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Department of
COMPUTER SCIENCE AND ENGINEERING

[18UCSC503-SOFTWARE ENGINEERING]
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SOFTWARE TOOLS USED IN
HOME SERVICES BOOKING WEB APPLICATION

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1.Xampp Server

XAMPP is one of the widely used cross-platform web servers, which helps developers to create and test their programs on a local webserver. It was developed by the **Apache Friends**, and its native source code can be revised or modified by the audience. It consists of **Apache HTTP Server, MariaDB, and interpreter** for the different programming languages like PHP and Perl. It is available in 11 languages and supported by different platforms such as the IA-32 package of Windows & x64 package of macOS and Linux.

- XAMPP is an abbreviation where *X stands for Cross-Platform, A stands for Apache, M stands for MYSQL, and the Ps stand for PHP and Perl*, respectively. It is an open-source package of web solutions that includes Apache distribution for many servers and command-line executables along with modules such as Apache server, MariaDB, PHP, and Perl.
- XAMPP helps a local host or server to test its website and clients via computers and laptops before releasing it to the main server. It is a platform that furnishes a suitable environment to test and verify the working of projects based on Apache, Perl, MySQL database, and PHP through the system of the host itself.
- Among these technologies, Perl is a programming language used for web development, PHP is a backend scripting language, and MariaDB is the most vividly used database developed by MySQL. The detailed description of these components is given below.

Used Components of XAMPP

1. **Apache:** It is an HTTP a cross-platform web server. It is used worldwide for delivering web content. The server application has made free for installation and used for the community of developers under the aegis of Apache Software Foundation. The remote server of Apache delivers the requested files, images, and other documents to the user.
2. **PHP:** It is the backend scripting language primarily used for web development. PHP allows users to create dynamic websites and applications. It can be installed on every platform and supports a variety of database management systems. It was implemented using C language. PHP stands for **Hypertext Processor**. It is said to be derived from Personal Home Page tools, which explains its simplicity and functionality.
3. **phpMyAdmin:** It is a tool used for dealing with MariaDB. Its version 4.0.4 is currently being used in XAMPP. Administration of DBMS is its main role.
4. **XAMPP Control Panel:** It is a panel that helps to operate and regulate upon other components of the XAMPP. Version 3.2.1 is the most recent update. A detailed description of the control panel will be done in the next section of the tutorial.

XAMPP Format Support

XAMPP is supported in three file formats:

1. **EXE**- It is an extension used to denote executable files making it accessible to install because an executable file can run on a computer as any normal program.
2. **.7z - 7zip file**- This extension is used to denote compressed files that support multiple data compression and encryption algorithms. It is more favored by a formalist, although it requires working with more complex files.
3. **.ZIP**- This extension supports lossless compression of files. A Zipped file may contain multiple compressed files. The **Deflate algorithm** is mainly used for compression of files supported by this format. The .ZIP files are quite tricky to install as compared to .EXE

2.Draw.io

Designed by Seibert Media, draw.io is proprietary software for making diagrams and charts. The software lets you choose from an automatic layout function, or create a custom layout. They have a large selection of shapes and hundreds of visual elements to make your diagram or chart one-of-a-kind. The drag-and-drop feature makes it simple to create a great looking diagram or chart.
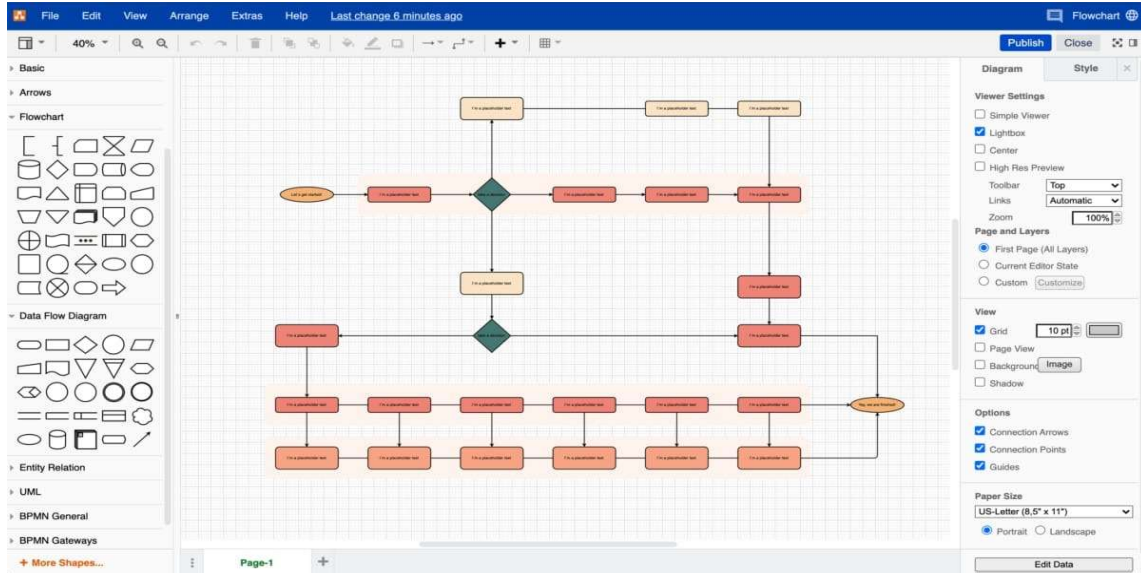
Draw.io Features

1. Draw.io offers a beginner-friendly environment when it comes to vector graphics processing, with the added advantage of not losing any quality when you re-open and edit a vector file. Vector graphics can make a big difference, especially considering how hard it is to under normal circumstance re-size a heavily compressed JPG file.

2. Vector graphics are a great way in which to create all sorts of different professional settings. You will be able to create building blueprints as well as design project workflows that can be shared with your team. This software package includes many different pre-made layout that you are able to pick from when working on a new design and you won't have to start your projects from scratch.

3. Basically, as long as you connect to Draw.io through your google account you will have access to the same collaborative tools that can be found to edit any other document in Google Dive. This will give you the ability to share files with colleagues so that you are able to work on the same file simultaneously. When you and another user are working on the same project you will be able to see their edits live.

4. When using Draw.io, you are able to drag-and-drop image files directly into your projects from your computer.

This software package support file types such as:

- SVG
- JPEG
- PNG
- VSDX
- Lucidchar
- Gliffy

3.Creately

1. Simple to use drag and drop tools to easily add UML shapes onto the canvas. Visualize actors, objects, dependencies, attributes, classes, packages and much more on a single, connected workspace.
2. Purpose designed diagram tools to enable smooth visualizing when designing systems.
3. Multi-perspective modeling with adaptive shapes that change according to the context they are placed in.
4. Create Easily Understandable Representations of Complex Systems.
5. Universal, full-text search to easily find specific nodes and information in large, complex UML diagrams.
6. Connected shape links to build navigation structures to easily represent how components in a system interact.
7. Advanced collaborator controls to streamline sharing, reviewing, and editing of UML diagrams.
8. Over 8 Million people and 1000s of teams already use Creately.
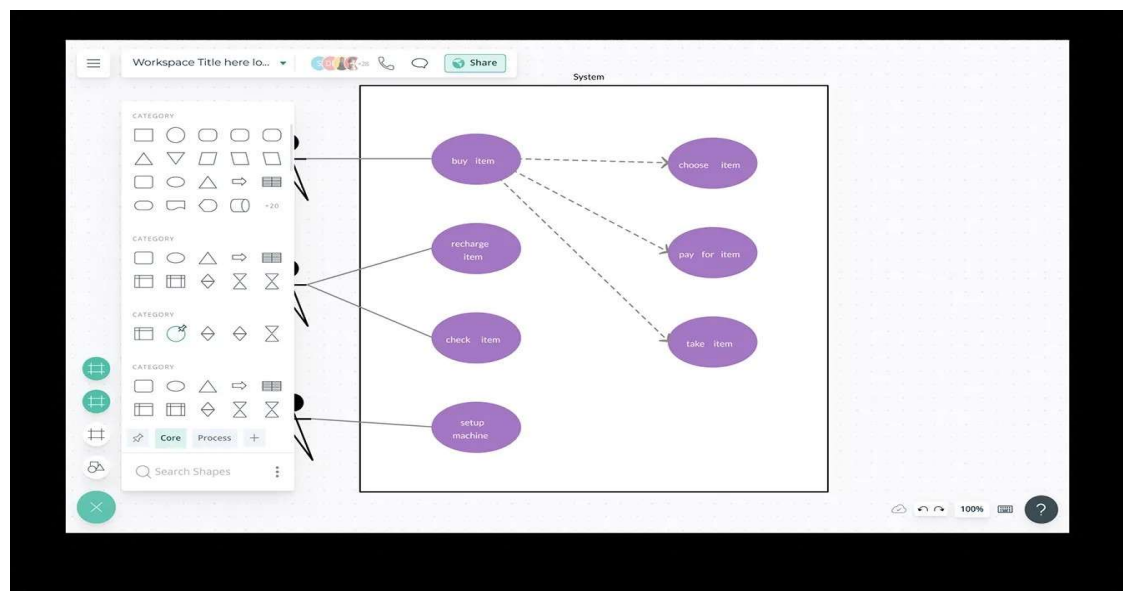
Features of Creately

Step 1. Free your data from tables

Step 2. Link data and notes to visual items

Step 3. Give data power to multi-perspective views

Step 4. Augment and extend your work apps

Step 5. Get things done with My Tasks and workflows

4.**Mysql**

Mysql is a relation database management system (RDBMS) development by Oracle that is based on structures query language(SQL).

A database is astructured collection of data.It may be anything from simpleShopping list to a picture gallery or a place to hold the vast amount of information in a corporate network.

MySQL is one of the most recognizable technologies in the modern big data ecosystem. Often called the most popular database and currently enjoying widespread, effective use regardless of industry, it's clear that anyone involved with enterprise data or general IT should at least aim for a basic familiarity of MySQL.

4 keys to understanding MySQL

MySQL is widely compatible

MySQL databases are relational

MySQL is open-source

MySQL is easy to use

How MySQL works

- MySQL is based on a client-server model. The core of MySQL is MySQL server, which handles all of the database instructions (or commands). MySQL server is available as a separate program for use in a client-server networked environment and as a library that can be embedded (or linked) into separate applications.

- MySQL operates along with several utility programs which support the administration of MySQL databases. Commands are sent to MySQLServer via the MySQL client, which is installed on a computer.

Other GUI tools

- Adminer
- Database Workbench
- DBeaver
- DBEdit
- HeidiSQL
- LibreOffice Base
- Navicat
- OpenOffice.org Base
- phpMyAdmin

5.Dreamweaver

Adobe Dreamweaver Tutorial

Adobe Dreamweaver is a software for designing web pages. These HTML web pages are fully featured. What You See Is What You Get interface for creating and editing the web pages. The Adobe Dreamweaver software supports many markup languages like HTML, XML, CSS, and JavaScript.

Features of Adobe Dreamweaver

1. Fast, flexible coding.
2. Setup to site up in fewer steps.
3. Dynamic display on every device.

Below are some of the latest updates

1. Multimonitor support for Windows
2. CEF integration
3. Redesigned, modern UI
4. Git support

Dreamweaver supports syntax highlighting for the following languages:

- ActionScript
- Active Server Pages (ASP).
- C#
- Cascading Style Sheets (CSS)
- ColdFusion
- EDML
- Extensible HyperText Markup Language (XHTML)
- Extensible Markup Language (XML)
- Extensible Stylesheet Language Transformations (XSLT)
- HyperText Markup Language (HTML)
- Java
- JavaScript
- PHP
- Visual Basic (VB)
- Visual Basic Script Edition (VBScript)
- Wireless Markup Language (WML)

6. Apache Server

Apache is free and open-source software of web server that is used by approx 40% of websites all over the world. Apache HTTP Server is its official name. It is developed and maintained by the Apache Software Foundation. Apache permits the owners of the websites for serving content over the web. It is the reason why it is known as a "web server."

Working of Apache

Apache is not any physical server; it is software that executes on the server. However, we define it as a web server. Its objective is to build a connection among the website visitor browsers (Safari, Google Chrome, Firefox, etc.) and the server. Apache can be defined as cross-platform software, so it can work on Windows servers and UNIX.

When any visitor wishes for loading a page on our website, the homepage, for instance, or our "About Us" page, the visitor's browser will send a request on our server. Apache will return a response along with each requested file (images, files, etc.). The client and server communicate by HTTP protocol, and Apache is liable for secure and smooth communication among t both the machines.

A more detailed list of features is provided below:

- Loadable Dynamic Modules
- Multiple Request Processing modes (MPMs) including Event-based/A sync, Threaded and Prefork.
- Highly scalable (easily handles more than 10,000 simultaneous connections)
- Handling of static files, index files, auto-indexing and content negotiation
- Multiple load balancing mechanisms
- Custom logging with rotation
- Concurrent connection limiting
- Request processing rate limiting