# ModelKB DB - Project Increment 2

#### **Team Members**

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## **Increment Goals and Objectives**

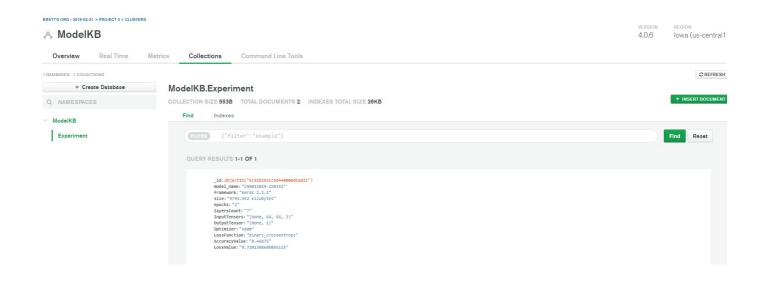
For this increment our main objectives were to upload the experiment artifacts into MongoDB. I was having difficulty figuring out how to select multiple files, parse through the flat file to post as name/value pairs, along with the pictures and metadata. Therefore, I implemented a REST API to post and get textual form data. This allowed me to become more comfortable with REST API's to build on for project increment 3.

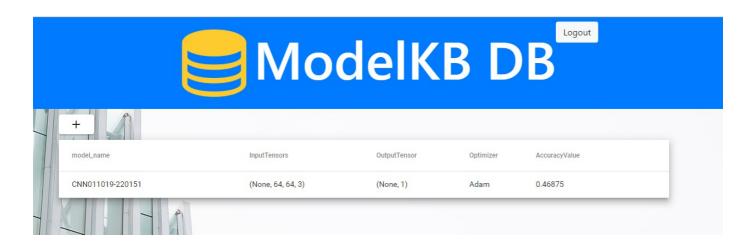
I did, however, add to the authentication service to ensure guards were placed on the other routes as well as adding a logout button to the navigation bar.

#### **MODELDB** Component

The MODELDB component loads all experiments which are currently stored in MongoDB for viewing. Moving forward I would like to add filtering so a user can view experiments based off the model\_name,

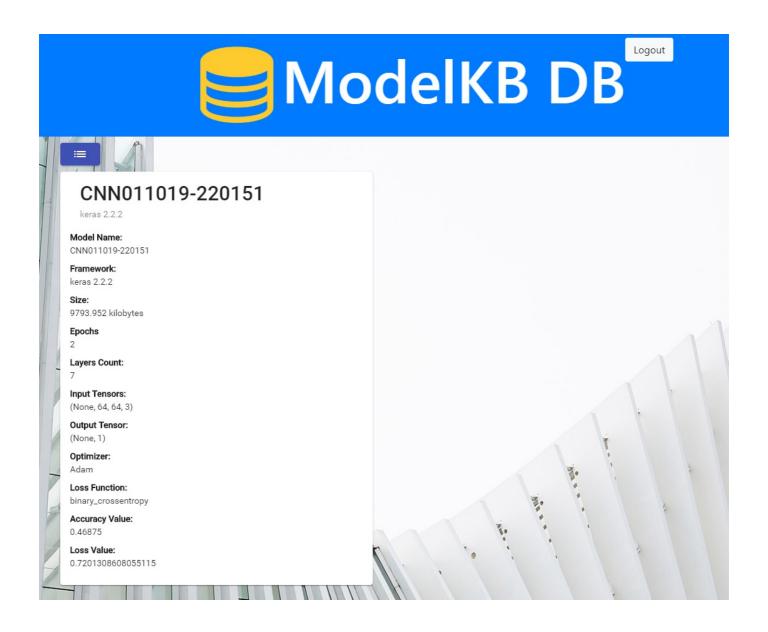
framework, or other criteria.





#### **MODELDB-DETAIL Component**

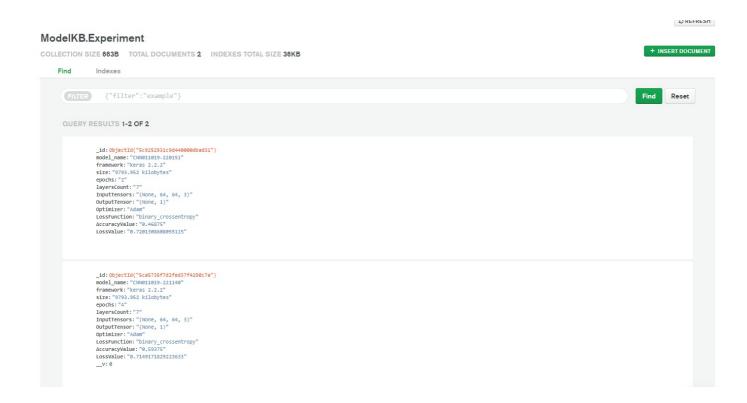
The MODELDB-DETAIL component is accessed by clicking on an experiment from the MODELDB page. This will load a form which contains all data for that experiment. Next, I want to be able to post the pictures related to the experiment so they can be viewed here as well as an option to download the metadata file.



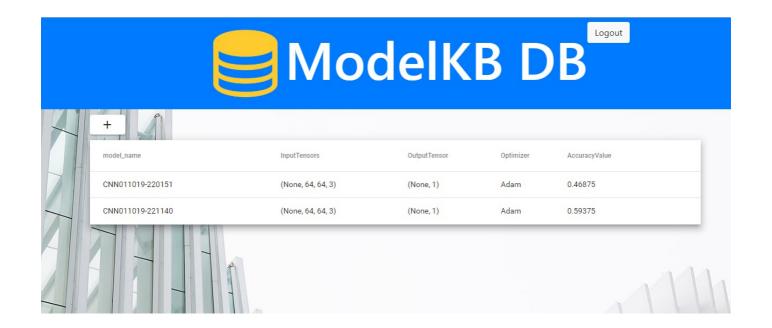
## **MODELDB-UPLOAD** Component

The MODELDB-UPLOAD Component contains an input form for the user to post experiment details to MongoDB. It also has a button to choose multiple files for upload. Currently, this button is not functioning but moving forward I want to be able to select all experiment files and process accordingly. The .h5 will be parsed and automatically fill out the details form for viewing by the user. Then, the pictures will be uploaded to MongoDB and seen on this page. Lastly, the metadata file will post to MongoDB and notify the user when successfully uploaded.





This newly created experiment can then be seen on the MODELDB-DETAIL component:



#### **Outcome**

This project still has a long ways to go and I hope to be able to implement all desired functionality. Thus far I have implement registration through Firebase and a REST API with MongoDB. From my research, it appears I will need to implement Multer or GridFS to be able to upload files to the database. This will be dependent on the artifact file's size as GridFS supports file with a maximum size of 16MB.