

Old references:

**Assumptions and Limitations:**

{

"product\_id": "", <string>, <unique identifier for data product>

"description": "",

“purpose”:””

}

**Model Validation and Performance Metrics:**

{

"product\_id": "", <string>, <unique identifier for data product>

"Validation\_techniques": "",

"Performance\_metrics": ""

}

**User Guide:**

{

"product\_id": "", <string>, <unique identifier for data product>

"User\_guide": ""

}

**Advanced Features:**

{

"product\_id": "", <string>, <unique identifier for data product>

"features": ""

}

**Troubleshooting and Support:**

{

"product\_id": "", <string>, <unique identifier for data product>

"Troubleshoot": "",

"support": ""

}

**Data Quality Measures and Standards:**

{

"product\_id": "", <string>, <unique identifier for data product>

"Quality\_measures": "",

"Data\_description": ""

}

**Data Cleansing and Preprocessing Steps:**

{

"product\_id": "", <string>, <unique identifier for data product>

"Data\_models": "",

"Data\_description": ""

}

**Data Governance Policies and Data Stewardship:**

{

"product\_id": "", <string>, <unique identifier for data product>

"Policy\_id": "",

"Governance\_policies": ""

}

**Data Lineage and History Tracking:**

{

"product\_id": "", <string>, <unique identifier for data product>

"Data\_Lineage": ""

}

**Integration and Deployment:**

{

"product\_id": "", <string>, <unique identifier for data product>

"Integration": ""

}

**Scalability and Performance Considerations:**

{

"product\_id": "", <string>, <unique identifier for data product>

"description": ""

}

**Backup and Disaster Recovery Procedures:**

{

"product\_id": "", <string>, <unique identifier for data product>

"Data\_description": ""

}

**Use Cases and Scenarios:**

{

"product\_id": "", <string>, <unique identifier for data product>

"Description": "",

"purpose": ""

}

**Data Schemas:**

{

"product\_id": "", <string>, <unique identifier for data product>

"Data\_schema": ""

}

**Example how a lens query works:**

{

"product\_id": "", <string>, <unique identifier for data product>

"Lens\_id": "",

"Lens\_description\_and\_features": ""

}

**Attributes of a Robust Data Platform:**

{

"product\_id": "", <string>, <unique identifier for data product>

"System\_configuration": "",

"Database\_specification": "",

"Governance\_policies": "",

"Description": ""

}

**Security and Compliance:**

{

"product\_id": "", <string>, <unique identifier for data product>

"security\_and\_compliance\_measures": "",

"Security\_policies": ""

}

**Sample of a TrinoSQL:**

{

"product\_id": "", <string>, <unique identifier for data product>

"Data\_description": ""

}

**Beacon API Endpoint Example:**

{

"product\_id": "", <string>, <unique identifier for data product>

"Data\_description": ""

}

**Data Quality Metrics:**

{

"product\_id": "", <string>, <unique identifier for data product>

"Quality\_metrics": ""

}

**Frequency of Quality Checks:**

{

"product\_id": "", <string>, <unique identifier for data product>

"data\_frequency": "",

"Quality\_metrics": ""

}

**Frequency of Quality Check on Datasets:**

{

"product\_id": "", <string>, <unique identifier for data product>

"data\_frequency": "",

"Quality\_metrics": ""

}

**Data Update Frequency:** {"product\_id": "", <string>, <unique identifier for data product>

"data\_frequency": "" }