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软件工程

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2.3

Software Organization

Roles in SW Organization

■ Project manager

◆ Responsibility ---- responsible for all non-technical issues

- Plan
- Manage
- Lead
- Control



Roles in SW Organization

■ Architect

◆ Responsibility ---- responsible for all technical issues

- Requirement
- Analysis
- Design
- Development
- Testing
-



Roles in SW Organization

- **Business consultant**
 - ◆ **Responsibility ---- responsible for business requirements of client and users;**
 - ◆ **Researches the inner workings of the target system and is involved with how the business rules are integrated into the project**



Roles in SW Organization

■ Analyst

- ◆ **Responsibility ---- responsible for analyzing of business requirements**

Roles in SW Organization

■ Designer

- ◆ Responsibility ---- responsible for the design of the software system
 - ◆ Module design
 - ◆ Algorithm design
 - ◆ DB design
 - ◆



Roles in SW Organization

- **Software engineer --- programmer**
 - ◆ **Responsibility ---- to implement designer's detailed design in some computer languages**



Roles in SW Organization

- **DBA ---- Database Administrator**
 - ◆ **Responsibility ---- the only one who can operate and maintain DB directly, and makes final decision on important DB issues**



Roles in SW Organization

- **SQA manager**
- **SQA engineer**
 - ◆ **Responsibility ---- responsible for the assurance of software quality and all testing issues, such as testing plan, testing cases and so on.**



Roles in SW Organization

- **Deployment manager**
- **Deployment engineer**
 - ◆ **Responsibility ---- responsible for all the deploying issues, including deploying the project, the database, files and so on, to make sure that the system can run normally.**



Roles in SW Organization

- **Art engineer**
 - ◆ **Responsibility ---- responsible for the issues, such as the look and feel, and user experience and etc.**



Roles in SW Organization

- **Product manager**
 - ◆ **Responsibility ---- responsible for all product-related issues, including planning, managing, marketing, developing, spreading and so on**



Roles in SW Organization

- **Market person / Salesman**
 - ◆ **Responsibility ---- responsible for marketing and sales of software products**



Discuss

- Which of the following is true about the possible effect of adding new programmers to a software project?
 - A. Production will generally be sped up because new programmers will generally bring bright new implementation ideas to a project.
 - B. Production will generally be sped up because of the decrease in pressure on the programmers already working on the project.
 - C. Production will generally be slowed down because of the need for training and additional coordination.
 - D. Production will generally be sped up because programmers are generally most productive when they first start on a project.



Roles in SW Organization

- **What is your goal, a business consultant / architect / analyst / designer / programmer / SQA person / product manager, boss, or others?**

