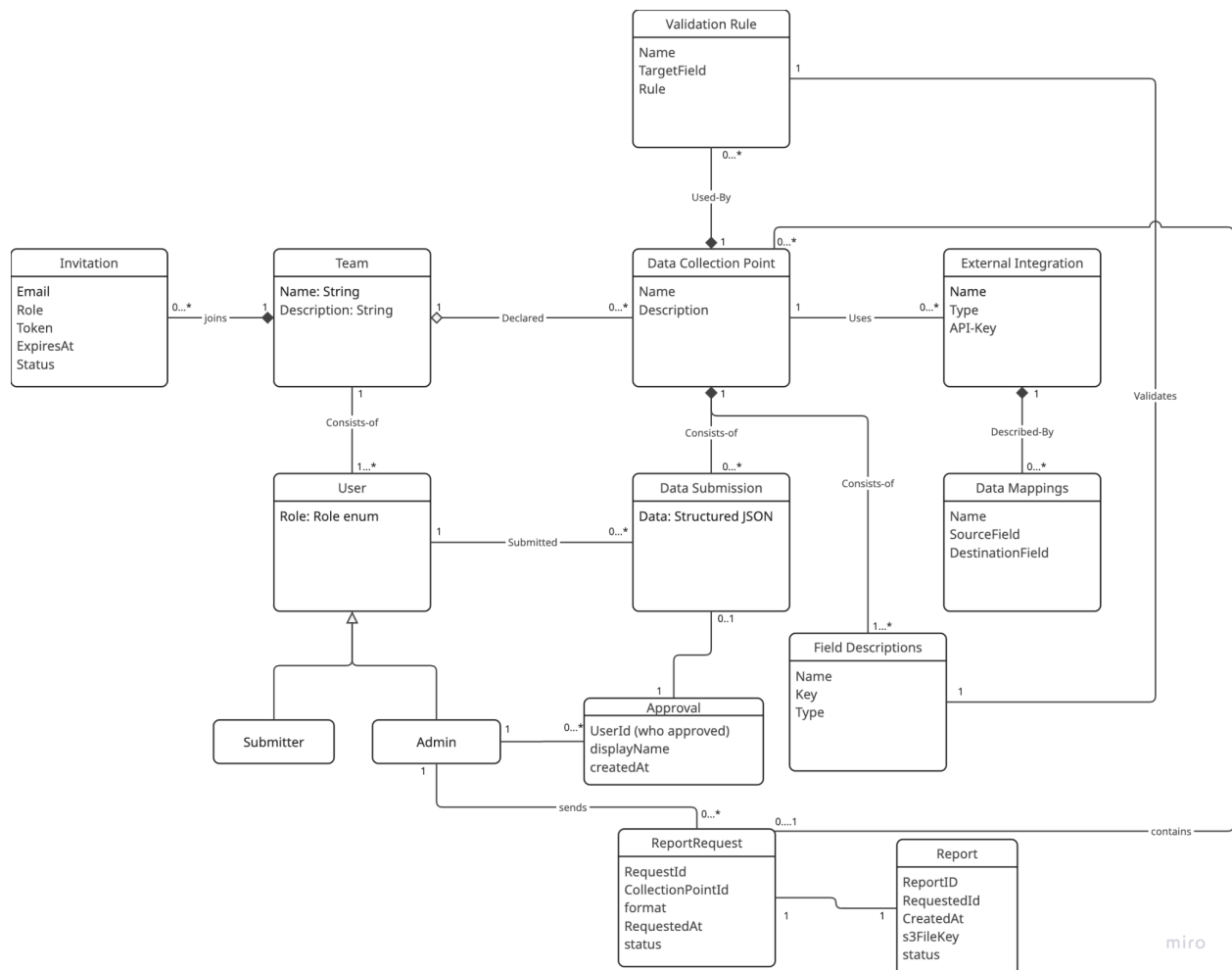


# CSC 375 – Introduction to Systems Analysis

## Data Model Document

<b>Project Title</b>	Reporting Pipeline Modernization
<b>Team Members (Names)</b>	Brian Pham, Xiangyu Yang, Wenchu Kan, Yilun Shi, Nitin Ruhil, Justin Chanhom
<b>Group #</b>	18

### Domain Model:



## Data Dictionary:

### User Table

Column	Data Type	Description
<b>user_id</b>	int	Unique ID number identifying each user
<b>user_first_name</b>	char(50)	First name of user
<b>user_last_name</b>	char(50)	Last name of user
<b>email</b>	char(50)	User's email
<b>team_id</b>	int	Reference ID to Team table
<b>role</b>	enum	2 possible values: "Admin", "Submitter"
<b>created_at</b>	datetime	Creation timestamp
<b>updated_at</b>	datetime(500)	Update timestamps

### Relations

Relation Name	Column Name	Data Type	Description
<b>belongsToTeam</b>	<b>team_id</b>	int	Foreign Key to Team table, referencing team_id value

### Team Table

Column	Data Type	Description
<b>team_id</b>	int	Unique ID number identifying each team
<b>team_name</b>	char(50)	Team name
<b>created_by</b>	user	Author
<b>created_at</b>	datetime	Creation timestamp
<b>updated_by</b>	user(500)	Includes users responsible for updates
<b>updated_at</b>	datetime(500)	Update timestamps

## Data Submission Table

Column	Data Type	Description
<b>submission_id</b>	int	Unique ID number identifying each data submission
<b>submission_data</b>	JSON	Submission data, in a structured JSON format
<b>dcp_id</b>	int	ID of the Data Collection Point this submission belongs to
<b>created_by</b>	int	ID of the user that created the submission
<b>created_at</b>	datetime	Creation timestamp
<b>updated_by</b>	int	ID of the user that updated the submission
<b>updated_at</b>	datetime	Update timestamps

## Relations

Relation Name	Column Name	Data Type	Description
<b>submittedByUser</b>	<b>user_id</b>	int	User that submitted data
<b>collectionPoint</b>	<b>dcp_id</b>	int	Data collection point responsible for submission
<b>dataWarehouse</b>	<b>dw_id</b>	int	Data warehouse responsible for storing submission

## Data Collection Point Table

Column	Data Type	Description
<b>dcp_id</b>	int	Unique ID number identifying each data collection point
<b>dcp_desc</b>	char(500)	Short description of the data collection point
<b>team_id</b>	int	The ID of the team that this collection point belong to
<b>created_by</b>	int	ID of the user that created the submission
<b>created_at</b>	datetime	Creation timestamp

<b>updated_by</b>	int	ID of the user that updated the submission
<b>updated_at</b>	datetime	Update timestamps

#### Relations

Relation Name	Column Name	Data Type	Description
<b>createdBy</b>	<b>user_id</b>	int	ID of author user

#### Invitation Table

Column	Data Type	Description
<b>invitation_id</b>	int	Unique ID number identifying each invitation
<b>user_id</b>	int	Foreign key linking the invitation to a team
<b>token</b>	char(255)	Encrypted invitation token used for security
<b>team_id</b>	int	ID of the team this invitation belongs to
<b>status</b>	enum	Indicates if the invitation is Pending, Accepted or Rejected
<b>created_by</b>	int	ID of the user that created the submission
<b>created_at</b>	datetime	Creation timestamp
<b>email</b>	char(50)	Email address of invited user
<b>role</b>	enum	The role assigned to the invitee

#### Relations

Relation Name	Column Name	Data Type	Description
<b>createdByTeam</b>	<b>team_id</b>	int	Team being invited to

#### External Integration Table

Column	Data Type	Description
<b>name</b>	char(255)	Name of API
<b>type</b>	char(1000)	Type of API

<b>api_key</b>	char(255)	API Key
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## Data Mappings Table

Column	Data Type	Description
<b>datamap_name</b>	char(255)	Name of Data Map
<b>source_field</b>	char(255)	Source Field
<b>destination_field</b>	char(255)	Destination Field
<b>created_by</b>	int	ID of the user that created the submission
<b>created_at</b>	datetime	Creation timestamp

## Field Descriptions Table

Column	Data Type	Description
<b>fd_name</b>	char(255)	Name of Field Description
<b>fd_key</b>	char(255)	Key
<b>fd_type</b>	enum	Describes type of Field Description
<b>validation_rule_id</b>	int	ID of the validation rule connected to this field
<b>created_by</b>	int	ID of the user that created the submission
<b>created_at</b>	datetime	Creation timestamp

## Relations

Relation Name	Column Name	Data Type	Description
<b>validatedBy</b>	<b>validation_id</b>	char(255)	References rule to be used for validation

## Report Request Table

Column	Data Type	Description
<b>req_id</b>	int	ID of Request
<b>req_dcp</b>	char(255)	Data Collection Point the request is being sent to
<b>format</b>	char(255)	Describes file format of the request

<b>req_status</b>	enum	Pending/Accepted/Rejected
<b>rep_id</b>	int	ID of the report
<b>created_by</b>	int	ID of the user that created the request
<b>created_at</b>	datetime	Creation timestamp

## Relations

Relation Name	Column Name	Data Type	Description
<b>req_report</b>	<b>rep_id</b>	int	ID of report being requested

## Report Table

Column	Data Type	Description
<b>rep_id</b>	int	ID of Report
<b>rep_req</b>	int	ID of Report Request
<b>s3_file_key</b>	string	S3 key
<b>rep_status</b>	enum	Pending/Accepted/Rejected
<b>created_by</b>	int	ID of the user that created the request
<b>created_at</b>	datetime	Creation timestamp