

# SMS

## School Management System



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# Introduction

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- ❑ A School Management System is a large database system which can be used for managing school's daily work.
- ❑ It is configurable and can be configured to meet most individual school's needs.
- ❑ It is a multi-user system and can be used by thousands of users at same time.
- ❑ General speaking, it is platform running on a Local Area Network (LAN).



## Motivation

- ☐ Introduction
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# Motivation (1)

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- Every School is working on a developed strategy which aims the development of scalable structures in all the high schools of their respective countries.
- Most of the high schools are already equipped with necessary hardware and network structures .
- Open issue:
  - ▣ Managing the information electronically.
- Solution:
  - ▣ School Management System

# Motivation (2)

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- Goals:
  - ▣ managing information on students,
  - ▣ employees,
  - ▣ teaching processes
  - ▣ etc...
  
- Initiative of a Professional High School .

## System Development

- Introduction
- Motivation
- **System Development**
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# System Development



## System Development

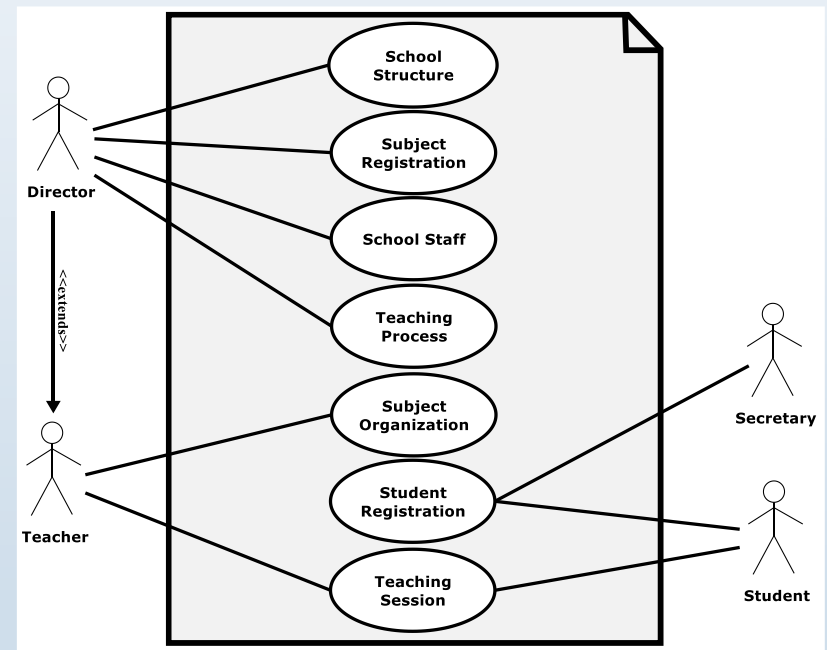
- Analysis and Definition
- Design
  - ▣ Data Model
  - ▣ Software Model
- Implementation



# Analysis & Definition

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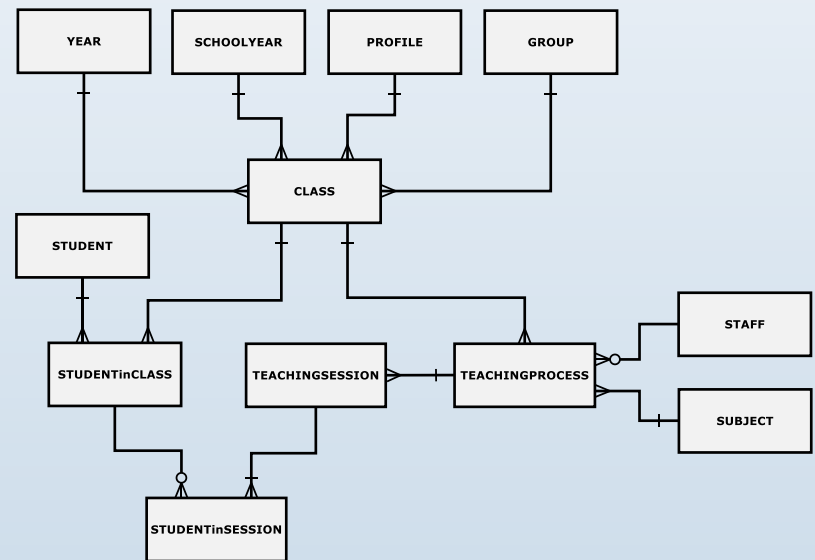
- The requirements specification document was created.
- Existing documents were a good reference.



# Design (Data Model)

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- We made decisions regarding how best to take the system in the real world and model it in a database.
- A well-designed database takes time and effort to conceive, build and refine.



# Design (Software Model)

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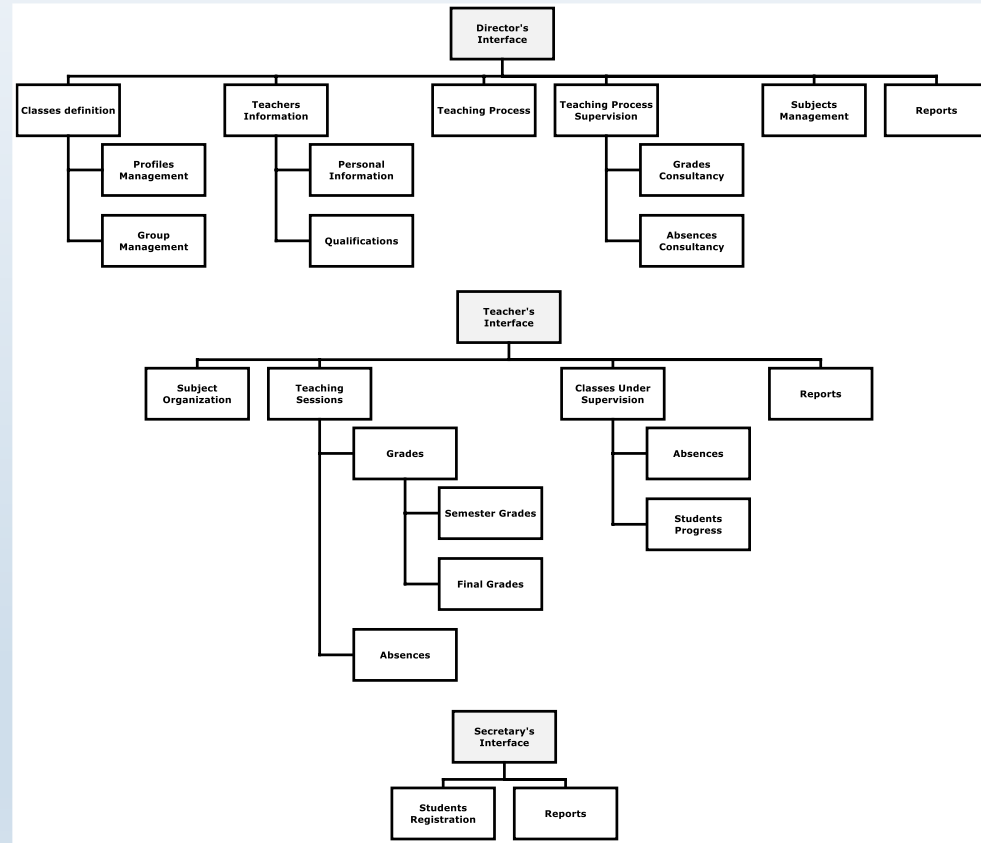
- ❑ Object-Oriented Modeling technique.
- ❑ Designed in order to define a good ORM.
- ❑ The model better describes interactions and relationships between objects representing real life entities.

# Implementation

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- 3 levels of users with different rights upon the data/information that can be stored, retrieved or modified:

- Director
- Teachers
- Secretary
- Parents





## Conclusions

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# Technologies

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- ❑ Java 8
- ❑ Spring / Spring Boot
- ❑ Spring Securities
- ❑ PostgreSQL
- ❑ Tomcat 8
- ❑ Hibernate

# Conclusions

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- The need of managing the information electronically is growing rapidly in all important areas.
- School Management Systems are being identified as an appropriate method for managing information in schools.
- SMS was built based on real life situations in high school, taking into consideration all possible situations and functionalities of the daily work in these schools.
- This system maybe considered as a good first step in implementing performing electronic based information management in schools.

# Screen Shots



# Home Page

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### USER LOG IN


Username :

Password :

[log in](#)

# Result

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Here only total marks and GPA of each student are given. Registered user can see the details after **login**.

If you re-select Academic year or Class then you must select your desire section again.


Academic Year :

Roll No.	Name	Marks
No records found.		

right

# Class Routine

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Academic Year :

Class :

Section :

Group :

Day :

Period	Subject	Teacher
No records found.		

# Benefits of our Technologies

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- ❑ Java based systems are the most secured systems in the world.
- ❑ Securities that we provide will be of OWASP standards.
- ❑ Hack proof systems.
- ❑ Multithreaded.
- ❑ Can be accessed from anywhere in the world.
- ❑ Staging of Roles.

# Hardware Requirement for Demo

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- 4GB RAM
- 40GB Hard Disk
- Dual-core 1.8 GHz

# Hardware Requirement for Data Centre

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- ❑ 16GB RAM
- ❑ 40GB SSD Hard Disk
- ❑ Dual-core 1.8 GHz (Minimum)
- ❑ Dual-core 2.8 GHz (Recommended)



Thank You!