

BIMS Database Documentation

This guide is meant to serve as a reference for information related to the BIMS database as implemented by the Fall 2021 Capstone Team.

NOTE: The BIMS database is part of an ongoing project still in development.

Contribution of the Fall 2021 Capstone Team

The Fall 2021 Capstone team integrated the BIMS database, in part, with the BIMS web application and mobile photography application. Because not all tables were required for the Fall 2021 Capstone project, most tables in the database are not accessed and currently contain no test data. The tables that are relevant to the Fall 2021 Capstone contribution are outlined in the following section.

Database Tables of Interest

The following tables contain test data and are accessed by either the web application, the mobile application, or both:

- Bridges
 - County
 - DroneImages
 - DroneImageSet
 - Inspections
 - InspectionTypeCode
 - UserRole
 - Users
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Important Notes About Tables

Inspections Table

- Primary Key **InspectionID** is auto-increment.
- Every inspection record requires (cannot be null) **AssignedDate** and **DueDate** at the time of insertion.
- The **Status** column in the **Inspections** table should contain one of three possible values for any given inspection record: "not started", "in progress", or "complete".
- For records with **Status** "not started" or "in progress", **FinishedDate**, **Report**, and **OverallRating** should be null.
- For records with **Status** "complete", **FinishedDate**, **Report**, and **OverallRating** should NOT be null.

