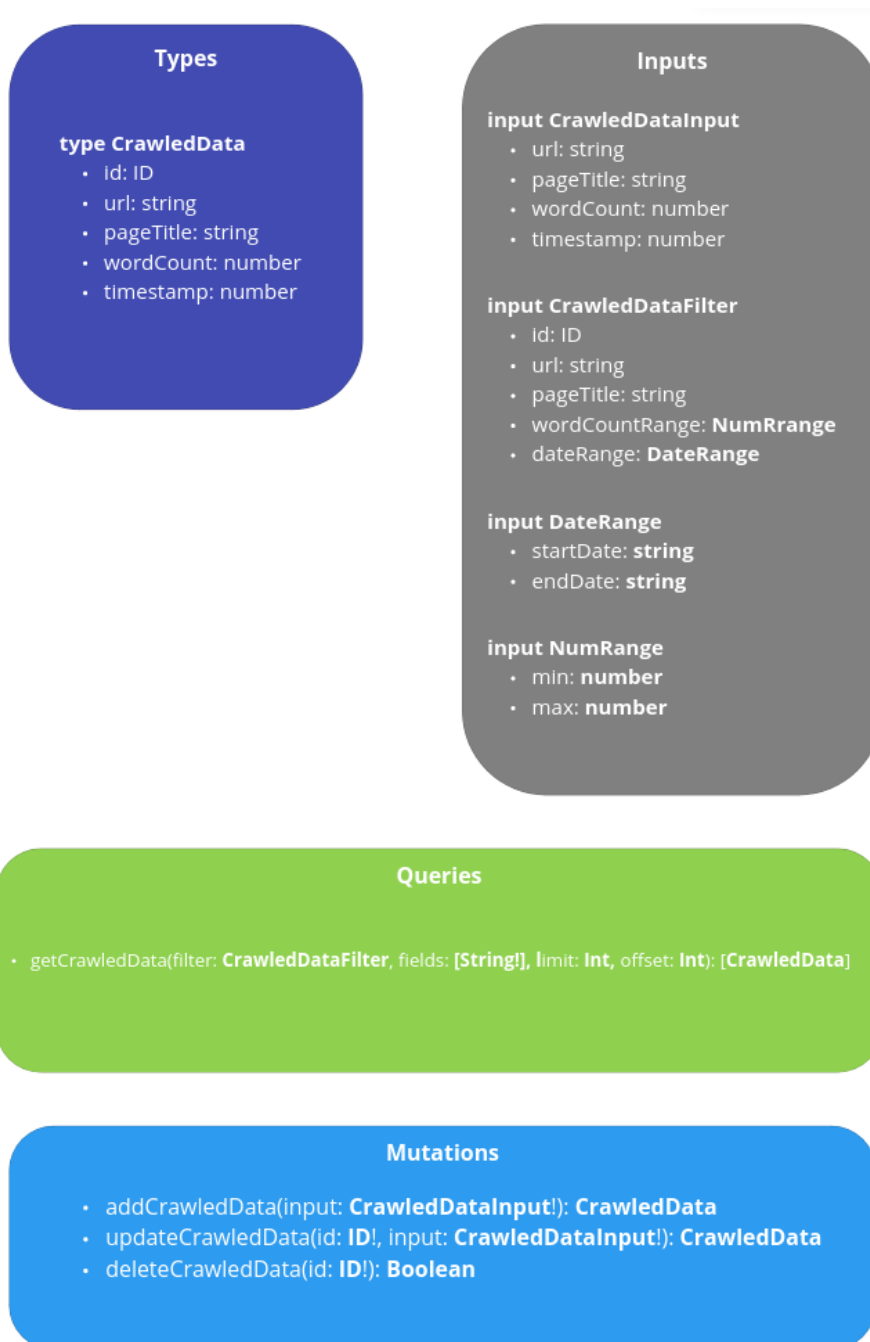# GraphQL Schema Design

1. Introduction

This document outlines the design of a GraphQL schema intended to interact with a DynamoDB table that stores metadata about crawled web pages

2. Schema

Types

type CrawledData
- id: ID
- url: string
- pageTitle: string
- wordCount: number
- timestamp: number

Inputs

input CrawledDataInput
- url: string
- pageTitle: string
- wordCount: number
- timestamp: number

input CrawledDataFilter
- id: ID
- url: string
- pageTitle: string
- wordCountRange: **NumRrange**
- dateRange: **DateRange**

input DateRange
- startDate: **string**
- endDate: **string**

input NumRange
- min: **number**
- max: **number**

Queries

- getCrawledData(filter: **CrawledDataFilter**, fields: **[String!]**, limit: **Int**, offset: **Int**): **[CrawledData]**

Mutations

- addCrawledData(input: **CrawledDataInput!**): **CrawledData**
- updateCrawledData(id: **ID!**, input: **CrawledDataInput!**): **CrawledData**
- deleteCrawledData(id: **ID!**): **Boolean**

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3. Additional Approaches

Additional query and mutation types could be added to the schema to support more complex operations, such as batch updates or aggregations.