Term Project

Technical-Spec-v1

CS 151: Object-Oriented Design
Prof: Ahmad Yazdankhah

Team Number	12	**Section**	04
Team Members	1. Amy Do: Create and clean Doc, completed Introduction, sequence diagram 2. Angelo Abellan: UML class and sequence diagram, Data model, UI for pages, 3. Leonardo Garcia: UML class and polymorphism diagram, set up project in MVC architecture, and worked on DAOs classes to permanently store and retrieve information 4. Omar Yassin: UML class and sequence diagram, courseEntries modules, sorting features in other classes		
Software Name	FacultySync		

1 Introduction

1.1 Objective

This report describes the technical specification of FacultySync, a single-user desktop application used as a scheduling and management tool for faculty hours. FacultySync allows users to define semester office hours, add, edit, or delete student appointments. The target audience of this report is all the faculty members; they only require minimal knowledge of using computers.

1.2 References

1. Yazdankhah, Ahmad, “CS151 Lecture Notes, Spring 2025”
2. UML and sequence Diagram: https://app.diagrams.net/

1.3 Acronyms and Abbreviations

DB	**Database**
DAO	**Data Access Object**
int	**interface**

2 Detailed Design

2.1 Data Model

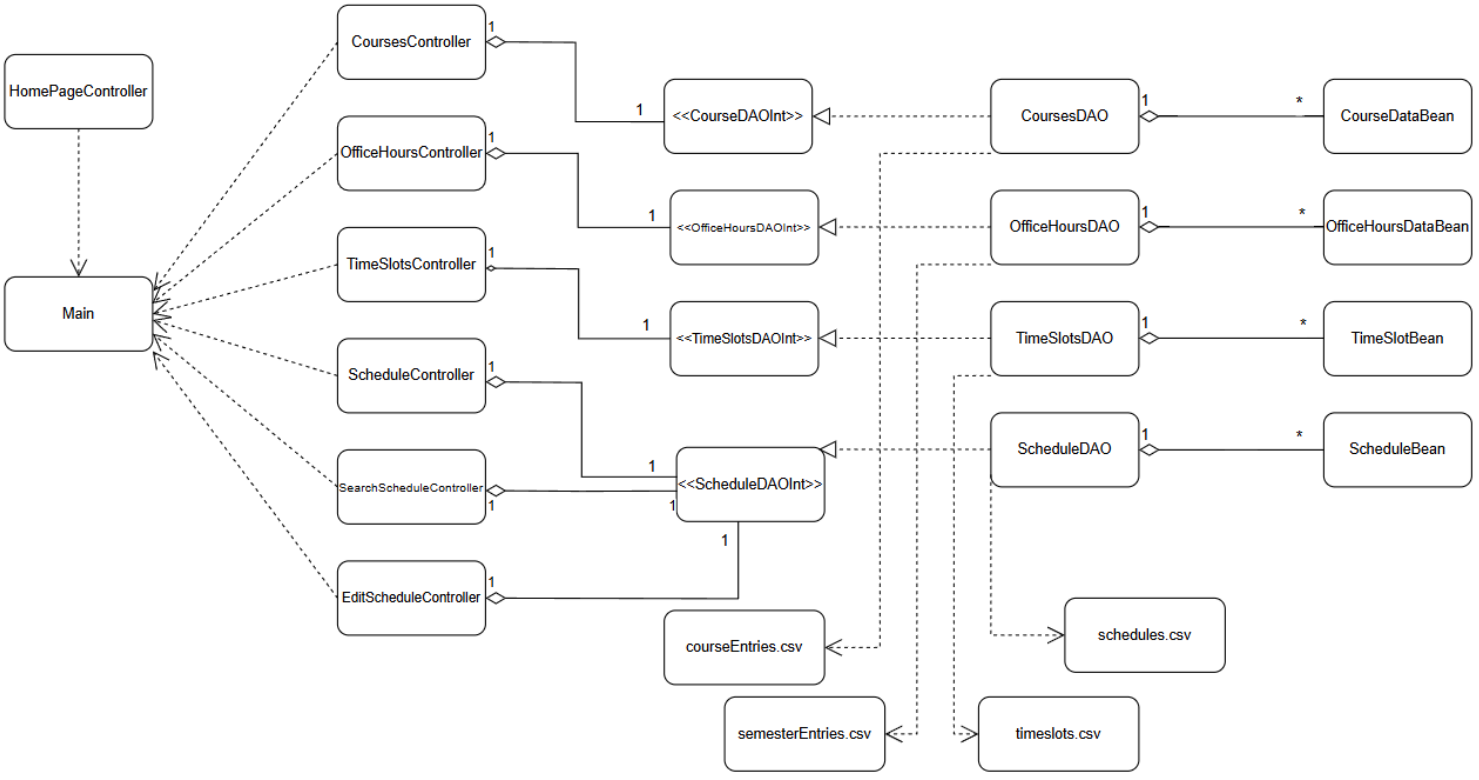
2.1.1 Data Storage Characteristics

Entities type	Flat File

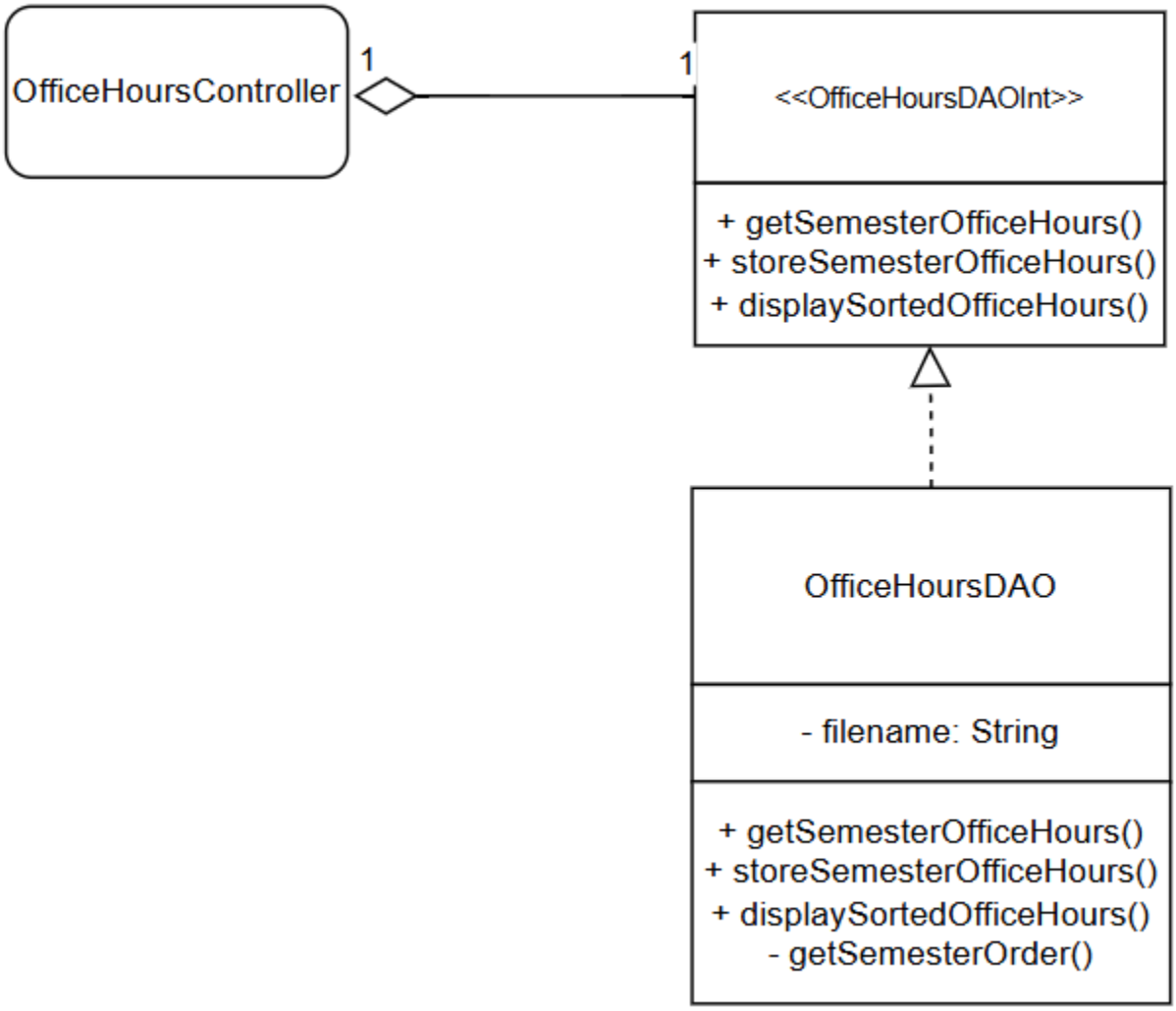
2.1.2 Entities Names

1	courseEntries.csv
2	schedules.csv
3	semesterEntries.csv
4	timeslots.csv

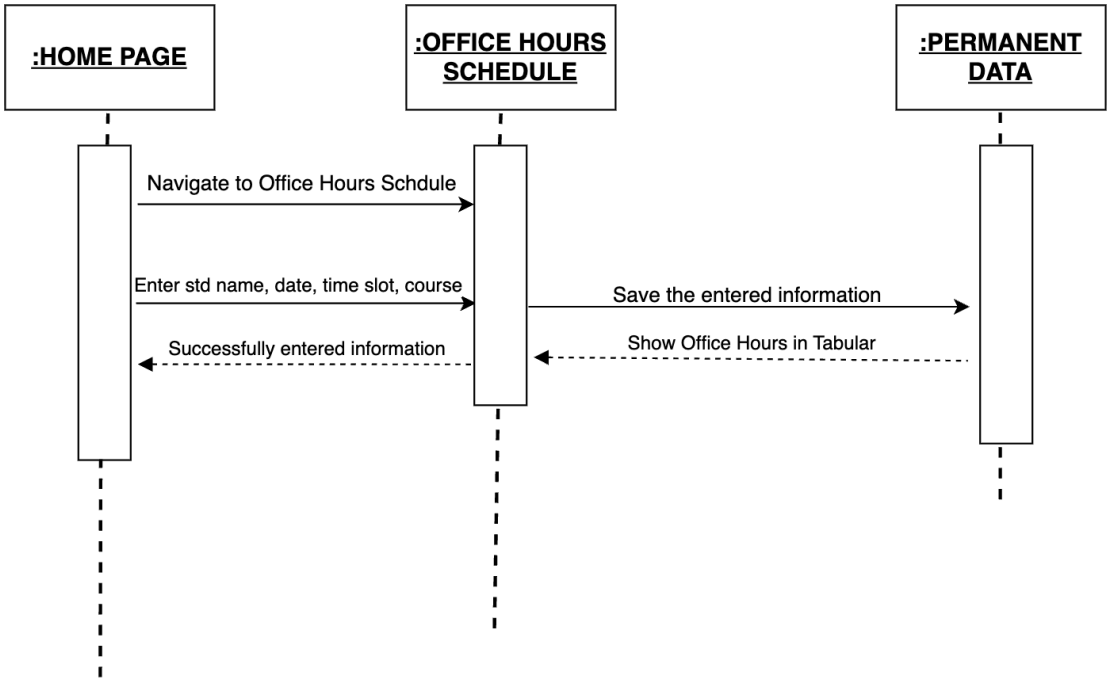
2.2 UML Class Diagram



-**Class diagram using polymorphism:**



2.3 UML Sequence Diagrams


:HOME PAGE
:OFFICE HOURS SCHEDULE
:PERMANENT DATA
Navigate to Office Hours Schdule
Enter std name, date, time slot, course
Save the entered information
Successfully entered information
Show Office Hours in Tabular