|  |
| --- |
| Université des sciences et de la technologie Houari-Boumediene |
| Le Projet Final De TIC |
| (examen) |
|  |
| **Le groupe numéro :45 section B** |
| **03/01/2024** |



Le Sujet Abordée C’est : Information Communication Technologies (ICT)

***Information And Communication***

***Technologies Project***

***The* project content :**

1. *Introduction*
2. Website :

* *The definition of website,*
* *The role and the uses of website ,*
* *Work, Daily activity*
* *Explore how TIC is utilized in the context of website development.*
* *Example of website*

1. *-communication:*

* *the role of communication to transmit the information,*
* *Social media.*

1. Technologies:

* *Definition ,*
* *types of technology,*
* *Technologies related to tic.*
* *GitHub,*
* *Differences between Git and GitHub,*
* *A simple way to use GitHub for beginner,*
* *Same benefits of using GitHub.*
* *Microsoft Office,*
* *The most known Microsoft Submission.*

1. The impact of ICT in deferent domain
2. CONCLUSIONS

**1-Introduction**:

***Information Communication Technologies (ICT):*** ICT refers to the use of technology to store, transmit, and retrieve information. It includes things like computers, the internet, smartphones, and other devices that help us communicate and access information



**2-website:**

* **The definition of website*:***

A website is a collection of linked web pages (plus their associated resources) that share a unique domain name. Each web page of a given website provides explicit links—most of the time in the form of clickable portions of text—that allow the user to move from one page of

the website to another.

* **The role and the uses of website *:***

The website has a different roles because it has the ability to access in different links

So that help the user a lot in any domain like :

* ***Work:***

A website helps create brand awareness and showcasing your brand to prospective customers. It helps to establish your image by letting the audience know who you are and what you represent. A website provides reliable information to the consumers, which helps in setting your business apart from the competitors.

* ***Daily activity:***

They want Information. The internet is essentially an infinite virtual encyclopedia. It's where people go to find answer to their queries. Therefore, if they visit your website, it's highly probable that they are looking for information.

* **Explore how TIC is utilized in the context of website development.:**

Web developers are also responsible for creating the front-end of a website through the use of HTML, CSS and JavaScript, which creates the layout and style that the user sees and interacts with when using the site.

* ***example of website:***

1. ***Content Management Systems:*** Platforms that simplify the creation and management of digital content
2. ***E-commerce:*** technologies that support the creation and management on online stores
3. ***Design:*** You can describe the topic of the section here
4. ***Development Technologies :***HTML, CSS, and JavaScript language programming
5. ***Trends and Innovations:*** Trends shaping the future of web development
6. ***Web Security*** :Measures to secure data transmission and build trust with users.

**Percentage of population connected to the Internet in the world :**

**3-communication:**

* **the role of communication to transmit the information:**

Communication is usually understood as the transmission of information: a message is conveyed from a sender to a receiver using some medium, such as sound, written signs, bodily movements, or electricity.

* *The technologies achieved a big success in that domain so there is many way to communicate and one of those way is the social media:*
* **Social media:**

Social media refers to a variety of technologies that facilitate the sharing of ideas and information among their users. More than 4.7 billion people around the world use social media .:

* ***The types of social media****:*

1. Social Networks. Examples: Facebook, LinkedIn. ..
2. Bookmarking Sites. Examples: Pinterest, Flipboard, Diggs. ...
3. Social news. Examples: Digg. ...
4. Media Sharing. Examples: Pinterest, YouTube, Vimeo. ...
5. Microblogging. ...
6. Blog comments and forums. ..
7. Social Review Sites. ...
8. Community Blogs.

* *Some statistiques of the popular ones* :

|  |  |
| --- | --- |
| The social media application | The statistiques |
| Facebook | 2.96 billion users |
| Discord | 250M |
| G-mail | 2 billion |
| Instagram | 700M |
| tiktok | 1 billion |



**4-Technologies:**

* **Definition** :

Technology is the application of scientific knowledge for practical purposes or applications. Technology uses scientific principles, and applies them to change the environment in which humans live. Technology can also use scientific principles to advance industry or other human constructions.

* **types of technology:**

There are five main types of technology. They are:

mechanical technology, medical technology, communications technology, electronic technology, and industrial and manufacturing technologies.

1. ***Mechanical Technology*** Involves the design, development, and application of machinery and mechanical systems. – Examples:

- include engines, turbines, gears, and mechanical tools.

- Plays a crucial role in industries like automotive, aerospace, and manufacturing.

1. ***Medical Technology:*** Focuses on the development and use of technology in healthcare and medicine. – Examples:

- include medical devices, imaging systems, and telemedicine

. - Aims to improve diagnosis, treatment, and patient care.

1. ***Communications Technology:*** Deals with the transmission and exchange of information through various channels. – Examples:

- include telecommunication networks, wireless technologies, and internet protocols. - Enables real

-time communication, data sharing, and global connectivity.

1. ***Electronic Technology:*** Involves the design, development, and application of electronic devices and systems. – Examples:

- include computers, smartphones, sensors, and electronic circuits.

- Drives innovations in areas like consumer electronics, telecommunications, and automation.

1. ***Industrial and Manufacturing Technologies:*** Focuses on improving efficiency and productivity in industrial and manufacturing processes. – Examples:

- include robotics, automation systems, and advanced manufacturing techniques.

- Enhances production capabilities, quality control, and resource optimization.

* **Technologies related to tic:**

A wide variety of ICT tools are routinely used in schools, the workplace, and homes. Rapidly evolving learning tools such as computers, online media, telecommunications, and networked technologies are becoming powerful supports for communities of learning and practice. And this push the developers and scientist to create a lot of things

* from the most known are GitHub and Microsoft office :

1. **. GitHub :**

GitHub is a web-based version control and collaboration platform for software developers. Microsoft, the biggest single contributor to GitHub, acquired the platform for $7.5 billion in 2018. GitHub, which is delivered through a software as a service business model, was started in 2008. It was founded on Git, an open source [code](https://www.techtarget.com/whatis/definition/code) management system created by Linus Torvalds to make software builds faster

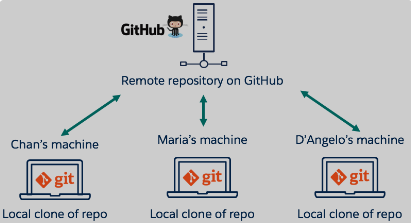
## Differences between Git and GitHub:

Git is a version control system that manages and keeps track of your code. GitHub, on the other hand, is a service that let you host, share, and manage your code files on the internet. GitHub uses Git underneath, and lets you manage your Git repositories or folders easily on its platform. So Git is the actual version control system and GitHub is the platform where you host your code.

* **A simple way to use GitHub for beginner :**

1. Sign up for a GitHub account at [github.com](http://github.com/).
2. Create a new repository by clicking on the "+" icon in the top-right corner.
3. Give your repository a name and description, and choose whether it should be public or private.
4. Clone the repository to your local machine using Git.
5. Add your files to the repository by copying them into the cloned directory.
6. Use Git commands like "git add" to stage your changes and "git commit" to save them.
7. Push your changes to GitHub using the "git push" command.
8. You can now view your code and collaborate with others on GitHub

* **Same benefits of using GitHub:**
* **Version control:** Git allows you to keep track of all changes made to your code, so you can revert to a previous version if needed. This is especially useful for collaboration and teamwork, as multiple developers can work on the same codebase and keep track of each other's changes.
* **Collaboration:** GitHub makes it easy for multiple developers to work together on a project. You can share your code with others, give them access to your repository, and keep track of issues and feature requests.
* **Backup and Disaster Recovery:** By using GitHub, you can ensure that your code is backed up in the cloud and easily accessible from anywhere. This can also help protect against data loss in case of hardware failure or other disasters.
* **Continuous Integration and Deployment:** By using GitHub Actions or other CI/CD tools, you can automate the process of building, testing, and deploying your code to a production environment. This saves time and reduces the chance of human error during deployment.
* **Community:** GitHub is a large and active community of developers, which makes it easy to find resources, share code, and collaborate with others. You can also search for and use open source packages and libraries created by others to save time and improve your development process.
* **Documentation:** GitHub provides an easy way to document your code and keep track of issues, bug reports, and feature requests. This can help ensure that everyone on your team is on the same page and that your codebase is well-maintained
* **Visibility:** By making your code publicly accessible on GitHub, you can increase visibility for your project and potentially attract new contributors, collaborators, and users.



[the link *that* help you to access to GitHub:](https://www.google.com/search?sca_esv=594619744&sxsrf=AM9HkKnRzqAC2eMdVujrhBXqqeE3nh6X0w:1703956921654&q=the+link+that+help+you+to+access+to+github&spell=1&sa=X&ved=2ahUKEwjey5uY1reDAxWqT6QEHW78DuwQkeECKAB6BAgIEAI) https://github.com/user/repo.git.

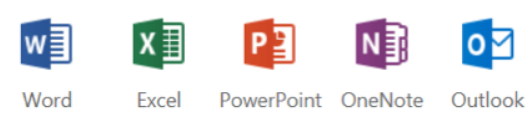
**II . 1. Microsoft Office :**

Microsoft is the largest vendor of computer software in the world. It is also a leading provider of cloud computing services, video games, computer and gaming hardware, search and other online services. One of the most influential sites that we use to : Project presentation. Submission CV

Microsoft's corporate headquarters is located in Redmond, Wash., and it has offices in more than 60 countries.

**2.The most known Microsoft Submission:**

* 1. Excel: Excel is a powerful spreadsheet program that allows you to organize, analyze, and manipulate data. It's great for creating budgets, tracking expenses, performing calculations, and creating charts and graphs.
  2. . Word: Word is a word processing program used for creating and editing documents. You can use it to write letters, reports, resumes, and more. It offers various formatting options, spell check, and collaboration features.
  3. . OneNote: OneNote is a digital note-taking application that helps you capture and organize your thoughts, ideas, and information. You can create different notebooks, sections, and pages to keep your notes well-structured. It's handy for taking meeting notes, making to-do lists, and saving web clippings.
  4. . PowerPoint: PowerPoint is a presentation software that allows you to create visually appealing slideshows. You can add text, images, charts, and animations to convey your message effectively. It's commonly used for business presentations, educational purposes, and sharing information in a visually engaging way.
  5. . Outlook: Outlook is an email and personal information management program. It lets you manage your emails, calendar, contacts, and tasks all in one place. You can send and receive emails, schedule meetings, set reminders, and stay organized with its various features

******

**The impact of ICT in deferent domain:**

 Information and Communication Technology (ICT) has had a profound impact on various domains, transforming communication, business, education, healthcare, and shaping modern economies and societies. In the realm of communication, ICT has revolutionized the way we connect and interact with one another. The advent of smartphones, social media platforms, and instant messaging apps has made communication faster, more accessible, and more convenient. Businesses have also experienced significant changes due to ICT. The digitization of processes, automation, and the emergence of e-commerce have streamlined operations, expanded market reach, and created new business models. Education has undergone a remarkable transformation as well. Online learning platforms, educational apps, and virtual classrooms have made education more accessible to people of all ages and backgrounds. Students can now access resources, engage in interactive learning experiences, and collaborate with peers from around the world. In the healthcare sector, ICT has improved patient care, remote monitoring, and telemedicine services. Electronic health records, medical imaging technologies, and wearable devices have enhanced diagnostics, treatment, and overall healthcare delivery. Furthermore, ICT has played a pivotal role in shaping modern economies and societies. It has fostered innovation, boosted productivity, and created new job opportunities. Additionally, ICT has facilitated the exchange of information, ideas, and cultures, promoting global connectivity and understanding. Overall, the impact of ICT on these domains has yielded remarkable results, driving progress, and shaping the development of science, while transforming economies and societies in profound ways.

**CONCLUSIONS:**

The ICT presentation underscores their transformative impact, revolutionizing global connectivity and shaping modern societies across diverse sectors: ICT emerges as a pivotal force driving innovation and efficiency in communication business, education, and healthcare ..

**Website used:**

<https://purpalyndigital.com/>

[www.techtarget.com/searchitoperation](http://www.techtarget.com/searchitoperation)

google and the artificial intelligence

The group number: 45 section B

by students :

Hamroun Sami Abdelmalek

Soualah Mohammed Saber

Baatout Mohamed Amine

Rouabah Dalila Chaima

Boumediene Noufel