**Project Development Phase**

**Model Performance Test**

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| Date | 16 July 2025 |
| Team ID | LTVIP2025TMID59690 |
| Project Name | HouseHunt – Rental Property Recommender |
| Maximum Marks | 2 Marks |

**Model Performance Testing:**

**1.Introduction to MongoDB:**

MongoDB is a NoSQL, document-oriented database that stores data in flexible, JSON-like documents.

It is used in the MERN stack for fast, scalable, schema-less data storage.

**2.Why MongoDB Was Used:**

MongoDB was chosen for this project due to:

- Its flexibility with dynamic schemas (suitable for housing data)

- Easy integration with Mongoose in Node.js backend

- High performance for real-time queries

- Compatibility with JSON data used throughout the stack

**3.How MongoDB Was Used in the Project:**

- Defined Mongoose schemas for:

- Users (renter, owner, admin)

- Properties (title, description, price, location)

- Bookings (renter ID, property ID, dates)

- Performed CRUD operations via Express.js routes

- Stored data in a MongoDB Atlas cluster (cloud-based)

**4.Sample Schema:**

const mongoose = require("mongoose");

const propertySchema = new mongoose.Schema({

title: String,

location: String,

**price: Number,**

description: String,

ownerId: mongoose.Schema.Types.ObjectId

});

**5.** **Conclusion:**

MongoDB played a critical role in storing and managing user and property data.

Its flexibility and seamless integration with Node.js made it ideal for building a scalable backend.