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REliable, **IN**telligent and **S**calable Systems Group (**REINS**) REIN REIN

Shanghai Jiao Tong University

REin REin Shanghai, China REIn REin REin

REj REj Rhttp://reins.se.sjtu.edu.cn/~chenhp

PEjn PEjn PEje-mail: chen-hp@sjtu.edu.cn

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Syllabus



- What are Web Application? 1
 - Features of web applications
 - Notions of web applications
- Access Database via PHP LAMP 1
 - Get connection to DB
 - Send SQL statement and receive result
 - Front-end and Back-end
- Access Database via Java EE 2
 - Java EE and JDBC Specification
 - DriverManager vs. DataSource
 - JNDI (Java Naming and Directory Interface)
 - Statements and Results
 - Call stored procedures
 - Call functions

Syllabus



- Development with JSP and Servlet 2
 - JSP and Servlet
 - Session management
 - Forward and redirect
 - Integrate with JDBC reading
- Development with SSH frameworks 4
 - Struts MVC
 - Spring IoC
 - Hibernate ORM
- App Servers 1
 - Tomcat
 - JBoss

Syllabus



- Development with .NET 1
 - C#.NET
 - Access DB via ODBC
 - ORM NHibernate
- Representation layer 1
 - JS Jquery, Ext JS,
 - ActionScript flex
- XML DB & NoSQL DB 2
 - Sedna XML DB
 - MongoDB NoSQL DB
- Review 1
 - And conclusion

Project



3 iterations

- 5th week: LAMP version commit to elearning
- 10th week: Java EE version JSP and Servlet Face-to-face check
- 16th week: Java EE version SSH+RIA Face-to-face check

Requirement:

- To develop a web application: Book store.
- User management: registration, login/logout, remove, query
- Book selling: the registered users can browse the books, add them to the shopping cart, and pay for them.
- Sales statistics: by user, by day/month/year, by categories
- We will publish the specific requirements in every class.

Schedule & Textbook



Schedule

- Weekly: Thursday 08:00-09:40 下院307
- Office hour: Wednesday 14:00-16:00 Software Building 1111

• TA

- 张祺智 <u>mclaren1992@163.com</u>
- 孙健俞 <u>sjy801@qq.com</u>

Textbook

- No textbook
- References will be given in classes

Website

http://reins.se.sjtu.edu.cn/courses/se223-spring-2015



Thank You!