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Laboratory Report

Experiment No - 1

Batch -

Date of Experiment:_____ Date of Submission: _____

Title: Sketch out and analyze architecture of Moodle cloud portal and moodle cloud site and create different entities dynamically.

Evaluation

1) Attendance [2] ----------

2) Lab Performance [2] ----------

3) Oral [1] ----------

Overall Marks [5] ----------

Subject Incharge

Experiment No. 1

TITLE: Sketch out and analyze architecture of Moodle cloud portal and Moodle cloud site and create different entities dynamically

PREREQUISITE: Operating Systems

THEORY:

Introduction

Moodle recently announced a new, free Learning Management System (LMS) that offers easy setup. It's a great introduction to their open source LMS software.

The Free Moodle Cloud Overview:

- Not everyone is tech savvy and wants and easy way to create an LMS
- While many pieces of Moodle are easy, installing software on a server, managing it, upgrades and maintenance aren't for everyone
- This is geared towards small schools, companies or entrepreneurs that have small courses with a small audience with no budget
- They update the software for you to the latest version which allows all the safety security patches, features and flexibility available
- It's responsive out of the box
- It includes a free version of BigBlueButton their solution for full online conferencing, including video, audio, whiteboards and desktop sharing.

What Moodle Cloud Includes:

- 50 users maximum
- 200Mb disk space

Experiment No. 2

TITLE: Create a scenario in wordpress for Social Marketing, Search engine and Sharing Tools.

PREREQUISITE: Operating Systems, Computer Nertworks.

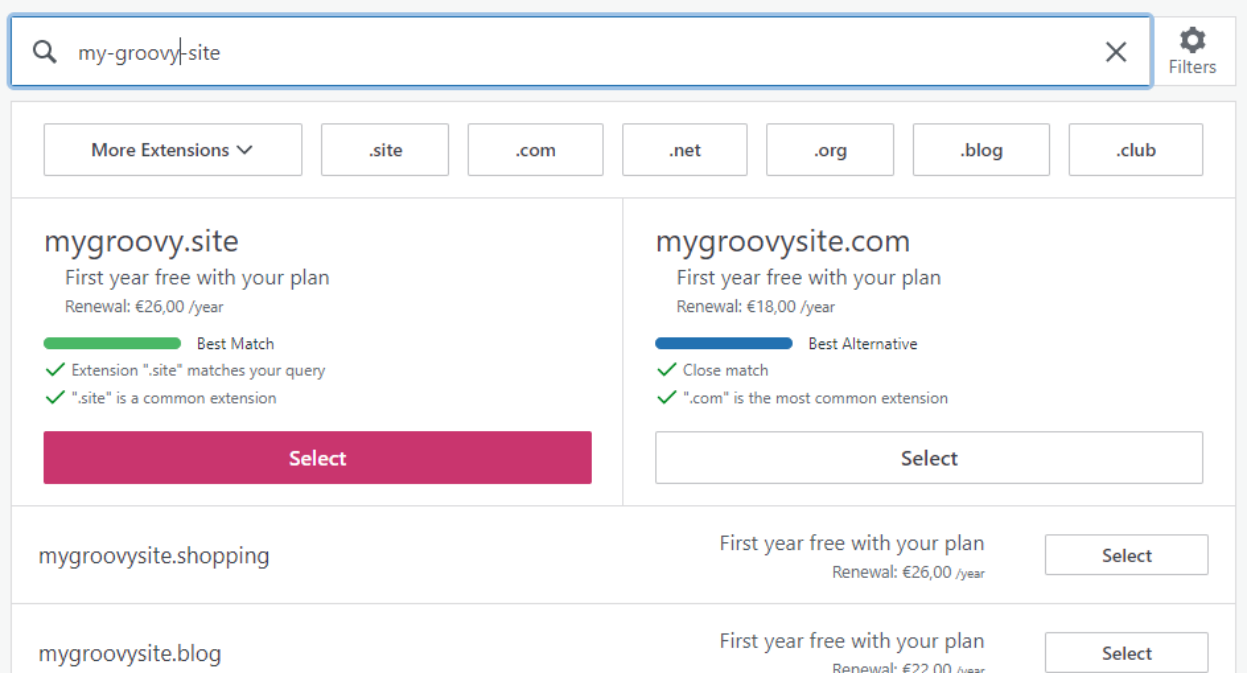
THEORY:

Whether you want to share your ideas, start a business, or run a store, you can do it all on WordPress.com.

Step 1: Choose Your Identity

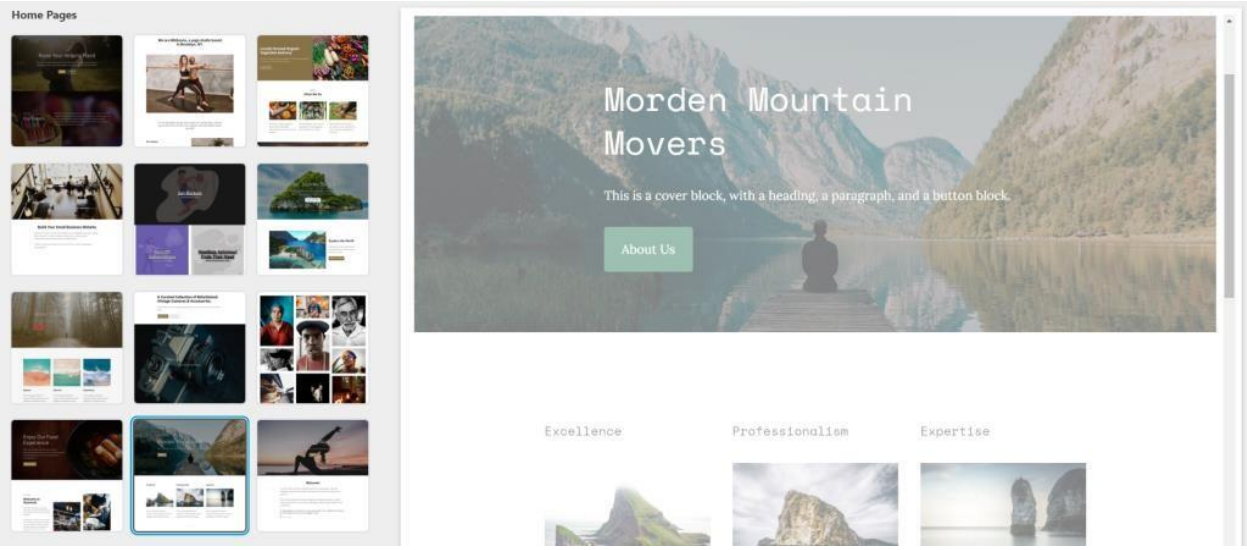
Choosing a name for your site is an important decision because it immediately tells visitors what your site is about. Once you decide on the perfect name, make it your Site Title by going to My Site → Manage → Settings.

By signing up, you already have a site address like yourgroovysite.wordpress.com but you can register your very own domain like yourgroovydomain.com. Your domain is free for the first year with any WordPress.com plan.



Step 2: Design Your Homepage

To make a great first impression, think about the most important elements you want people to see when they first visit your site. You can start with a blank page, or you can use one of our pre-built page layouts to create a beautiful homepage in seconds. You can load any of these gorgeous designs and then change, add, or remove any elements to make it your own.



Step 3: Create More Pages

Now it's time to add more pages. The most common pages you'll find on a website are an About

Laboratory Report

Experiment No - 3

Batch -

Date of Experiment:_____ Date of Submission: _____

Title: Working in Cloud9/Replit to demonstrate different language Evaluation

1) Attendance [2] ----------

2) Lab Performance [2] ----------

3) Oral [1] ----------

Overall Marks [5] ----------

Subject Incharge

Experiment No. 3

TITLE: Working in Cloud9/Replit to demonstrate different language Evaluation

PREREQUISITE: Operating Systems

THEORY:

Introduction

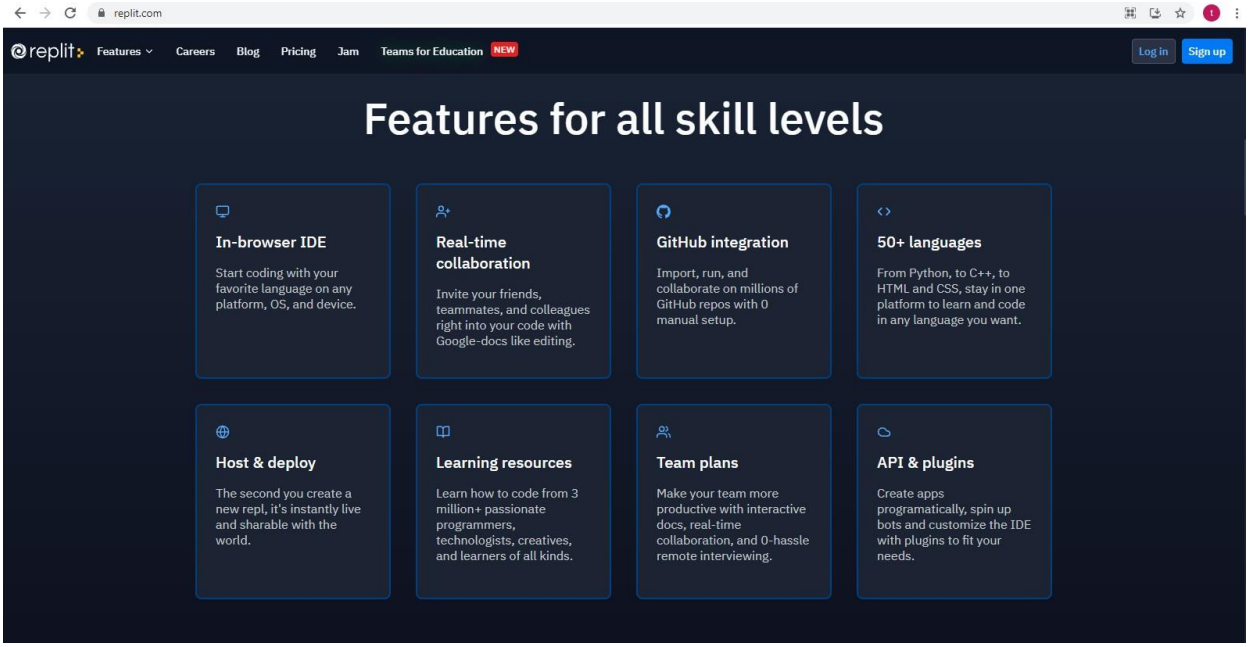
Replit is a coding platform that lets you write code and host apps. It also has many educational features built-in, making it great for teachers and learners too.
Every repl you create is a fully functional development and production environment. "Hosting from your editor" makes it easy to iterate quickly on your work, collaborate with others, and get feedback.

You can use Replit in different ways. It can replace some or all of your:

- Code editors (e.g. VS Code, Sublime Text, IntelliJ)
- Development environments (e.g. your operating system, and build tools like npm or pip)
- Cloud providers (e.g. AWS, Netlify)
- Team collaboration tools (e.g. Google Docs, GitHub)
- Teaching tools (e.g. Canva, Moodle, Blackboard)
- Learning tools (e.g. Codecademy, Coursera, Udemy, Udacity)

Writing Code: Replit for Software Developers:

- For software developers, Replit can be your cloud-based IDE.
- Having a cloud IDE offers several advantages. There's no setup – you can access your environment from any device, including your phone or tablet, and everything will just work.
- You can manage things like dependencies, build scripts, and environment variables in a single place and always be in sync. It's also easy to get help from others – every repl is multiplayer by default, so you can work with other developers in a Google Docs-like environment in real-time from anywhere on the globe.
- Each repl is its own Docker container running in a VM, so you can run shell commands and do nearly anything else that is possible from a standard Linux box.



Hosting Code: Replit for Startups and Indiehackers

You can host anything on Replit, from your basic personal website to a full web application for your startup.

Any project you create can be deployed instantly to a temporary domain so you can share with friends or colleagues and get feedback, or permanently to an 'Always On' repl with a custom domain for a production environment.

We also offer a full Key-Value store database, built-in authentication, and templates for many common web frameworks like Django or Ruby on Rails so you can ship your MVP in days instead of months.

Experiment No. 4

TITLE: Installation and configuration of virtual machine with guest OS

PREREQUISITE: Operating Systems

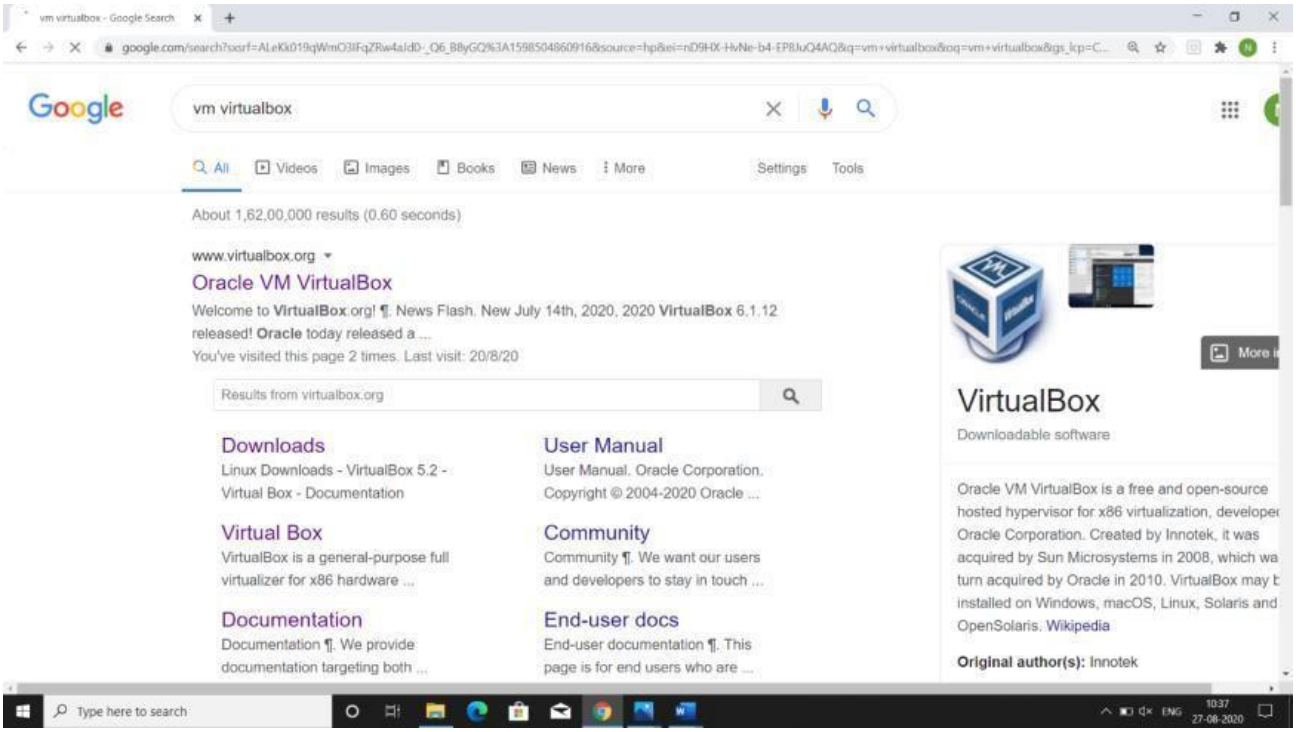
THEORY:

Introduction

In computing, a **virtual machine** (**VM**) is an emulation of a computer system. Virtual machines are based on computer architectures and provide functionality of a physical computer. Their implementations may involve specialized hardware, software, or a combination.

There are different kinds of virtual machines, each with different functions:

- **System virtual machines** (also termed full virtualization VMs) provide a substitute for a real machine. They provide functionality needed to execute entire operating systems. A hypervisor uses native execution to share and manage hardware, allowing for multiple environments which are isolated from one another, yet exist on the same physical machine. Modern hypervisors use hardware-assisted virtualization, virtualization-specific hardware, primarily from the host CPUs.
- **Process virtual machines** are designed to execute computer programs in a platform-independent environment.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Original author(s): Innotek
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VirtualBox is a powerful x86 and AMD64/Intel64 virtualization product for enterprise as well as home use. Not only is VirtualBox an extremely feature rich, high performance product for enterprise customers, it is also the only professional solution that is freely available as Open Source Software under the terms of the GNU General Public License (GPL) version 2. See "About VirtualBox" for an introduction.
Presently, VirtualBox runs on Windows, Linux, Macintosh, and Solaris hosts and supports a large number of guest operating systems including but not limited to Windows (NT 4.0, 2000, XP, Server 2003, Vista, Windows 7, Windows 8, Windows 10), DOS/Windows 3.x, Linux (2.4, 2.6, 3.x and 4.x), Solaris and OpenSolaris, OS/2, and OpenBSD.
VirtualBox is being actively developed with frequent releases and has an ever growing list of features, supported guest operating systems and platforms it runs on. VirtualBox is a community effort backed by a dedicated company: everyone is encouraged to contribute while Oracle ensures the product always meets professional quality criteria.
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News Flash
New July 14th, 2020, 2020 VirtualBox 6.1.12 released! Oracle today released a 6.1 maintenance release which improves stability and fixes regressions. See the Changelog for details.
New July 14th, 2020, 2020 VirtualBox 6.0.24 released! Oracle today released a 6.0 maintenance release which improves stability and fixes regressions. See the Changelog for details.
New July 14th, 2020 VirtualBox 5.2.44 released! Oracle today released a 5.2 maintenance release which improves stability and fixes regressions. See the Changelog for details.
New June 5th, 2020, 2020 VirtualBox 6.1.10 released! Oracle today released a 6.1 maintenance release which improves stability and fixes regressions. See the Changelog for details.
New May 15th, 2020, 2020 VirtualBox 6.1.8 released! Oracle today released a 6.1 maintenance release which improves stability and fixes regressions. See the Changelog for details.
New May 15th, 2020, 2020 VirtualBox 6.0.22 released! Oracle today released a 6.0 maintenance release which improves stability and fixes regressions. See the Changelog for details.
New May 15th, 2020 VirtualBox 5.2.42 released! Oracle today released a 5.2
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