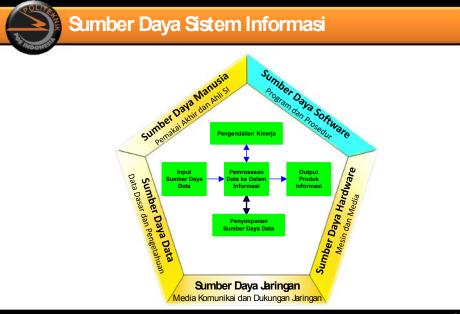
Manajemen Sistem Informasi

Minggu ke 06



MANAJEMEN...

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Manajemen Sistem Info



POKOK BAHASAN

Mengelola Sumber Daya Perangkat Lunak (1)

Tujuan Instruksional Khusus

- 1. Jenis Perangkat Lunak
- 2. Perangkat Lunak Aplikasi Umum
- 3. Perangkat Lunak Aplikasi Khusus

Deskripsi Singkat

Pertemuan ini diharapkan agar Mahasiswa mempunyai pengetahuan dasar tentang berbagai sistem aplikasi (perangkat lunak) yang harus dikelola dalam sebuah organisasi / perusahaan

Rahan Racaan

- 1. Discovering Computer 2011, Gary B. Shelly and Misty E. Vermaat, Course Technology, Cengage Learning
- Sistem Informasi Manajemen, Mengelola Perusahaan Digital, Edisi 8, Kenneth C Laudon, Jane P. Laudon, Penerbit Andi Yogyakarta, 2005
- 3. Pengantar Sistem Informasi Edisi 12, James O Brien, PENERBIT SALEMBA EMPAT JAKARTA



Software Resources

- All information processing instructions including programs and procedures
- System software, application software and procedures

- 4 -

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Bead Bar Software Requirements

- Buy or hire a programmer?
- Software to manage employees and inventory in studios
- Easy to use
- Contact management and presentation software
- Tax software and office suite, including spreadsheet
- Digital picture editing
- Software will need to be maintained and updated
- Employee benefits







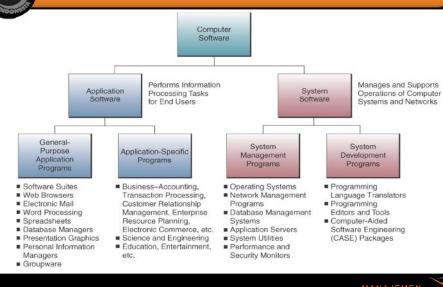


The Major Types of Software

- Software program: Series of statements or instructions to the computer
- System software: Generalized programs, manages computer's resources
- Application software: Programs written to perform functions specified by end users



Types of Application & System Software





Types of Application & System Software

System software serves as the interface between the user, the application software, and the computer's hardware



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Application Software

 Application software consists of programs designed to make users more productive and/or assist with personal tasks

To make business activities more efficient

To assist with graphics and multimedia projects

To support home, personal, and educational tasks

To facilitate communications

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Application Software

- General Purpose
 - Programs that perform common information processing jobs for end users; e.g., word processing, spreadsheet
 - Also call productivity packages
- Custom Software
 - Software applications developed within an organization for use by that organization
- · Commercial Off-the-Shelf (COTS)
 - Many copies sold
 - Minimal changes beyond scheduled upgrades
 - Purchasers have no control over specifications, schedule, or evolution, and no access to source code or internal documentation
 - Product vendor retains the intellectual property rights of the software



Application Software

- Open-source Software
 - Developers collaborate on the development of an application using programming standards which allow anyone to contribute to the software
 - As each developer completes a project, the application code becomes available and free to anyone who wants it





Application Software

Four Categories of Application Software Graphics and Multimedia Home/Personal/Educational · Word Processing · Computer-Aided · Software Suite (for Personal Use) Spreadsheet Design (CAD) · Personal Finance Database · Desktop Publishing Legal · Presentation (for the Professional) Tax Preparation · Desktop Publishing · Note Taking Paint/Image Editing Personal Information (for the Professional) (for Personal Use) Manager (PIM) · Photo Editing (for the · Paint/Image Editing · Business Software for Phones Professional) (for Personal Use) · Business Software Suite · Video and Audio Editing · Photo Editing and Photo Management · Project Management (for the Professional) (for Personal Use) · Clip Art/Image Gallery · Multimedia Authoring Accounting · Document Management · Web Page Authoring Video and Audio Editing (for Personal Use) · Enterprise Computing · Home Design/Landscaping · Travel and Mapping · Reference and Educational • Web Browser • E-Mail • Instant Messaging . Text, Picture, Video Messaging · Chat Room RSS Aggregator · Blogging Newsgroup/Message Board · Video Conferencing



Business Application Software

- Function-Specific Application Software
 - Thousands of these packages support specific applications of end users
 - **Examples**: customer relationship management, enterprise resource planning, supply chain management, Web-enabled electronic commerce



Components of Top Software Suites

Programs	Microsoft Office	Lotus SmartSuite	Corel WordPerfect Office	Sun StarOffice
Word Processor	Word	WordPro	WordPerfect	Writer
Spreadsheet	Excel	1-2-3	Quattro Pro	Calc
Presentation Graphics	PowerPoint	Freelance	Presentations	Impress
Database Manager	Access	Approach	Paradox	Base
Personal Information Manager	Outlook	Organizer	Corel Central	Schedule











Software Suites, Integrated Packages

- Most widely used productivity packages are bundled together as software suites
- Advantages
 - Cost less than buying individual packages
 - All have similar GUI
 - Work well together
- Disadvantages
 - All features not used
 - Takes a lot of disk space (bloatware)



Integrated Packages

- Integrated packages combine the functions of several programs into one package
 - Eg., Microsoft Works, AppleWorks
- Advantages
 - Many functions for lower price
 - Uses less disk space
 - Frequently pre-installed on microcomputers
- Disadvantages
 - Limited functionality







Web Browsers

- Software applications that support navigation through the point-and-dick hyper-linked resources of the Web
- Becoming the universal platform from which end users launch...
 - Information searches
 - E-mail
 - Multimedia file transfer
 - Discussion groups
 - Other Internet-based applications







Search Engines

- Browsers are used to gain access to Internet search engines
 - Google, Ask Jeeves, Look Smart, Lycos, Overture, Yahoo!
- Using search engines to find information has become an indispensable part of Internet, intranet, and extranet applications



E-mail, Instant Messaging, and Weblogs

- E-mail
 - Software to communicate by sending and receiving messages and attachments via the Internet, intranet, or extranet
- Instant messaging (IM)
 - Receive electronic messages instantly
- Weblog or blog
 - A personal website in dated log format
 - Updated with new information about a subject or range of subjects





Word Processing/ Desktop Publishing

- Word Processing
 - Create, edit, revise, and print documents
 - Example: Microsoft Word, Lotus WordPro, Corel WordPerfect
- Desktop Publishing
 - Produce printed materials that look professionally published
 - Example: Adobe PageMaker. Microsoft Publisher. QuarkXPress









Bectronic Spreadsheets

- Used by virtually every business
 - Analysis, planning, modeling
- **Bectronic Spreadsheet**
 - Worksheet of rows and columns
 - Can be stored on local computer or on network
 - Requires designing format and developing the relationships (formulas)
 - Most help you develop charts and graphic displays of spreadsheet results
 - Supports what-if questions







Personal Information Managers

- Software for end user productivity and collaboration
 - Stores information about dients
 - Manages schedules, appointments, tasks
 - Most include ability to access the Web and provide e-mail capabilities
 - Some support team collaboration by sharing information with other PIM users
 - Example: Lotus Organizer, Microsoft Outlook



Address book

Notepad









Presentation Graphics

- Common presentation graphics packages...
 - Converts numeric data into graphics displays
 - Used to create multimedia presentations of graphics, photos, animation, and video clips
 - Eg., Microsoft PowerPoint, Lotus Freelance. Corel Presentations
 - Top packages can tailor files for transfer in HTMI format to websites





Groupware

- Software that helps workgroups collaborate on group assignments
 - E-mail, discussion groups, databases, video conferencing
 - Example: Lotus Notes, Novell GroupWise, Microsoft Exchange
 - Windows SharePoint Services and WebSphere both allow teams to create websites for information sharing and document collaboration



Software Alternatives

- Outsourcing development and maintenance of software
- Application service providers (ASPs)
 - Companies that own, operate, and maintain application software and computer system resources
 - Use the application for a fee over the Internet
 - Pay-as-you-go
 - Use expected to accelerate in the coming years







Software Licensing

- All COTS and ASP software is licensed
 - Involves the underlying...
 - Intellectual property rights
 - Copyright
 - Trademark
 - Trade secrets
 - Also involves traditional contract law, including Uniform Commercial Code (UCC)
- You don't buy software
 - You buy a license to use the software
 - Licensed to protect the vendor's property rights



Categories of Group Software

- System Management Programs
 - Manages the hardware, software, network, and data resources of computer systems
 - Example: operating systems, network manage-ment programs, database management systems, system utilities
- System Development Programs
 - Helps users develop IS programs and procedures and then prepare them for processing
 - Includes language translators and editors, CASE and programming tools





Interface Between End Users and Computer

