

Integration Testing Specification

INTEGRATION TESTING SPECIFICATION

This document lists all RESTful endpoints available in the controller layer with guidance for testing interactions.

AssetController

****Base Path:**** `/api/assets`

API Endpoints:

- ****GET**** `/api/assets`
 - ****Method:**** `getAllAssets`
 - ****Params:**** ``
 - ****Returns:**** `List<Asset>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** `{...}`
- ****GET**** `/api/assets/category/{category}`
 - ****Method:**** `getAssetsByCategory`
 - ****Params:**** `@PathVariable String category`
 - ****Returns:**** `List<Asset>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** `{...}`
- ****GET**** `/api/assets/status/{status}`
 - ****Method:**** `getAssetsByStatus`
 - ****Params:**** `@PathVariable String status`
 - ****Returns:**** `List<Asset>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** `{...}`
- ****GET**** `/api/assets/search`
 - ****Method:**** `searchAssetsByAssignedTo`
 - ****Params:**** `@RequestParam String keyword`
 - ****Returns:**** `List<Asset>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** `{...}`
- ****GET**** `/api/assets/employee/{id}`

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- **Method:** `getAssetsByEmployeeDbId`
 - **Params:** `@PathVariable Long id`
 - **Returns:** `List<Asset>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
-
- **POST** `/api/assets`
 - **Method:** `addAsset`
 - **Params:** `@RequestBody Asset asset`
 - **Returns:** `Asset`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
-
- **PUT** `/api/assets/{id}`
 - **Method:** `updateAsset`
 - **Params:** `@PathVariable Long id, @RequestBody Asset asset`
 - **Returns:** `Asset`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
-
- **DELETE** `/api/assets/{id}`
 - **Method:** `deleteAsset`
 - **Params:** `@PathVariable Long id`
 - **Returns:** `void`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`

AttendanceController

Base Path: `/api/attendance`

API Endpoints:

- **GET** `/api/attendance`
- **Method:** `getAllAttendance`
- **Params:** ``
- **Returns:** `ResponseEntity<List<AttendanceWithEmployeeDTO>>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

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- **GET** `/api/attendance/employee/{employeeId}`
 - **Method:** `getEmployeeAttendance`
 - **Params:** `@PathVariable String employeeId`
 - **Returns:** `ResponseEntity<List<Attendance>>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
-
- **POST** `/api/attendance/mark`
 - **Method:** `markAttendance`
 - **Params:** `@RequestBody Attendance attendanceRequest`
 - **Returns:** `ResponseEntity<Attendance>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`

AuthController

Base Path: `/api/auth`

API Endpoints:

- **POST** `/api/auth/register`
- **Method:** `register`
- **Params:** `@RequestBody RegisterRequest request`
- **Returns:** `ResponseEntity<AuthResponse>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

BankDocumentController

Base Path: `/api/bankdocuments`

API Endpoints:

- **GET** `/api/bankdocuments`
- **Method:** `getAllBankDocuments`

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- **Params:** ``
 - **Returns:** `` ResponseEntity<List<BankDocument>>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** {...}
-
- **GET** `` /api/bankdocuments/{id}`
 - **Method:** `` getBankDocumentById`
 - **Params:** `` @PathVariable Long id`
 - **Returns:** `` ResponseEntity<BankDocument>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** {...}
-
- **POST** `` /api/bankdocuments`
 - **Method:** `` createBankDocument`
 - **Params:** `` @RequestBody BankDocument bankDocument`
 - **Returns:** `` ResponseEntity<BankDocument>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** {...}
-
- **PUT** `` /api/bankdocuments/{id}`
 - **Method:** `` updateBankDocument`
 - **Params:** `` @PathVariable Long id, @RequestBody BankDocument bankDocumentDetails`
 - **Returns:** `` ResponseEntity<BankDocument>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** {...}
-
- **DELETE** `` /api/bankdocuments/{id}`
 - **Method:** `` deleteBankDocument`
 - **Params:** `` @PathVariable Long id`
 - **Returns:** `` ResponseEntity<Void>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** {...}

BillingController

Base Path: `` /api/billings`

API Endpoints:

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- **GET** `/api/billings``
- **Method:** `getAllBillings``
- **Params:** ```
- **Returns:** `ResponseEntity<List<Billing>>``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **GET** `/api/billings/{id}``
- **Method:** `getBillingById``
- **Params:** `@PathVariable Long id``
- **Returns:** `ResponseEntity<Billing>``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **POST** `/api/billings``
- **Method:** `createBilling``
- **Params:** `@RequestBody Billing billing``
- **Returns:** `ResponseEntity<Billing>``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **PUT** `/api/billings/{id}``
- **Method:** `updateBilling``
- **Params:** `@PathVariable Long id, @RequestBody Billing billingDetails``
- **Returns:** `ResponseEntity<Billing>``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **DELETE** `/api/billings/{id}``
- **Method:** `deleteBilling``
- **Params:** `@PathVariable Long id``
- **Returns:** `ResponseEntity<Void>``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

CaDocumentController

Base Path: `/api/cadocuments``

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API Endpoints:

- **GET** `/api/cadocuments`
 - **Method:** `getAllCaDocuments`
 - **Params:** ``
 - **Returns:** `ResponseEntity<List<CaDocument>>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
- **GET** `/api/cadocuments/{id}`
 - **Method:** `getCaDocumentById`
 - **Params:** `@PathVariable Long id`
 - **Returns:** `ResponseEntity<CaDocument>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
- **POST** `/api/cadocuments`
 - **Method:** `createCaDocument`
 - **Params:** `@RequestBody CaDocument caDocument`
 - **Returns:** `ResponseEntity<CaDocument>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
- **PUT** `/api/cadocuments/{id}`
 - **Method:** `updateCaDocument`
 - **Params:** `@PathVariable Long id, @RequestBody CaDocument caDocumentDetails`
 - **Returns:** `ResponseEntity<CaDocument>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
- **DELETE** `/api/cadocuments/{id}`
 - **Method:** `deleteCaDocument`
 - **Params:** `@PathVariable Long id`
 - **Returns:** `ResponseEntity<Void>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`

CommissionsController

Integration Testing Specification

****Base Path:**** `/api/commissions`

API Endpoints:

- ****POST**** `/api/commissions`
- ****Method:**** `createCommission`
- ****Params:**** `@RequestBody CommissionsDTO commissionsDTO`
- ****Returns:**** `ResponseEntity<CommissionsDTO>`
- ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
- ****Sample Request Body:**** `{...}`

- ****GET**** `/api/commissions`
- ****Method:**** `getAllCommissions`
- ****Params:**** ``
- ****Returns:**** `ResponseEntity<List<CommissionsDTO>>`
- ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
- ****Sample Request Body:**** `{...}`

- ****PUT**** `/api/commissions/{id}`
- ****Method:**** `updateCommission`
- ****Params:**** `@PathVariable Long id, @RequestBody CommissionsDTO commissionsDTO`
- ****Returns:**** `ResponseEntity<CommissionsDTO>`
- ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
- ****Sample Request Body:**** `{...}`

- ****DELETE**** `/api/commissions/{id}`
- ****Method:**** `deleteCommission`
- ****Params:**** `@PathVariable Long id`
- ****Returns:**** `ResponseEntity<Void>`
- ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
- ****Sample Request Body:**** `{...}`

CompanyRegistrationController

****Base Path:**** `/api/companyregistrations`

API Endpoints:

- ****GET**** `/api/companyregistrations`

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- **Method:** `getAllCompanyRegistrations`
 - **Params:** ``
 - **Returns:** `ResponseEntity<List<CompanyRegistration>>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
-
- **GET** `/api/companyregistrations/{id}`
 - **Method:** `getCompanyRegistrationById`
 - **Params:** `@PathVariable Long id`
 - **Returns:** `ResponseEntity<CompanyRegistration>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
-
- **POST** `/api/companyregistrations`
 - **Method:** `createCompanyRegistration`
 - **Params:** `@RequestBody CompanyRegistration companyRegistration`
 - **Returns:** `ResponseEntity<CompanyRegistration>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
-
- **PUT** `/api/companyregistrations/{id}`
 - **Method:** `updateCompanyRegistration`
 - **Params:** `@PathVariable Long id, @RequestBody CompanyRegistration companyRegistrationDetails`
 - **Returns:** `ResponseEntity<CompanyRegistration>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
-
- **DELETE** `/api/companyregistrations/{id}`
 - **Method:** `deleteCompanyRegistration`
 - **Params:** `@PathVariable Long id`
 - **Returns:** `ResponseEntity<Void>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`

ElectricBillsController

Base Path: `/api/electric-bills`

API Endpoints:

Integration Testing Specification

- **POST** `/api/electric-bills`
 - **Method:** `createElectricBill`
 - **Params:** `@RequestBody ElectricBillsDTO electricBillsDTO`
 - **Returns:** `ResponseEntity<ElectricBillsDTO>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
- **GET** `/api/electric-bills`
 - **Method:** `getAllElectricBills`
 - **Params:** ``
 - **Returns:** `ResponseEntity<List<ElectricBillsDTO>>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
- **PUT** `/api/electric-bills/{id}`
 - **Method:** `updateElectricBill`
 - **Params:** `@PathVariable Long id, @RequestBody ElectricBillsDTO electricBillsDTO`
 - **Returns:** `ResponseEntity<ElectricBillsDTO>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
- **DELETE** `/api/electric-bills/{id}`
 - **Method:** `deleteElectricBill`
 - **Params:** `@PathVariable Long id`
 - **Returns:** `ResponseEntity<Void>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`

EmployeeController

Base Path: `/api/employees`

API Endpoints:

- **GET** `/api/employees/{id}` / Handles HTTP GET requests to /api/employees/{id}

```
public ResponseEntity<Employee> getEmployeeById(@PathVariable Long id) {  
    / @PathVariable extracts the ID from the URL path  
    try {
```

Integration Testing Specification

```
Employee employee = employeeService.getEmployeeById(id);
return new ResponseEntity<>(employee, HttpStatus.OK); / Returns 200 OK status
} catch (NoSuchElementException e) {
return new ResponseEntity<>(HttpStatus.NOT_FOUND); / Returns 404 Not Found if employee doesn't exist
}
}
```

/**

* Endpoint to get an employee by their employee ID (e.g., EMP001).

* @param employeeId The unique employee ID.

* @return ResponseEntity with the employee and HTTP status.

*/

@GetMapping("/byEmployeeId/{employeeId}") / Handles HTTP GET requests to
/api/employees/byEmployeeId/{employeeId}

```
public ResponseEntity<Employee> getEmployeeByEmployeeId(@PathVariable String employeeId) {
try {
Employee employee = employeeService.getEmployeeByEmployeeId(employeeId);
return new ResponseEntity<>(employee, HttpStatus.OK);
} catch (NoSuchElementException e) {
return new ResponseEntity<>(HttpStatus.NOT_FOUND);
}
}
```

/**

* Endpoint to get all employee records.

* @return ResponseEntity with a list of all employees and HTTP status.

*/

@GetMapping / Handles HTTP GET requests to /api/employees

```
public ResponseEntity<List<Employee>> getAllEmployees() {
List<Employee> employees = employeeService.getAllEmployees();
return new ResponseEntity<>(employees, HttpStatus.OK);
}
```

/**

* Endpoint to update an existing employee record.

* @param id The internal ID of the employee to update.

* @param employeeDetails The updated employee details.

* @return ResponseEntity with the updated employee and HTTP status.

*/

@PutMapping("/{id}") / Handles HTTP PUT requests to /api/employees/{id}

```
public ResponseEntity<Employee> updateEmployee(@PathVariable Long id, @RequestBody Employee
```

Integration Testing Specification

```
employeeDetails) {
try {
Employee updatedEmployee = employeeService.updateEmployee(id, employeeDetails);
return new ResponseEntity<>(updatedEmployee, HttpStatus.OK); / Returns 200 OK
} catch (NoSuchElementException e) {
return new ResponseEntity<>(HttpStatus.NOT_FOUND); / Returns 404 Not Found
}
}

/**
 * Endpoint to delete an employee record.
 * @param id The internal ID of the employee to delete.
 * @return ResponseEntity with HTTP status.
 */
@DeleteMapping("/{id}") / Handles HTTP DELETE requests to /api/employees/{id}
public ResponseEntity<HttpStatus> deleteEmployee(@PathVariable Long id) {
try {
employeeService.deleteEmployee(id);
return new ResponseEntity<>(HttpStatus.NO_CONTENT); / Returns 204 No Content (successful deletion)
} catch (NoSuchElementException e) {
return new ResponseEntity<>(HttpStatus.NOT_FOUND); / Returns 404 Not Found
}
}

/**
 * Endpoint to update an employee's status.
 * @param id The internal ID of the employee to update.
 * @param status The new status for the employee.
 * @return ResponseEntity with the updated employee and HTTP status.
 */
@PutMapping("/{id}/status") / Handles HTTP PUT requests to /api/employees/{id}/status
public ResponseEntity<Employee> updateEmployeeStatus(@PathVariable Long id, @RequestParam String status) {
try {
Employee updatedEmployee = employeeService.updateEmployeeStatus(id, status);
return new ResponseEntity<>(updatedEmployee, HttpStatus.OK);
} catch (NoSuchElementException e) {
return new ResponseEntity<>(HttpStatus.NOT_FOUND);
}
}

@PostMapping("/login")
```

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```
public ResponseEntity<?> login(@RequestBody Map<String, String> loginData) {
    String email = loginData.get("email");
    String password = loginData.get("password");
    Optional<Employee> employeeOpt = employeeService.getAllEmployees().stream()
        .filter(emp -> emp.getEmail().equals(email) && emp.getPassword().equals(password))
        .findFirst();
    if (employeeOpt.isPresent()) {
        return ResponseEntity.ok(employeeOpt.get());
    } else {
        return ResponseEntity.status(HttpStatus.UNAUTHORIZED).body("Invalid email or password");
    }
}

/**
 * Endpoint to register a new employee account.
 * Accepts employeeName, employeeId, email, password, phoneNumber, and roles (as ["EMPLOYEE"]).
 * Uses the first role in the list for the Employee entity.
 * @param request The registration request DTO.
 * @return ResponseEntity with the created employee and HTTP status.
 */
@PostMapping("/register")
- **Method:** `registerEmployee`
- **Params:** `@RequestBody com.example.storemanagementbackend.dto.RegisterRequest request`
- **Returns:** `ResponseEntity<Employee>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **POST** `/api/employees/hr/register`
- **Method:** `hrRegisterEmployee`
- **Params:** `@RequestBody EmployeeRegistrationRequest request`
- **Returns:** `ResponseEntity<Employee>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`
```

EmployeeDocumentController

****Base Path:**** `/api/hr`

API Endpoints:

Integration Testing Specification

- **GET** `/api/hr/documents``
- **Method:** `getAllDocuments``
- **Params:** ``
- **Returns:** `ResponseEntity<List<EmployeeDocumentDTO>>``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** N/A

- **GET** `/api/hr/documents/employee/{employeeId}``
- **Method:** `getDocumentsByEmployeeId``
- **Params:** `@PathVariable String employeeId``
- **Returns:** `ResponseEntity<List<EmployeeDocumentDTO>>``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** N/A

- **GET** `/api/hr/documents/type/{documentType}``
- **Method:** `getDocumentsByType``
- **Params:** `@PathVariable String documentType``
- **Returns:** `ResponseEntity<List<EmployeeDocumentDTO>>``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** N/A

- **GET** `/api/hr/documents/{id}``
- **Method:** `getDocumentById``
- **Params:** `@PathVariable Long id``
- **Returns:** `ResponseEntity<EmployeeDocumentDTO>``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** N/A

- **POST** `/api/hr/upload/{docType}/{employeeId}``
- **Method:** `uploadDocument``
- **Params:** `@PathVariable String docType, @PathVariable String employeeId, @RequestParam("file") MultipartFile file``
- **Returns:** `ResponseEntity<EmployeeDocumentDTO>``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** N/A

- **GET** `/api/hr/download/{employeeId}/{docType}``
- **Method:** `downloadDocument``
- **Params:** `@PathVariable String employeeId, @PathVariable String docType, HttpServletRequest request``
- **Returns:** `ResponseEntity<Resource>``

Integration Testing Specification

- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** N/A
- **DELETE** `/api/hr/documents/{id}`
- **Method:** `deleteDocument`
- **Params:** `@PathVariable Long id`
- **Returns:** `ResponseEntity<HttpStatus>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** N/A

ExpoAdvertisementController

Base Path: `/api/expo-advertisements`

API Endpoints:

- **POST** `/api/expo-advertisements`
- **Method:** `createExpoAdvertisement`
- **Params:** `@RequestBody ExpoAdvertisementDTO expoAdvertisementDTO`
- **Returns:** `ResponseEntity<ExpoAdvertisementDTO>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`
- **GET** `/api/expo-advertisements`
- **Method:** `getAllExpoAdvertisements`
- **Params:** ``
- **Returns:** `ResponseEntity<List<ExpoAdvertisementDTO>>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`
- **PUT** `/api/expo-advertisements/{id}`
- **Method:** `updateExpoAdvertisement`
- **Params:** `@PathVariable Long id, @RequestBody ExpoAdvertisementDTO expoAdvertisementDTO`
- **Returns:** `ResponseEntity<ExpoAdvertisementDTO>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`
- **DELETE** `/api/expo-advertisements/{id}`
- **Method:** `deleteExpoAdvertisement`

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- **Params:** `@PathVariable Long id`
- **Returns:** `ResponseEntity<Void>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

FinanceReportController

Base Path: `/api/financereports`

API Endpoints:

- **GET** `/api/financereports`
 - **Method:** `getAllFinanceReports`
 - **Params:** ``
 - **Returns:** `ResponseEntity<List<FinanceReport>>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
- **GET** `/api/financereports/{id}`
 - **Method:** `getFinanceReportById`
 - **Params:** `@PathVariable Long id`
 - **Returns:** `ResponseEntity<FinanceReport>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
- **POST** `/api/financereports`
 - **Method:** `createFinanceReport`
 - **Params:** `@RequestBody FinanceReport financeReport`
 - **Returns:** `ResponseEntity<FinanceReport>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
- **PUT** `/api/financereports/{id}`
 - **Method:** `updateFinanceReport`
 - **Params:** `@PathVariable Long id, @RequestBody FinanceReport financeReportDetails`
 - **Returns:** `ResponseEntity<FinanceReport>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`

Integration Testing Specification

- **DELETE** `/api/financereports/{id}`
- **Method:** `deleteFinanceReport`
- **Params:** `@PathVariable Long id`
- **Returns:** `ResponseEntity<Void>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

FixedStationaryController

Base Path: `/store/stationary/fixed`

API Endpoints:

- **GET** `/store/stationary/fixed`
- **Method:** `getAll`
- **Params:** ``
- **Returns:** `List<FixedStationary>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **GET** `/store/stationary/fixed/{id}`
- **Method:** `getById`
- **Params:** `@PathVariable Long id`
- **Returns:** `ResponseEntity<FixedStationary>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **POST** `/store/stationary/fixed`
- **Method:** `create`
- **Params:** `@RequestBody FixedStationary stationary`
- **Returns:** `FixedStationary`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **PUT** `/store/stationary/fixed/{id}`
- **Method:** `update`
- **Params:** `@PathVariable Long id, @RequestBody FixedStationary stationary`
- **Returns:** `ResponseEntity<FixedStationary>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic

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- **Sample Request Body:** {...}
- **DELETE** `/store/stationary/fixed/{id}`
- **Method:** `delete`
- **Params:** `@PathVariable Long id`
- **Returns:** `ResponseEntity<Void>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** {...}

FurnitureController

Base Path: `/store/assets/furniture`

API Endpoints:

- **GET** `/store/assets/furniture`
- **Method:** `getAll`
- **Params:** ``
- **Returns:** `List<Furniture>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** {...}
- **GET** `/store/assets/furniture/{id}`
- **Method:** `getById`
- **Params:** `@PathVariable Long id`
- **Returns:** `ResponseEntity<Furniture>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** {...}
- **POST** `/store/assets/furniture`
- **Method:** `create`
- **Params:** `@RequestBody Furniture furniture`
- **Returns:** `Furniture`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** {...}
- **PUT** `/store/assets/furniture/{id}`
- **Method:** `update`
- **Params:** `@PathVariable Long id, @RequestBody Furniture furniture`

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- **Returns:** `ResponseEntity<Furniture>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
-
- **DELETE** `/store/assets/furniture/{id}`
 - **Method:** `delete`
 - **Params:** `@PathVariable Long id`
 - **Returns:** `ResponseEntity<Void>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`

IncentivesController

Base Path: `/api/incentives`

API Endpoints:

- **POST** `/api/incentives`
 - **Method:** `createIncentive`
 - **Params:** `@RequestBody IncentivesDTO incentivesDTO`
 - **Returns:** `ResponseEntity<IncentivesDTO>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
-
- **GET** `/api/incentives`
 - **Method:** `getAllIncentives`
 - **Params:** ``
 - **Returns:** `ResponseEntity<List<IncentivesDTO>>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
-
- **PUT** `/api/incentives/{id}`
 - **Method:** `updateIncentive`
 - **Params:** `@PathVariable Long id, @RequestBody IncentivesDTO incentivesDTO`
 - **Returns:** `ResponseEntity<IncentivesDTO>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
-
- **DELETE** `/api/incentives/{id}`

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- **Method:** `deleteIncentive`
- **Params:** `@PathVariable Long id`
- **Returns:** `ResponseEntity<Void>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

InternetBillsController

Base Path: `/api/internet-bills`

API Endpoints:

- **POST** `/api/internet-bills`
 - **Method:** `createInternetBill`
 - **Params:** `@RequestBody InternetBillsDTO internetBillsDTO`
 - **Returns:** `ResponseEntity<InternetBillsDTO>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
- **GET** `/api/internet-bills`
 - **Method:** `getAllInternetBills`
 - **Params:** ``
 - **Returns:** `ResponseEntity<List<InternetBillsDTO>>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
- **PUT** `/api/internet-bills/{id}`
 - **Method:** `updateInternetBill`
 - **Params:** `@PathVariable Long id, @RequestBody InternetBillsDTO internetBillsDTO`
 - **Returns:** `ResponseEntity<InternetBillsDTO>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
- **DELETE** `/api/internet-bills/{id}`
 - **Method:** `deleteInternetBill`
 - **Params:** `@PathVariable Long id`
 - **Returns:** `ResponseEntity<Void>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`

Integration Testing Specification

LabComponentController

Base Path: `/store/lab/components``

API Endpoints:

- **GET** `/store/lab/components``
- **Method:** `getAll``
- **Params:** ```
- **Returns:** `List<LabComponent>``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **GET** `/store/lab/components/{id}``
- **Method:** `getById``
- **Params:** `@PathVariable Long id``
- **Returns:** `ResponseEntity<LabComponent>``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **POST** `/store/lab/components``
- **Method:** `create``
- **Params:** `@RequestBody LabComponent component``
- **Returns:** `LabComponent``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **PUT** `/store/lab/components/{id}``
- **Method:** `update``
- **Params:** `@PathVariable Long id, @RequestBody LabComponent component``
- **Returns:** `ResponseEntity<LabComponent>``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **DELETE** `/store/lab/components/{id}``
- **Method:** `delete``
- **Params:** `@PathVariable Long id``
- **Returns:** `ResponseEntity<Void>``

Integration Testing Specification

- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** {...}

LabInstrumentController

Base Path: `/store/lab/instruments`

API Endpoints:

- **GET** `/store/lab/instruments`
 - **Method:** `getAll`
 - **Params:** ``
 - **Returns:** `List<LabInstrument>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** {...}
- **GET** `/store/lab/instruments/{id}`
 - **Method:** `getById`
 - **Params:** `@PathVariable Long id`
 - **Returns:** `ResponseEntity<LabInstrument>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** {...}
- **POST** `/store/lab/instruments`
 - **Method:** `create`
 - **Params:** `@RequestBody LabInstrument instrument`
 - **Returns:** `LabInstrument`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** {...}
- **PUT** `/store/lab/instruments/{id}`
 - **Method:** `update`
 - **Params:** `@PathVariable Long id, @RequestBody LabInstrument instrument`
 - **Returns:** `ResponseEntity<LabInstrument>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** {...}
- **DELETE** `/store/lab/instruments/{id}`
 - **Method:** `delete`

Integration Testing Specification

- **Params:** `@PathVariable Long id`
- **Returns:** `ResponseEntity<Void>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

LabInventoryTransactionController

Base Path: `/store/lab/inventory`

API Endpoints:

- **GET** `/store/lab/inventory`
 - **Method:** `getAll`
 - **Params:** ``
 - **Returns:** `List<LabInventoryTransaction>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
- **GET** `/store/lab/inventory/{id}`
 - **Method:** `getById`
 - **Params:** `@PathVariable Long id`
 - **Returns:** `ResponseEntity<LabInventoryTransaction>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
- **POST** `/store/lab/inventory`
 - **Method:** `create`
 - **Params:** `@RequestBody LabInventoryTransaction transaction`
 - **Returns:** `LabInventoryTransaction`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
- **PUT** `/store/lab/inventory/{id}`
 - **Method:** `update`
 - **Params:** `@PathVariable Long id, @RequestBody LabInventoryTransaction transaction`
 - **Returns:** `ResponseEntity<LabInventoryTransaction>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`

Integration Testing Specification

- **DELETE** `/store/lab/inventory/{id}`
- **Method:** `delete`
- **Params:** `@PathVariable Long id`
- **Returns:** `ResponseEntity<Void>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

LabMaterialController

Base Path: `/store/lab/materials`

API Endpoints:

- **GET** `/store/lab/materials`
- **Method:** `getAll`
- **Params:** ``
- **Returns:** `List<LabMaterial>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **GET** `/store/lab/materials/{id}`
- **Method:** `getById`
- **Params:** `@PathVariable Long id`
- **Returns:** `ResponseEntity<LabMaterial>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **POST** `/store/lab/materials`
- **Method:** `create`
- **Params:** `@RequestBody LabMaterial material`
- **Returns:** `LabMaterial`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **PUT** `/store/lab/materials/{id}`
- **Method:** `update`
- **Params:** `@PathVariable Long id, @RequestBody LabMaterial material`
- **Returns:** `ResponseEntity<LabMaterial>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic

Integration Testing Specification

- **Sample Request Body:** {...}
- **DELETE** `/store/lab/materials/{id}`
- **Method:** `delete`
- **Params:** `@PathVariable Long id`
- **Returns:** `ResponseEntity<Void>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** {...}

LeaveController

Base Path: `/api/leaves`

API Endpoints:

- **GET** `/api/leaves`
- **Method:** `getAllLeaves`
- **Params:** ``
- **Returns:** `ResponseEntity<List<Leave>>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** {...}
- **POST** `/api/leaves`
- **Method:** `createLeave`
- **Params:** `@RequestBody Leave leave`
- **Returns:** `ResponseEntity<Leave>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** {...}
- **DELETE** `/api/leaves/{id}`
- **Method:** `deleteLeave`
- **Params:** `@PathVariable Long id`
- **Returns:** `ResponseEntity<Void>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** {...}

Integration Testing Specification

LeaveRequestController

****Base Path:**** `/api`

API Endpoints:

- ****POST**** `/api/leave-requests/employee`
 - ****Method:**** `submitLeaveRequest`
 - ****Params:**** `@RequestBody LeaveRequestDTO dto`
 - ****Returns:**** `ResponseEntity<LeaveRequestDTO>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** `{...}`
- ****GET**** `/api/leave-requests/employee/{employeeId}`
 - ****Method:**** `getLeaveRequestsByEmployee`
 - ****Params:**** `@PathVariable String employeeId`
 - ****Returns:**** `ResponseEntity<List<LeaveRequestDTO>>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** `{...}`
- ****GET**** `/api/leave-requests/hr/all`
 - ****Method:**** `getAllLeaveRequests`
 - ****Params:**** ``
 - ****Returns:**** `ResponseEntity<List<LeaveRequestDTO>>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** `{...}`
- ****GET**** `/api/leave-requests/hr/status/{status}`
 - ****Method:**** `getLeaveRequestsByStatus`
 - ****Params:**** `@PathVariable String status`
 - ****Returns:**** `ResponseEntity<List<LeaveRequestDTO>>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** `{...}`
- ****GET**** `/api/leave-requests/non-approved`
 - ****Method:**** `getNonApprovedLeaveRequests`
 - ****Params:**** ``
 - ****Returns:**** `ResponseEntity<List<LeaveRequestDTO>>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** `{...}`

Integration Testing Specification

- **PUT** `/api/leave-requests/hr/{id}/approve``
- **Method:** `approveLeaveRequest``
- **Params:** `@PathVariable Long id, @RequestParam(required = false) String hrComments``
- **Returns:** `ResponseEntity<LeaveRequestDTO>``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **PUT** `/api/leave-requests/hr/{id}/reject``
- **Method:** `rejectLeaveRequest``
- **Params:** `@PathVariable Long id, @RequestParam(required = false) String hrComments``
- **Returns:** `ResponseEntity<LeaveRequestDTO>``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **DELETE** `/api/leave-requests/{id}``
- **Method:** `deleteLeaveRequest``
- **Params:** `@PathVariable Long id``
- **Returns:** `ResponseEntity<Void>``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **GET** `/api/holidays``
- **Method:** `getAllHolidays``
- **Params:** ````
- **Returns:** `List<LeaveRequestDTO>``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **GET** `/api/holidays/{id}``
- **Method:** `getHolidayById``
- **Params:** `@PathVariable Long id``
- **Returns:** `LeaveRequestDTO``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **POST** `/api/holidays``
- **Method:** `addHoliday``
- **Params:** `@RequestBody LeaveRequestDTO dto``
- **Returns:** `LeaveRequestDTO``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

Integration Testing Specification

- **PUT** `/api/holidays/{id}`
 - **Method:** `updateHoliday`
 - **Params:** `@PathVariable Long id, @RequestBody LeaveRequestDTO dto`
 - **Returns:** `LeaveRequestDTO`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
- **DELETE** `/api/holidays/{id}`
 - **Method:** `deleteHoliday`
 - **Params:** `@PathVariable Long id`
 - **Returns:** `void`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`

LogisticsDocumentController

Base Path: `/api/logisticsdocuments`

API Endpoints:

- **GET** `/api/logisticsdocuments`
 - **Method:** `getAllLogisticsDocuments`
 - **Params:** ``
 - **Returns:** `ResponseEntity<List<LogisticsDocument>>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
- **GET** `/api/logisticsdocuments/{id}`
 - **Method:** `getLogisticsDocumentById`
 - **Params:** `@PathVariable Long id`
 - **Returns:** `ResponseEntity<LogisticsDocument>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
- **POST** `/api/logisticsdocuments`
 - **Method:** `createLogisticsDocument`
 - **Params:** `@RequestBody LogisticsDocument logisticsDocument`
 - **Returns:** `ResponseEntity<LogisticsDocument>`

Integration Testing Specification

- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** {...}
- **PUT** `/api/logisticsdocuments/{id}`
- **Method:** `updateLogisticsDocument`
- **Params:** `@PathVariable Long id, @RequestBody LogisticsDocument logisticsDocumentDetails`
- **Returns:** `ResponseEntity<LogisticsDocument>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** {...}
- **DELETE** `/api/logisticsdocuments/{id}`
- **Method:** `deleteLogisticsDocument`
- **Params:** `@PathVariable Long id`
- **Returns:** `ResponseEntity<Void>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** {...}

PerformanceController

Base Path: `/api/performance`

API Endpoints:

- **GET** `/api/performance`
- **Method:** `getAllPerformances`
- **Params:** ``
- **Returns:** `ResponseEntity<List<Performance>>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** {...}
- **GET** `/api/performance/{id}`
- **Method:** `getPerformanceById`
- **Params:** `@PathVariable Long id`
- **Returns:** `ResponseEntity<Performance>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** {...}
- **POST** `/api/performance`
- **Method:** `createPerformance`

Integration Testing Specification

- **Params:** `@RequestBody Performance performance`
 - **Returns:** `ResponseEntity<Performance>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
-
- **PUT** `/api/performance/{id}`
 - **Method:** `updatePerformance`
 - **Params:** `@PathVariable Long id, @RequestBody Performance performanceDetails`
 - **Returns:** `ResponseEntity<Performance>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
-
- **DELETE** `/api/performance/{id}`
 - **Method:** `deletePerformance`
 - **Params:** `@PathVariable Long id`
 - **Returns:** `ResponseEntity<Void>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`

PerformanceReviewController

Base Path: `/api/performance-reviews`

API Endpoints:

```
- GET `/api/performance-reviews/{id}` / Handles HTTP GET requests to /api/performance-reviews/{id}
public ResponseEntity<PerformanceReview> getPerformanceReviewById(@PathVariable Long id) {
    try {
        PerformanceReview review = performanceReviewService.getPerformanceReviewById(id);
        return new ResponseEntity<>(review, HttpStatus.OK); / Returns 200 OK status
    } catch (NoSuchElementException e) {
        return new ResponseEntity<>(HttpStatus.NOT_FOUND); / Returns 404 Not Found if review doesn't exist
    }
}
```



```
/**
 * Endpoint to get all performance reviews in the system.
 * @return ResponseEntity with a list of all performance reviews and HTTP status.
 */
```

Integration Testing Specification

@GetMapping / Handles HTTP GET requests to /api/performance-reviews

```
public ResponseEntity<List<PerformanceReview>> getAllPerformanceReviews() {  
    List<PerformanceReview> reviews = performanceReviewService.getAllPerformanceReviews();  
    return new ResponseEntity<>(reviews, HttpStatus.OK);  
}
```

/**

* Endpoint to get all performance reviews for a specific employee.

* This is useful for displaying all reviews on an employee's profile page.

* @param employeeId The ID of the employee.

* @return ResponseEntity with a list of performance reviews for the employee and HTTP status.

*/

@GetMapping("/employee/{employeeId}") / Handles HTTP GET requests to

/api/performance-reviews/employee/{employeeId}

```
public ResponseEntity<List<PerformanceReview>> getPerformanceReviewsByEmployeeId(@PathVariable String  
employeeId) {
```

```
    try {
```

```
        List<PerformanceReview> reviews = performanceReviewService.getPerformanceReviewsByEmployeeId(employeeId);
```

```
        return new ResponseEntity<>(reviews, HttpStatus.OK);
```

```
    } catch (NoSuchElementException e) {
```

```
        return new ResponseEntity<>(HttpStatus.NOT_FOUND); / Employee not found or no reviews for employee
```

```
    }
```

```
}
```

/**

* Endpoint to get all performance reviews for a specific employee by numeric ID.

* @param id The internal numeric ID of the employee.

* @return ResponseEntity with a list of performance reviews for the employee and HTTP status.

*/

@GetMapping("/employee/byId/{id}")

- **Method:** `getPerformanceReviewsByEmployeeDbId`

- **Params:** `@PathVariable Long id`

- **Returns:** `ResponseEntity<List<PerformanceReview>>`

- **Expected Status:** 200 OK / 4xx / 5xx based on logic

- **Sample Request Body:** {...}

PrinterController

Base Path: `/store/assets/printers`

Integration Testing Specification

API Endpoints:

- **GET** `/store/assets/printers``
- **Method:** ``getAll``
- **Params:** ```
- **Returns:** ``List<Printer>``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **GET** `/store/assets/printers/{id}``
- **Method:** ``getById``
- **Params:** ``@PathVariable Long id``
- **Returns:** ``ResponseEntity<Printer>``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **POST** `/store/assets/printers``
- **Method:** ``create``
- **Params:** ``@RequestBody Printer printer``
- **Returns:** ``Printer``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **PUT** `/store/assets/printers/{id}``
- **Method:** ``update``
- **Params:** ``@PathVariable Long id, @RequestBody Printer printer``
- **Returns:** ``ResponseEntity<Printer>``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **DELETE** `/store/assets/printers/{id}``
- **Method:** ``delete``
- **Params:** ``@PathVariable Long id``
- **Returns:** ``ResponseEntity<Void>``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

PurchaseController

Integration Testing Specification

****Base Path:**** `/api/purchases`

API Endpoints:

- ****GET**** `/api/purchases`
 - ****Method:**** `getAllPurchases`
 - ****Params:**** ``
 - ****Returns:**** `ResponseEntity<List<Purchase>>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}

- ****GET**** `/api/purchases/{id}`
 - ****Method:**** `getPurchaseById`
 - ****Params:**** `@PathVariable Long id`
 - ****Returns:**** `ResponseEntity<Purchase>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}

- ****POST**** `/api/purchases`
 - ****Method:**** `createPurchase`
 - ****Params:**** `@RequestBody Purchase purchase`
 - ****Returns:**** `ResponseEntity<Purchase>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}

- ****PUT**** `/api/purchases/{id}`
 - ****Method:**** `updatePurchase`
 - ****Params:**** `@PathVariable Long id, @RequestBody Purchase purchaseDetails`
 - ****Returns:**** `ResponseEntity<Purchase>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}

- ****DELETE**** `/api/purchases/{id}`
 - ****Method:**** `deletePurchase`
 - ****Params:**** `@PathVariable Long id`
 - ****Returns:**** `ResponseEntity<Void>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}

Integration Testing Specification

RegularStationaryController

****Base Path:**** `/store/stationary/regular`

API Endpoints:

- ****GET**** `/store/stationary/regular`
 - ****Method:**** `getAll`
 - ****Params:**** ``
 - ****Returns:**** `List<RegularStationary>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}
- ****GET**** `/store/stationary/regular/{id}`
 - ****Method:**** `getById`
 - ****Params:**** `@PathVariable Long id`
 - ****Returns:**** `ResponseEntity<RegularStationary>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}
- ****POST**** `/store/stationary/regular`
 - ****Method:**** `create`
 - ****Params:**** `@RequestBody RegularStationary stationary`
 - ****Returns:**** `RegularStationary`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}
- ****PUT**** `/store/stationary/regular/{id}`
 - ****Method:**** `update`
 - ****Params:**** `@PathVariable Long id, @RequestBody RegularStationary stationary`
 - ****Returns:**** `ResponseEntity<RegularStationary>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}
- ****DELETE**** `/store/stationary/regular/{id}`
 - ****Method:**** `delete`
 - ****Params:**** `@PathVariable Long id`
 - ****Returns:**** `ResponseEntity<Void>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}

Integration Testing Specification

RentController

****Base Path:**** `/api/rent`

API Endpoints:

- ****POST**** `/api/rent`
 - ****Method:**** `createRent`
 - ****Params:**** `@RequestBody RentDTO rentDTO`
 - ****Returns:**** `ResponseEntity<RentDTO>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** `{...}`
- ****GET**** `/api/rent`
 - ****Method:**** `getAllRents`
 - ****Params:**** ``
 - ****Returns:**** `ResponseEntity<List<RentDTO>>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** `{...}`
- ****PUT**** `/api/rent/{id}`
 - ****Method:**** `updateRent`
 - ****Params:**** `@PathVariable Long id, @RequestBody RentDTO rentDTO`
 - ****Returns:**** `ResponseEntity<RentDTO>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** `{...}`
- ****DELETE**** `/api/rent/{id}`
 - ****Method:**** `deleteRent`
 - ****Params:**** `@PathVariable Long id`
 - ****Returns:**** `ResponseEntity<Void>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** `{...}`

ReportController

Integration Testing Specification

****Base Path:**** `/api/reports`

API Endpoints:

- ****GET**** `/api/reports`
 - ****Method:**** `getAllReports`
 - ****Params:**** `@RequestParam(required = false) String type, @RequestParam(required = false) String subtype`
 - ****Returns:**** `ResponseEntity<List<ReportWithEmployeeDTO>>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}
- ****GET**** `/api/reports/{id}`
 - ****Method:**** `getReportById`
 - ****Params:**** `@PathVariable Long id`
 - ****Returns:**** `ResponseEntity<Report>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}
- ****POST**** `/api/reports`
 - ****Method:**** `createReport`
 - ****Params:**** `@RequestBody Report report`
 - ****Returns:**** `ResponseEntity<Report>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}
- ****PUT**** `/api/reports/{id}`
 - ****Method:**** `updateReport`
 - ****Params:**** `@PathVariable Long id, @RequestBody Report reportDetails`
 - ****Returns:**** `ResponseEntity<Report>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}
- ****DELETE**** `/api/reports/{id}`
 - ****Method:**** `deleteReport`
 - ****Params:**** `@PathVariable Long id`
 - ****Returns:**** `ResponseEntity<Void>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}

Integration Testing Specification

SalariesController

****Base Path:**** `/api/salaries`

API Endpoints:

- ****POST**** `/api/salaries`
 - ****Method:**** `createSalary`
 - ****Params:**** `@RequestBody SalariesDTO salariesDTO`
 - ****Returns:**** `ResponseEntity<SalariesDTO>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** `{...}`
- ****GET**** `/api/salaries`
 - ****Method:**** `getAllSalaries`
 - ****Params:**** ``
 - ****Returns:**** `ResponseEntity<List<SalariesDTO>>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** `{...}`
- ****PUT**** `/api/salaries/{id}`
 - ****Method:**** `updateSalary`
 - ****Params:**** `@PathVariable Long id, @RequestBody SalariesDTO salariesDTO`
 - ****Returns:**** `ResponseEntity<SalariesDTO>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** `{...}`
- ****DELETE**** `/api/salaries/{id}`
 - ****Method:**** `deleteSalary`
 - ****Params:**** `@PathVariable Long id`
 - ****Returns:**** `ResponseEntity<Void>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** `{...}`

SaleController

****Base Path:**** `/api/sales`

Integration Testing Specification

API Endpoints:

- **GET** `/api/sales`
 - **Method:** `getAllSales`
 - **Params:** ``
 - **Returns:** `ResponseEntity<List<Sale>>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
- **GET** `/api/sales/{id}`
 - **Method:** `getSaleById`
 - **Params:** `@PathVariable Long id`
 - **Returns:** `ResponseEntity<Sale>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
- **POST** `/api/sales`
 - **Method:** `createSale`
 - **Params:** `@RequestBody Sale sale`
 - **Returns:** `ResponseEntity<Sale>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
- **PUT** `/api/sales/{id}`
 - **Method:** `updateSale`
 - **Params:** `@PathVariable Long id, @RequestBody Sale saleDetails`
 - **Returns:** `ResponseEntity<Sale>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`
- **DELETE** `/api/sales/{id}`
 - **Method:** `deleteSale`
 - **Params:** `@PathVariable Long id`
 - **Returns:** `ResponseEntity<Void>`
 - **Expected Status:** 200 OK / 4xx / 5xx based on logic
 - **Sample Request Body:** `{...}`

SIMBillsController

Integration Testing Specification

****Base Path:**** `/api/sim-bills`

API Endpoints:

- ****POST**** `/api/sim-bills`
 - ****Method:**** `createSIMBillExpense`
 - ****Params:**** `@RequestBody SIMBillsDTO simBillsDTO`
 - ****Returns:**** `ResponseEntity<SIMBillsDTO>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** `{...}`
- ****GET**** `/api/sim-bills`
 - ****Method:**** `getSIMBillExpenses`
 - ****Params:**** ``
 - ****Returns:**** `ResponseEntity<List<SIMBillsDTO>>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** `{...}`
- ****PUT**** `/api/sim-bills/{id}`
 - ****Method:**** `updateSIMBillExpense`
 - ****Params:**** `@PathVariable Long id, @RequestBody SIMBillsDTO simBillsDTO`
 - ****Returns:**** `ResponseEntity<SIMBillsDTO>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** `{...}`
- ****DELETE**** `/api/sim-bills/{id}`
 - ****Method:**** `deleteSIMBillExpense`
 - ****Params:**** `@PathVariable Long id`
 - ****Returns:**** `ResponseEntity<Void>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** `{...}`

StaffMemberController

****Base Path:**** `/api/staff`

API Endpoints:

Integration Testing Specification

- **GET** `/api/staff`
- **Method:** `getAllStaff`
- **Params:** ``
- **Returns:** `List<StaffMember>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **GET** `/api/staff/{id}`
- **Method:** `getStaffById`
- **Params:** `@PathVariable Long id`
- **Returns:** `ResponseEntity<StaffMember>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **POST** `/api/staff`
- **Method:** `createStaff`
- **Params:** `@RequestBody StaffMember staffMember`
- **Returns:** `StaffMember`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **PUT** `/api/staff/{id}`
- **Method:** `updateStaff`
- **Params:** `@PathVariable Long id, @RequestBody StaffMember updatedStaff`
- **Returns:** `ResponseEntity<StaffMember>`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **DELETE** `/api/staff/{id}`
- **Method:** `deleteStaff`
- **Params:** `@PathVariable Long id`
- **Returns:** `void`
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

StationaryInventoryTransactionController

Base Path: `/store/stationary/inventory`

Integration Testing Specification

API Endpoints:

- **GET** `/store/stationary/inventory``
- **Method:** `getAll``
- **Params:** ```
- **Returns:** `List<StationaryInventoryTransaction>``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **GET** `/store/stationary/inventory/{id}``
- **Method:** `getById``
- **Params:** `@PathVariable Long id``
- **Returns:** `ResponseEntity<StationaryInventoryTransaction>``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **POST** `/store/stationary/inventory``
- **Method:** `create``
- **Params:** `@RequestBody StationaryInventoryTransaction transaction``
- **Returns:** `StationaryInventoryTransaction``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **PUT** `/store/stationary/inventory/{id}``
- **Method:** `update``
- **Params:** `@PathVariable Long id, @RequestBody StationaryInventoryTransaction transaction``
- **Returns:** `ResponseEntity<StationaryInventoryTransaction>``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

- **DELETE** `/store/stationary/inventory/{id}``
- **Method:** `delete``
- **Params:** `@PathVariable Long id``
- **Returns:** `ResponseEntity<Void>``
- **Expected Status:** 200 OK / 4xx / 5xx based on logic
- **Sample Request Body:** `{...}`

SystemController

Integration Testing Specification

****Base Path:**** `/store/assets/systems`

API Endpoints:

- ****GET**** `/store/assets/systems`
 - ****Method:**** `getAll`
 - ****Params:**** ``
 - ****Returns:**** `List<System>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}
- ****GET**** `/store/assets/systems/{id}`
 - ****Method:**** `getById`
 - ****Params:**** `@PathVariable Long id`
 - ****Returns:**** `ResponseEntity<System>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}
- ****POST**** `/store/assets/systems`
 - ****Method:**** `create`
 - ****Params:**** `@RequestBody System system`
 - ****Returns:**** `System`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}
- ****PUT**** `/store/assets/systems/{id}`
 - ****Method:**** `update`
 - ****Params:**** `@PathVariable Long id, @RequestBody System system`
 - ****Returns:**** `ResponseEntity<System>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}
- ****DELETE**** `/store/assets/systems/{id}`
 - ****Method:**** `delete`
 - ****Params:**** `@PathVariable Long id`
 - ****Returns:**** `ResponseEntity<Void>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}

Integration Testing Specification

TenderController

****Base Path:**** `/api/tenders`

API Endpoints:

- ****GET**** `/api/tenders`
 - ****Method:**** `getAllTenders`
 - ****Params:**** ``
 - ****Returns:**** `ResponseEntity<List<Tender>>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}
- ****GET**** `/api/tenders/{id}`
 - ****Method:**** `getTenderById`
 - ****Params:**** `@PathVariable Long id`
 - ****Returns:**** `ResponseEntity<Tender>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}
- ****POST**** `/api/tenders`
 - ****Method:**** `createTender`
 - ****Params:**** `@RequestBody Tender tender`
 - ****Returns:**** `ResponseEntity<Tender>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}
- ****PUT**** `/api/tenders/{id}`
 - ****Method:**** `updateTender`
 - ****Params:**** `@PathVariable Long id, @RequestBody Tender tenderDetails`
 - ****Returns:**** `ResponseEntity<Tender>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}
- ****DELETE**** `/api/tenders/{id}`
 - ****Method:**** `deleteTender`
 - ****Params:**** `@PathVariable Long id`
 - ****Returns:**** `ResponseEntity<Void>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}

Integration Testing Specification

TravelController

****Base Path:**** `/api/travel`

API Endpoints:

- ****POST**** `/api/travel`
 - ****Method:**** `createTravel`
 - ****Params:**** `@RequestBody TravelDTO travelDTO`
 - ****Returns:**** `ResponseEntity<TravelDTO>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** `{...}`
- ****GET**** `/api/travel`
 - ****Method:**** `getAllTravels`
 - ****Params:**** ``
 - ****Returns:**** `ResponseEntity<List<TravelDTO>>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** `{...}`
- ****PUT**** `/api/travel/{id}`
 - ****Method:**** `updateTravel`
 - ****Params:**** `@PathVariable Long id, @RequestBody TravelDTO travelDTO`
 - ****Returns:**** `ResponseEntity<TravelDTO>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** `{...}`
- ****DELETE**** `/api/travel/{id}`
 - ****Method:**** `deleteTravel`
 - ****Params:**** `@PathVariable Long id`
 - ****Returns:**** `ResponseEntity<Void>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** `{...}`

WaterBillsController

Integration Testing Specification

****Base Path:**** `/api/water-bills`

API Endpoints:

- ****POST**** `/api/water-bills`
 - ****Method:**** `createWaterBillExpense`
 - ****Params:**** `@RequestBody WaterBillsDTO request`
 - ****Returns:**** `ResponseEntity<WaterBillsDTO>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}
- ****GET**** `/api/water-bills`
 - ****Method:**** `getWaterBillExpenses`
 - ****Params:**** ``
 - ****Returns:**** `ResponseEntity<List<WaterBillsDTO>>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}
- ****PUT**** `/api/water-bills/{id}`
 - ****Method:**** `updateWaterBillExpense`
 - ****Params:**** `@PathVariable Long id, @RequestBody WaterBillsDTO request`
 - ****Returns:**** `ResponseEntity<WaterBillsDTO>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}
- ****DELETE**** `/api/water-bills/{id}`
 - ****Method:**** `deleteWaterBillExpense`
 - ****Params:**** `@PathVariable Long id`
 - ****Returns:**** `ResponseEntity<Void>`
 - ****Expected Status:**** 200 OK / 4xx / 5xx based on logic
 - ****Sample Request Body:**** {...}

WeeklyActivityController

****Base Path:**** `/api/activities`

API Endpoints: