

# CIS 2373 - Java III Programming Project

*For this project, you will be creating an entire Web Application from scratch.*

**(200 Points)**

## ***The Dentist Office Appointment Web Application***

### **Project Description:**

In this project you will create an Enterprise Application that may be used by a Dentist Office Patient or one of the Dentists.

A **Patient** Should be able to:

- I. Login
- II. View/Change their current name, address info
- III. View/Change their next Dentist Appointment
- IV. Add a new Appointment if they do not already have an appointment

A **Dentist** Should be able to:

- I. Login
- II. View/Change their current name, address info
- III. View their upcoming appointments

**Note:** There is one major assumption for this Project. That is that a Patient can only schedule one appointment at a time. They cannot have multiple appointments. That is they cannot make a new appointment if they already have an appointment. They must wait until their current appointment is finished before they make a new appointment.

The data needed for this Web App will be stored in a MS Access database. The Instructor will provide the database. See "**DentistOffice.accdb**" in the Project Folder.

Use the MVC(Model/View/Controller) Architecture the way we discussed in class. Your Enterprise Application should include:

- HTML/JSP files
- Servlets
- Business Objects

## **Project Requirements:**

### ***PART I: Analysis and Design(30 Points)***

Before you begin Coding, sit down and plan out your project. What Business Objects will you need? What JSPs will you need? What Servlets will you need? Which part of the project should you create first??? You will need to include a flow diagram and a list of components needed for this project. The flow diagram will describe the flow of your Web App, including which JSPs call which servlets, and which Servlets use which Business Objects, etc.

***PART II: Code(90 Points)*** Create all the pieces of this application used by a Patient. (See details of Patient requirements above).

***PART III: Code(60 Points)*** Create all the pieces of this application used by a Dentists. (See details of Dentist requirements above).

***PART IV: Documentation(20 Points)*** Create Documentation for all Java classes for this Web App Project using Java Doc. Also, you must comment your code completely. I will ask you to print out one of your project components. And I will determine your documentation grade based on this item.

### **Getting Credit for your Project:**

Do not print your code. Near the end of the Semester, **Make a Video of your Working Project and Submit by Tues May 1, 2021, 11:55pm.**

### **When is the Project Due?**

The Project is DUE on Tues May 1. The latest to turn in the Project would be 11:55pm on Tues May 1. No exceptions.