**Meeting Minutes 5: Controller, DTO, and DAO Review**

**Subject:** Initial Meeting for Controller and DAO Layers  
**Location:** Trottier Building, 3rd Floor  
**Start Time:** November 10, 6 pm   
**Duration:** 90 minutes

**Attendees:** Paolo, Peter Zhang, Emile, Jeff, Rami

**Topics:**

* Controller Layer Development:
  + Discussed the design and implementation of controller classes for each service, focusing on RESTful endpoints and API design.
  + Outlined responsibilities for each controller to handle HTTP requests, map to corresponding service methods, and manage responses:
    - Paolo: Developed OrderController endpoints for order creation, management, and status tracking.
    - Peter Zhang: Implemented InventoryController to handle catalog and inventory updates, ensuring CRUD operations are accessible via API.
    - Emile: Built CustomerController endpoints to manage user accounts, including registration, login, and profile management.
* DTO Design and Integration:
  + Reviewed the purpose of Data Transfer Objects (DTOs) for efficient API data handling.
  + Created and assigned DTOs for key entities (e.g., Order, Product, Customer), focusing on simplifying data structures for front-end interactions.
  + Adjusted the structure of several DTOs to support specific API requirements, ensuring data consistency between the client and server.
* DAO Layer Refinement and Consistency Check:
  + Conducted a review of DAOs to ensure alignment with recent model and service layer updates.
  + Verified that data access methods in DAOs are efficient and reliable, following best practices for database operations.
  + Made minor updates to DAO classes to fix discovered inconsistencies and streamline query performance.
* Project Management and Documentation Updates:
  + Updated project management documentation, ensuring that all issues, tasks, and responsibilities are clearly assigned and tracked in the GitHub backlog.
  + Began consolidating documentation for API endpoints, including:
    - Detailed descriptions of each endpoint’s purpose, parameters, and expected responses.
    - Examples of API requests and responses to aid in development and testing.
* Quality Assurance Plan:
  + Reviewed current progress in testing and integration for the controller and DTO layers.
  + Planned further integration tests to verify that controller endpoints interact correctly with the service layer, covering valid and invalid use cases.

**Outcomes:**

* Tested the service layer partially
* **Milestone Achieved:** Completed initial setup for controllers, DTOs, and DAOs.
* **Next Steps:** Finalize documentation and quality assurance before submission.