UNIT 1: Choice of architectures and programming tools.

1. Meaning of full-stack development.

2. Difference between back-end and front-end developer.

3. Look for the most used programming languages in web.

   JavaScript, Python, Java, C++, C#, Swift, TypeScript, PHP...

4. Look for the most used databases.

   Oracle, MySQL, Microsoft SQL Server, MariaDB,MongoDB,Redis.

5. Frameworks for web development that use the following languages:

   ○ php:

   ○ Python:

   ○ Javascript:

   ○ Java:

6. What is a web server? Indicate some web servers and some web clients.

7. Indicate some other servers.

   Servidores de Gmail, Google Drive.

8. Explain with your own words the meaning of "Full Stack".

9. What are CRUD operations?

10. What is the purpose or the HTTP protocol?

11. Indicate the correspondence between the HTTP methods: POST, GET, PUT and DELETE and the CRUD operations.

12. What is an API?

13. How must be an API to be called a WEB API?

14. In which applications can we use a REST API?

15. What is the format of the data in a REST API?

16. Explain with your own words the difference between a library and a framework.

17. What is the lifecycle in a software development?

    Es un proceso de gestion del desenvolvemento y la implementacion de aplicaciones de software.

    Planificar → Desarrollo → Testeo → Lanzamiento → Soporte/Monitorización (busqueda de bugs) → posible muerte.

18. In a web application explain how a client server communication works.

19. What is Postman?

20. Indicate some relational databases.

21. Indicate some non relational databases.

22. Explain with your own words what is a ORM.

23. What is the purpose of a Cloud Platform?

24. Indicate some cloud platforms.

25. Meaning of CI/CD.

26. What's the difference between a Web Developer and a Web Designer?

27. What is XAMPP?

XAMPP es una distribución de Apache que incluye varios software libres. El nombre es un acrónimo compuesto por las iniciales de los programas que lo constituyen:
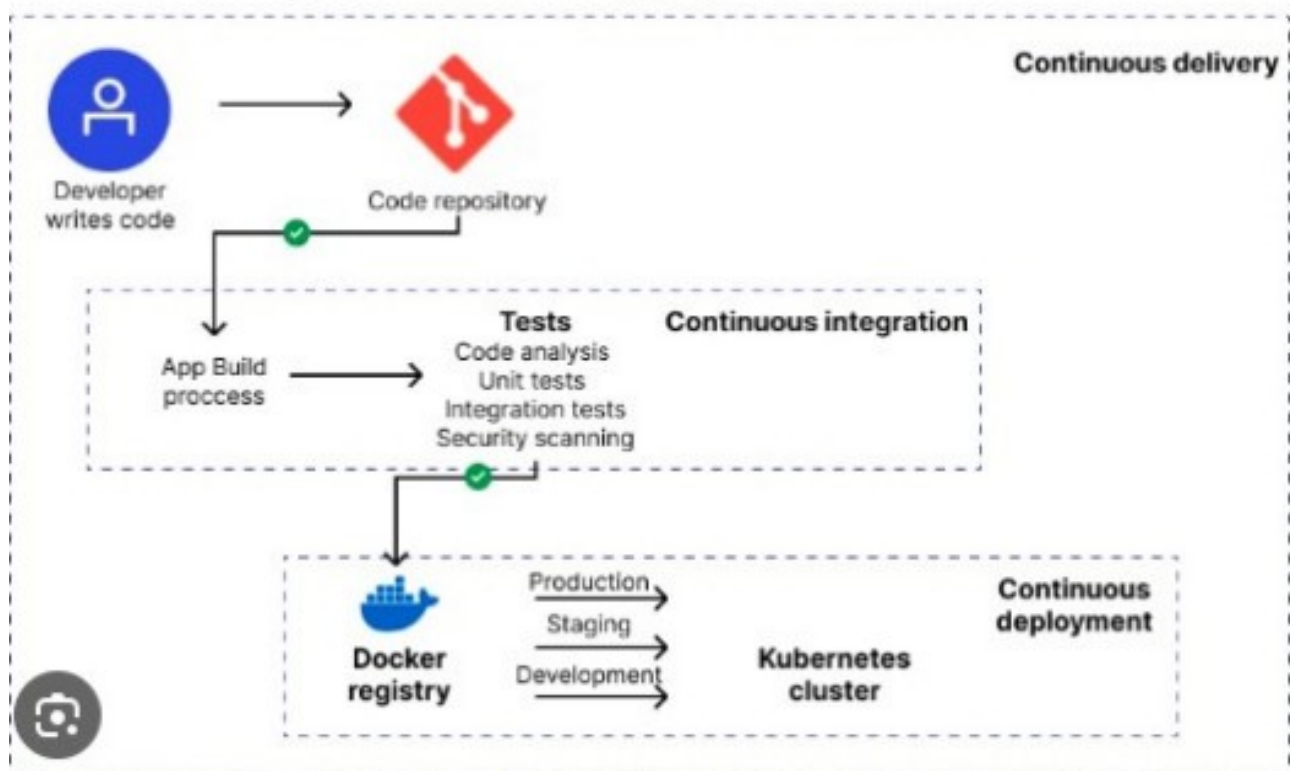
(cualquier sistema operativo), Apache, MariaDB/MySQL, PHP y Perl

28. What is LAMP?

29. Explain with your own words the steps that the software goes through using CI.

Continuous integration and delivery pipeline

30.What is the main purpose of CI/CD?

31.Explain the main difference between Heroku and AWS.

La principal diferencia es que Heroku es mucho mas sencillo de usar y eficiente mientras que no ofrece tantos servicios como AWS.

AWS es un sevicio de plataforma en la nube que ofrece gran variedad de productos. Es una inmensa colección de servicios en la nube para todas las necesidades. Heroku es mas sencilla y facil de usar que permite desplegar una aplicación web de forma muy sencilla.

32.Explain the difference between a programming language and a runtime environment.