### **🚀 Workshop 5 Report**

Below is a structured report based on the **workshop tasks**:

## **Workshop 5 Report**

**Student Name:** [Your Name]  
 **Date:** [Today's Date]  
 **Project Name:** [Interactive Calendar / Task Manager]

### **✅ Activity One: SRP & DRY Compliance Check**

#### **What I Checked**

* **Single Responsibility Principle (SRP)**: Ensures each class/module has a single responsibility.
* **Don’t Repeat Yourself (DRY)**: Ensures that code duplication is minimized.

#### **Findings**

| **Class/Component** | **SRP Compliance** | **DRY Compliance** | **Issues Found** |
| --- | --- | --- | --- |
| DayPlanner.jsx | ✅ Yes | ✅ Yes | No major issues. Well-structured. |
| TaskManager.js | ❌ No | ❌ No | Functions handle both UI and logic. Needs separation. |
| db.js (Backend) | ✅ Yes | ❌ No | Some query logic is repeated. Consider using a helper function. |

#### **Improvements Needed**

1. **Refactor TaskManager.js**: Move database operations to a separate module.
2. **Create a Helper Function for Queries**: Avoid repeating SELECT and INSERT queries in different files.

### **✅ Activity Two: GitHub Changes & Commits**

#### **Steps I Followed**

* Used **git commit -m "Refactored TaskManager for SRP"** to save changes.
* Used **git push origin main** to upload updates to GitHub.
* Below are screenshots of my commit history.

**📸 Screenshots of GitHub commits** *(Attach images of your commit history from GitHub or git log in the terminal.)*

### **✅ Activity Three: Project Progress & Issues**

#### **Project Progress**

* ✅ **Frontend completed**: Calendar and task planner UI is functional.
* ✅ **Backend setup**: MySQL database connected successfully.
* ✅ **Task CRUD operations working**: Can add, delete, and list tasks.
* 🚧 **Refactoring ongoing**: Improving code structure for SRP compliance.

#### **Issues Faced & Solutions**

| **Issue** | **Solution Attempted** | **Current Status** |
| --- | --- | --- |
| MySQL connection refused (Error 2003) | Restarted MySQL and changed port | ✅ Fixed |
| migrations.js module not found | Created migrations.js manually | ✅ Fixed |
| TaskManager violating SRP | Started refactoring into separate modules | 🔄 In Progress |

### **✅ Summary**

* Checked **SRP & DRY** compliance and identified refactoring areas.
* Committed changes and **pushed updates to GitHub** (screenshots attached).
* **Resolved MySQL and migration issues** but still improving project structure.

### **📌 Next Steps**

1. **Complete refactoring** for better SRP compliance.
2. **Optimize database queries** to remove redundancy.
3. **Prepare final presentation and documentation**.

🔹 **This report is ready for submission!** 🚀 Let me know if you need **edits or additional details**. 😊