**Module 4 Lab 1: Database Connections and Models**

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IFT 458/554: Middleware Programming & Database Security

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**Task 1: Connecting to MongoDB Database with Mongoose**

A computer screen shot of a program

Description automatically generated

**Task 2: Creating Models in Mongoose**

*Student Created using POST student-*

A screenshot of a computer

Description automatically generated

*All Students retrieved using POST student-*

*A screenshot of a computer

Description automatically generated*

*Server.js-*

*A computer screen shot of a program code

Description automatically generated*

*StudentRoute.js-*

*A screenshot of a computer

Description automatically generated*

*studentModel.js-*

*A computer screen shot of a program

Description automatically generated*

*studentController.js-*

*A computer screen shot of a program code

Description automatically generated*

**Task  3: Extending Models in Mongoose- Changes are only the following files**

*studentModel.js*

A computer screen shot of a program code

Description automatically generated

*Server.js-*

A computer screen shot of a program code

Description automatically generated

*Create student-*

A screenshot of a computer

Description automatically generated

*Get all students-*

*A screenshot of a computer

Description automatically generated*

*MongoDB Atlas data entry-*

*A screenshot of a computer

Description automatically generated*

**Task 4: Validating Models in Mongoose**

*Changes done in studentModel.js-*

*A computer screen shot of a program

Description automatically generated*

*A computer screen shot of a program

Description automatically generated*

*Changes in studentController.js-*

*A computer screen shot of a program code

Description automatically generated*

*Validation for age-*

**A screenshot of a computer

Description automatically generated**

*Validation for Email only-*

**A screenshot of a computer

Description automatically generated**

*Validation for Grade-*

*A screenshot of a computer

Description automatically generated*

*Student Added successfully-*

*A screenshot of a computer

Description automatically generated*

**Task 5: Connecting to MongoDB Database with Mongoose**

*Server.js-*

*A screenshot of a computer

Description automatically generated*

**Task 6: Creating Models in Mongoose**

A computer screen shot of a program

Description automatically generated

A computer screen shot of a program

Description automatically generated

**Task 7:  Validating Models in Mongoose:**

*The same code which we have for model will come in here as validation is done in model.*

**Task 8: Validating Models in Mongoose**

*The same code which we have for model will come in here as validation is done in model.*