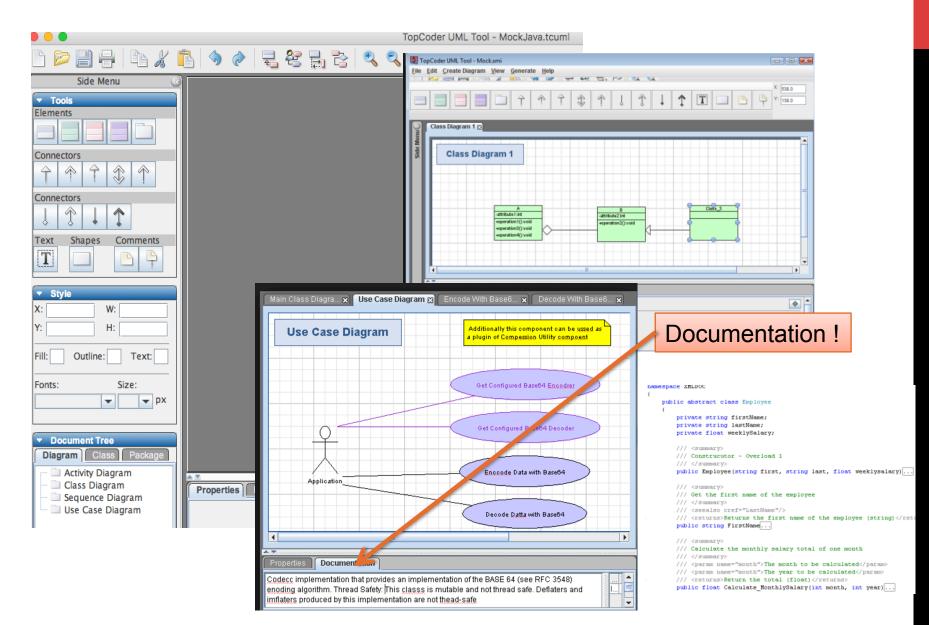
# UML TOOLS (PART 2)

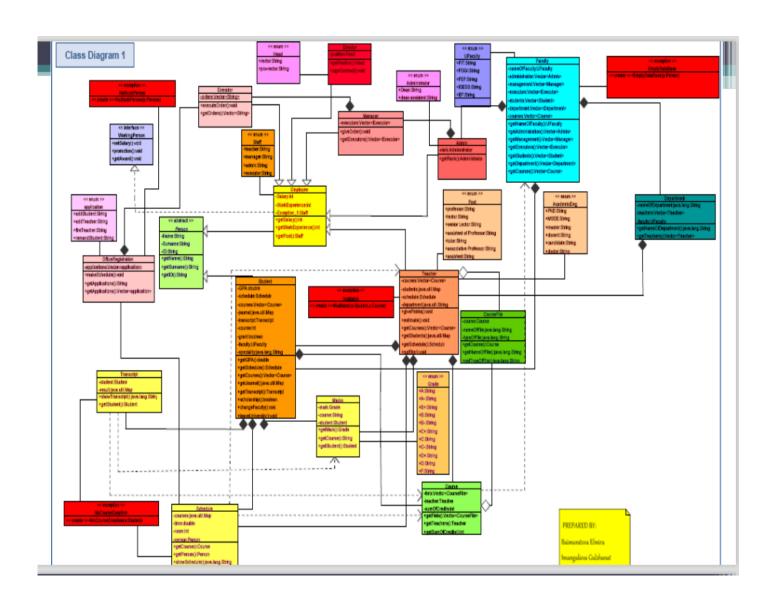
## SOME OF THE OPTIONS...

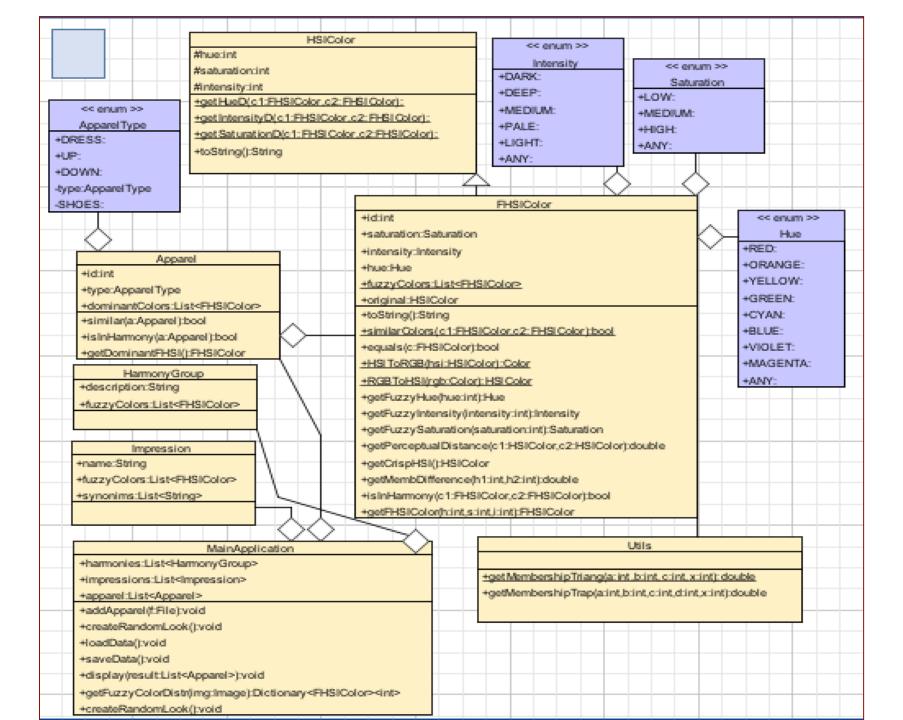
- ArgoUML
- Astah
- TopCoder UML Tool
- Modelio
- StarUML
- NClass
- Umbrello UML Modeller
- Most reputable IDEs also have UML (e.g., Eclipse, Netbeans, Visual Studio, etc.)
- Many, many others…

# **TOP CODER UML TOOL**

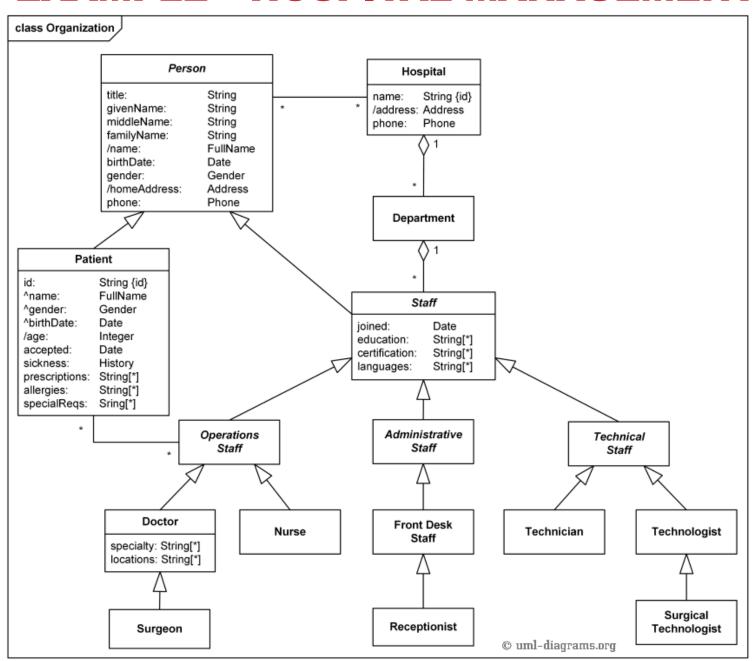


# **EXAMPLES**

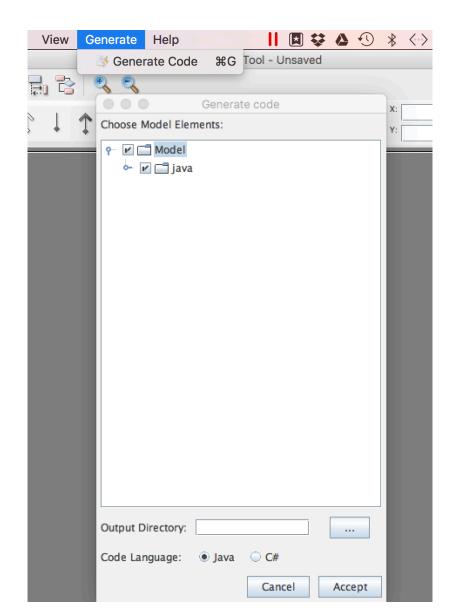




#### **EXAMPLE - HOSPITAL MANAGEMENT**



## **GENERATING A CODE**



Suppose you created a class diagram and generated the code. As you start the implementation, you, for sure, will need to change some fields or methods or even add a new class.

How to do it? ---> Reverse engineering

## **DOCUMENTATION**

- It is important to provide adequate documentation for all of your applications.
- Provide enough comments to enable a developer who was not involved in creating the original application to follow and understand how the application works.
- Visual Studio allows you to write documentation and easily integrate it to IDE.
- Majority of UML Tools allow you to prepare documentation at a design stage

### **GENERATING DOCUMENTATION**

- You can use C# comments to generate XML documentation for your applications.
- Documentation comments begin with three forward slashes (///) followed by an XML documentation tag.

```
/// <summary>
/// Calculate the monthly salary total of one month
/// </summary>
/// <param name="month">The month to be calculated</param>
/// <param name="month">The year to be calculated</param>
/// <returns>Return the total (float)</returns>
public float Calculate_MonthlySalary(int month, int year)...
```

 You can compile the XML tags and documentation into an XML file by using the C# compiler with the /doc option:

```
csc myprogram.cs /doc:mycomments.xml
```

 If there are no errors, you can view the XML file that is generated by using a tool such as Internet Explorer.

## **RESULT**