Summary of Completed Tasks-Day 9-S

1. **Updated MongoDB Schema**

   o Added fields for quiz metadata:

     ▪ difficulty (e.g., Easy, Medium, Hard)

     ▪ topic_tags (list of relevant topics)

     ▪ time_taken (time to complete the quiz)

2. **Modified Backend API Endpoints**

   o Updated quiz-related API routes to send the new quiz metadata to the frontend.

   o Ensured metadata is included in both creation and retrieval of quizzes.

3. **Postman Testing**

   o Verified updated API endpoints with Postman.

   o Confirmed correct response structure and inclusion of new metadata fields.

4. **Backend Validation**

   o Implemented validation for quiz metadata before saving to MongoDB.

   o Prevented invalid or missing metadata from being stored.

5. **Duplicate Key Error Investigation**

   o Identified and discussed the MongoDB duplicate key error caused by trying to insert documents with an already existing _id.

   o Suggested solutions like removing _id before insert or using updateOne / upsert.

6. **MongoDB Query Assistance**

   o Provided MongoDB and PyMongo queries to find a document by a given _id.