# CSAL Database Project Introduction

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September 22, 2014

## Contents

# 1 Introduction

This repository contains code for storing and displaying data stored as part of the CSAL project. The use cases and the code produced are described below. The short version is that the data is stored in a MongoDB instance, there is a C# library for accessing the database, and there is a Web API wrapping the DLL. In addition, the Web API server provides a very simple ASP.NET MVC application for viewing the data. Because of the dependence of the Web API on the "core" library, the only deployment information is below in section 5.3 Deployment

# 2 Use Cases

TODO: diagram of all of the below

TODO: direct DLL use for storing JSON records of student interaction

TODO: application reporting student interaction via the ReST API

TODO: Teacher's viewing current status of students/lessons/classes

TODO: data admin (pre-population of the database for new locations)

# 3 Database

TODO: "raw" JSON format and storage

TODO: other entities and how inferred

# 4 CSALMongo DLL

TODO: overall design

TODO: brief intro to test project

# 5 CSALMongo Web API

## 5.1 ReST API

TODO

## 5.2 User Interface

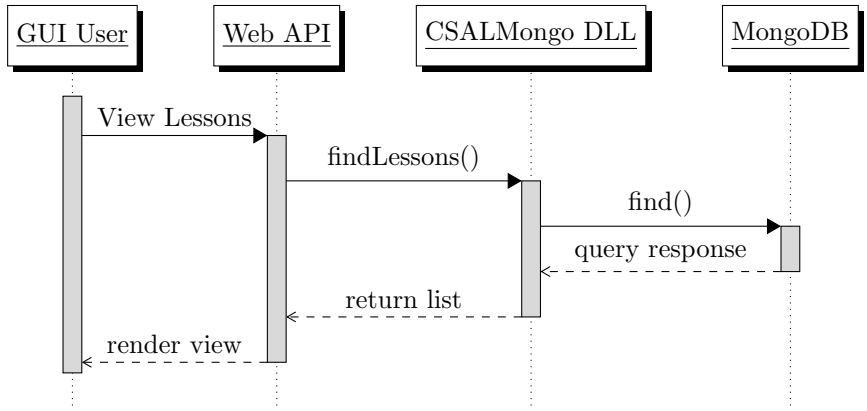
TODO

## 5.3 Deployment

TODO

# 6 Sequence Diagrams

## 6.1 Example of User Interaction




## 6.2 Example of ReST API Call

TODO

## 6.3 Example of Direct DLL Use

TODO