

# Design and Building 2

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## General Information

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# Requirements – from QM

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## □ Warehouse Monitoring System

- Your company is requested to design and build a prototype of **a warehouse monitoring system** that uses an automatic robot to work in place and report the status of the warehouse to a web application for monitoring.
- There are **a web (or mobile) application (IoT students)** provides current and historical information (e.g. name, type, positions, etc.) of the goods to the workers and **a management web system for the managers(E-commerce students)**. A database should be designed to manage all information for the whole system.

# Requirements – from QM

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- ❑ **Co-design the database with the IoT students;**
- ❑ **create a web application that has the following functions:**
  - allow managers to log in and out;
  - allow managers to create warehouses and add/delete workers from the system;
  - display the good status (e.g. positions of goods) and information (e.g. the kind of goods) for each of the warehouses;
- ❑ **Extra functions:**
  - generate data analysis reports and visualisations;
  - self-designed other functions.

# Books

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## □ References

### ■ HTML/HMTL5/CSS/CSS3

- <http://www.w3schools.com/html/>

### ■ Servlet

- <https://www.runoob.com/servlet/servlet-intro.html>

### ■ JSP

- <https://www.runoob.com/jsp/jsp-tutorial.html>

# Training Goals

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- **Find a good and suitable way to learn new technology.**
  - Make good use of internet
- **Good team work spirit**
- **Good communication skill**
  - Timely communication will help you to overcome difficulties.
  - Good communication will make your team work go smoothly.

# Training Goals - cont

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- Explore your activeness
- Exercise self-learning ability
- Cultivate Persistence & Patience
- Improve the ability of finding and solving problems
- .....

# 基本信息

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## □ 课程的信息发布方式：

- 直播平台：腾讯会议（会议号741688050）
- 答疑平台：爱课堂（学号登陆即可看到课程）和QQ群（群号552059040）
  - 默认所有同学上课时间QQ群在线，可以收到群消息
- 资源平台：爱课堂

## □ 发布的信息包含：

- 授课课件
- 实践指导手册
- 实践报告模板
- 实践例程
- 其它信息

# 授课安排

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## □ 授课方式：集中-分组

- 集中授课：除了直播课，其余通过腾讯会议进行，时间长短由每节课问题决定
- 分组实践：各组自行讨论推进工作，教师在QQ群线上答疑
- 如果问题较多，课中会增加集中授课时间

## □ 点名方式：

- 线上签到（每次课开课后15分钟and下课前15分钟）

## □ 检查工作内容方式：

- 在QQ群内随机通知检查小组
- 检查小组个数根据当天教学时间安排决定
- 被抽到的小组腾讯会议上线汇报工作并接受老师的提问



# Schedule

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07.03 –07.08				
07/04	07/05	07/06	07/07	07/08
08:50-12:15	08:50-12:15	08:50-12:15	08:00-12:15	08:00-12:15
project	project	project	project	project
13:00-16:25	13:00-16:25	13:00-16:25	13:00-17:20	13:00-17:20
project	project	project	project	project

# Web Project Requirements

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## □ For final project:

- You **may** choose web technologies like HTML, JavaScript, CSS and JSP to implement **Webpages**;
- You **must** choose **JAVA SERVLET** to implement **Server side**;
- You **must** choose **MySQL** as your **Database**;
- MyEclipse is highly recommended for the **IDE**;
- You are also suggested to extend project with the most popular tech like Struts, Spring Framework , Hibernate and Ajax if you have more potential;

# Web Project Requirements

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## □ For final project:

- You should pay more attention on the following:
  - Correctness
  - quality of design
    - presentation and ease of use
    - architecture of web project
    - Reasonable business logic and data storage solution
    - ...
  - Documentation

# Web Project Requirements

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## □ For submit:

- Late project will **not** be accepted.
- Students must hand in a report, source code and sql script.
- Project is expected to be your own teamwork.
  - Giving and receiving major sections of code will be considering cheating;
  - All parties(giving or receiving)will be punished. At least they will get 0 grade.
- Learn how to code by yourself and take pride in the work you do! Don't cheat.

# Course evaluation

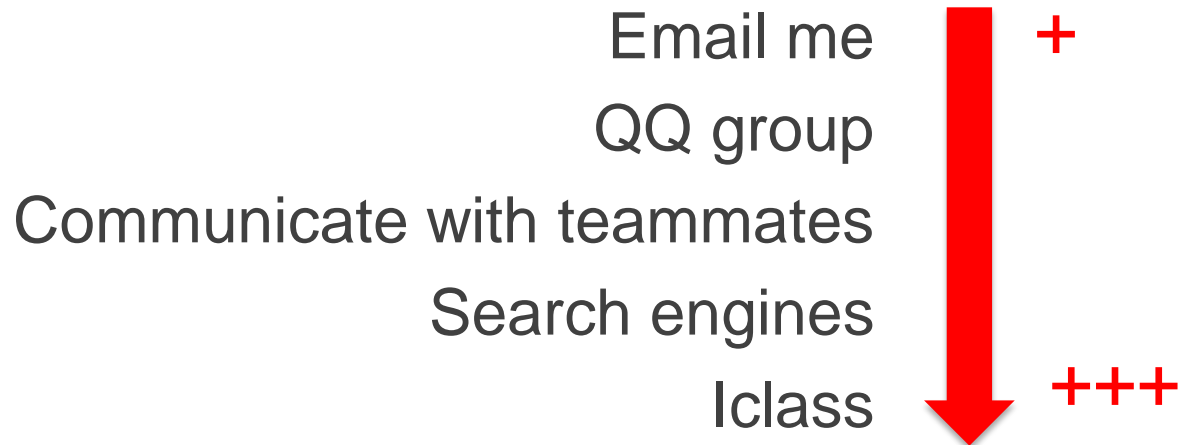
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- ❑ Finished project as required & contribution to your team.
- ❑ The projects are marked on finished work base, you are suggested to finish as much work as you can.
- ❑ The midterm evaluation will cover 50% of the final score.

# Getting Help

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priority



# Others

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- ❑ Do not read books page by page!!!
- ❑ Be patient, careful and insistent.
- ❑ Questions and advices are welcome.