



“GitHub SSH”

:: UNIDAD 2: Características del desarrollo de programas para dispositivos móviles

:: ACTIVIDAD COMPLEMENTARIA 3

MATERIA: :: PROGRAMACIÓN DE DISPOSITIVOS MÓVILES ::

CLAVE: 1668

LICENCIATURA EN INFORMÁTICA

PLAN 2012

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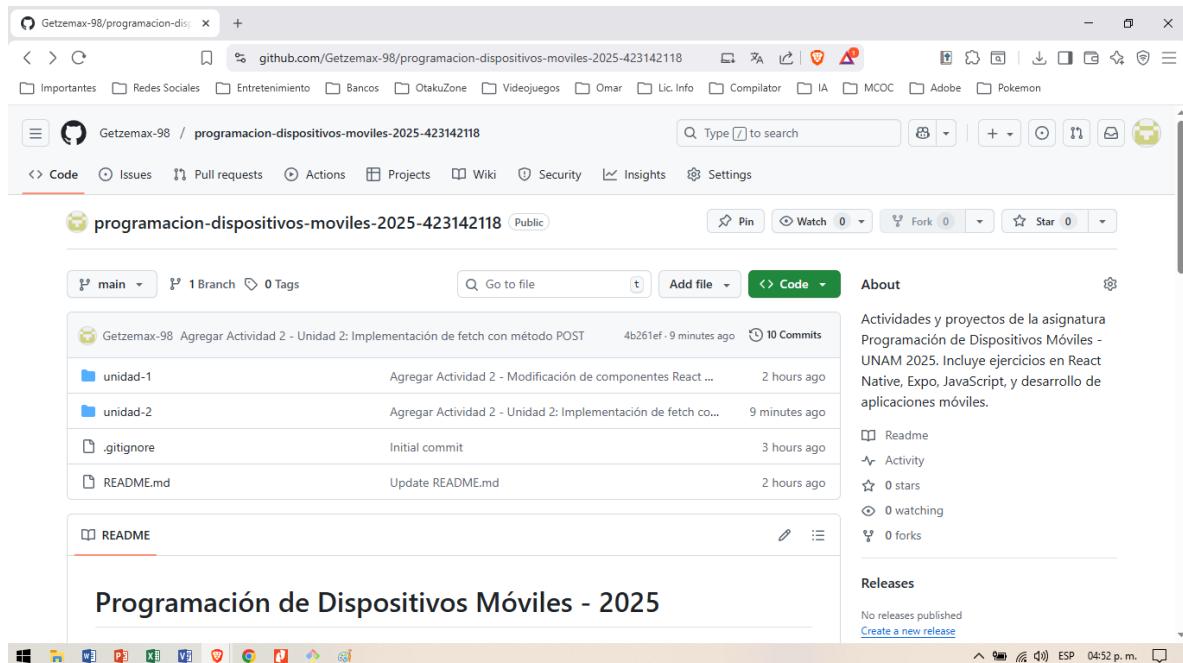
Grupo: 8691

ASESOR: MARTINEZ FERNANDEZ JUAN MANUEL

sábado, 1 de noviembre de 2025

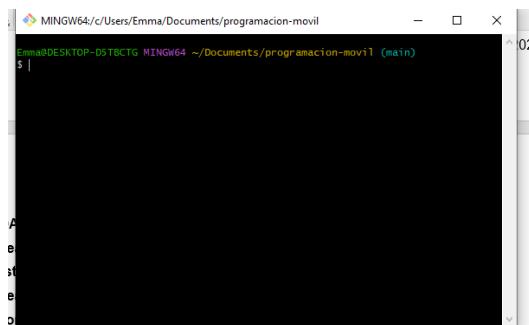
UNIDAD 2. Actividad Complementaria 3

a) Crea una cuenta en Github.



Creación de cuenta de GitHub

b) Instala Gitbash si usas Windows sin WSL.



c) Crea y configura una llave SSH para Github.

```
MINGW64:/c/Users/Emma/Documents/programacion-movil
Emma@DESKTOP-DSTBCTG MINGW64 ~/Documents/programacion-movil (main)
$ ^[[200-# 1. Generar llave SSH (en Git Bash)
bash: syntax error near unexpected token `['
# Presiona Enter 3 veces (usa valores por defecto)

# 2. Iniciar el agente SSH
eval "$(ssh-agent -s)"

# 3. Agregar la llave privada al agente
ssh-add ~/.ssh/id_ed25519

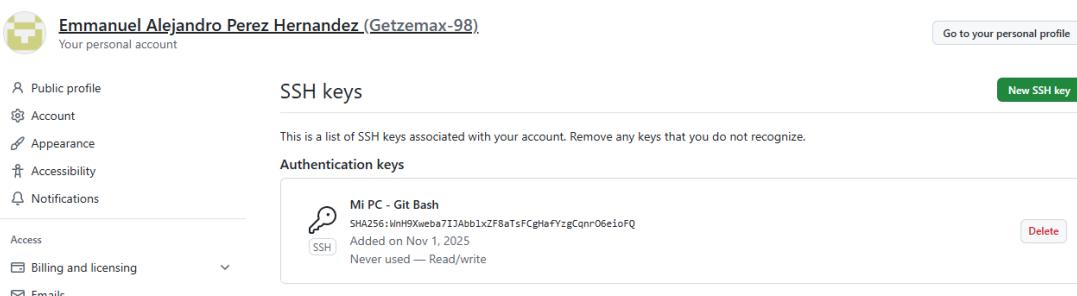
# 4. Copiar la llave pública al portapapeles
cat ~/.ssh/id_ed25519.pub
Emma@DESKTOP-DSTBCTG MINGW64 ~/Documents/programacion-movil (main)
$ ssh-keygen -t ed25519 -C "chemaloko98@gmail.com"
Generating public/private ed25519 key pair.
Enter file in which to save the key (/c/Users/Emma/.ssh/id_ed25519): Created directory '/c/Users/Emma/.ssh'.
Enter passphrase for "/c/Users/Emma/.ssh/id_ed25519" (empty for no passphrase):
Enter same passphrase again:
Passphrases do not match. Try again.
Enter passphrase for "/c/Users/Emma/.ssh/id_ed25519" (empty for no passphrase):
Enter same passphrase again:
Passphrases do not match. Try again.
Enter passphrase for "/c/Users/Emma/.ssh/id_ed25519" (empty for no passphrase):
Enter same passphrase again:
Passphrases do not match. Try again.
Enter passphrase for "/c/Users/Emma/.ssh/id_ed25519" (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/Emma/.ssh/id_ed25519
Your public key has been saved in /c/Users/Emma/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:wnH9Xweba7IJAbblxZF8aTsFCgHafYzgCqnr06eioFQ chemaloko98@gmail.com
The key's randomart image is:
+--[ED25519 256]--+
          .0.00.0 |
        .+0*00+.0 |
      o .*=Bo.0 |
    . .oBo.0.0+ |
  .E .S0o.+o |
  ..o.oo |
... . . . . |
|... . . . . |
|=++= o |
+---[SHA256]---+
0.00.0 |
. +0*00+.0 |
o .*=Bo.0 |
. .oBo.0.0+ |
.E .S0o.+o |
..o.oo |
... . . . . |
|=++= o |
+---[SHA256]---+
```

Se generó una llave SSH usando Git Bash

La llave pública se agregó a la cuenta de GitHub

Se verificó la conexión con ssh -T git@github.com

La autenticación fue exitosa, confirmando la configuración correcta



```
MINGW64:/c/Users/Emma
The key's randomart image is:
+--[ED25519 256]--+
          .0.00.0 |
        .+0*00+.0 |
      o .*=Bo.0 |
    . .oBo.0.0+ |
  .E .S0o.+o |
  ..o.oo |
... . . . . |
|... . . . . |
|=++= o |
+---[SHA256]---+
Emma@DESKTOP-DSTBCTG MINGW64 ~/
$ # 1. Iniciar el agente
eval "$(ssh-agent -s)"
Agent pid 2097
Emma@DESKTOP-DSTBCTG MINGW64 ~/
$ Agent pid 1234
bash: Agent: command not found
https://github.com/Getzemax-98
Emma@DESKTOP-DSTBCTG MINGW64 ~/Documents/programacion-movil (main)
$ ssh-add ~/.ssh/id_ed25519
Identity added: /c/Users/Emma/.ssh/id_ed25519 (chemaloko98@gmail.com)

Emma@DESKTOP-DSTBCTG MINGW64 ~/Documents/programacion-movil (main)
$ cat ~/.ssh/id_ed25519.pub
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIAaLgtEhA5Hl9DRtrntFjSeRJFfEmb38IF2HpDTmddI9
chemaloko98@gmail.com

Emma@DESKTOP-DSTBCTG MINGW64 ~/Documents/programacion-movil (main)
$ ssh-add ~/.ssh/id_ed25519
Identity added: /c/Users/Emma/.ssh/id_ed25519 (chemaloko98@gmail.com)

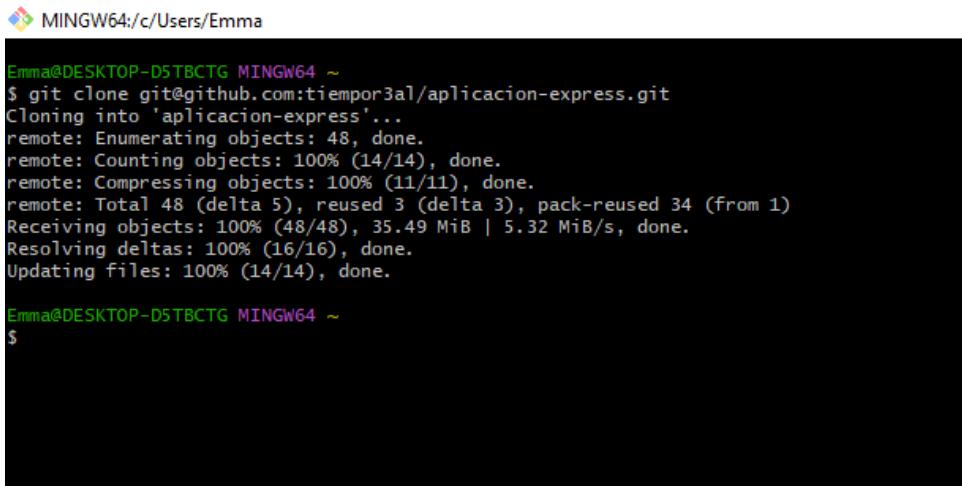
Emma@DESKTOP-DSTBCTG MINGW64 ~/Documents/programacion-movil (main)
$ cat ~/.ssh/id_ed25519.pub
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIAaLgtEhA5Hl9DRtrntFjSeRJFfEmb38IF2HpDTmddI9 chemaloko98@gmail.com

Emma@DESKTOP-DSTBCTG MINGW64 ~/Documents/programacion-movil (main)
$ ssh -T git@github.com
The authenticity of host 'github.com (140.82.114.4)' can't be established.
ED25519 key fingerprint is: SHA256:+DiY3wvvV6TuJJhbpZisF+2LDA0zPMsvHdkr4UvC0qu
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.
Hi Getzemax-98! You've successfully authenticated, but GitHub does not provide shell access.

Emma@DESKTOP-DSTBCTG MINGW64 ~/Documents/programacion-movil (main)
$
```



d) Clona el repositorio <https://github.com/tiempor3al/aplicacion-express>.

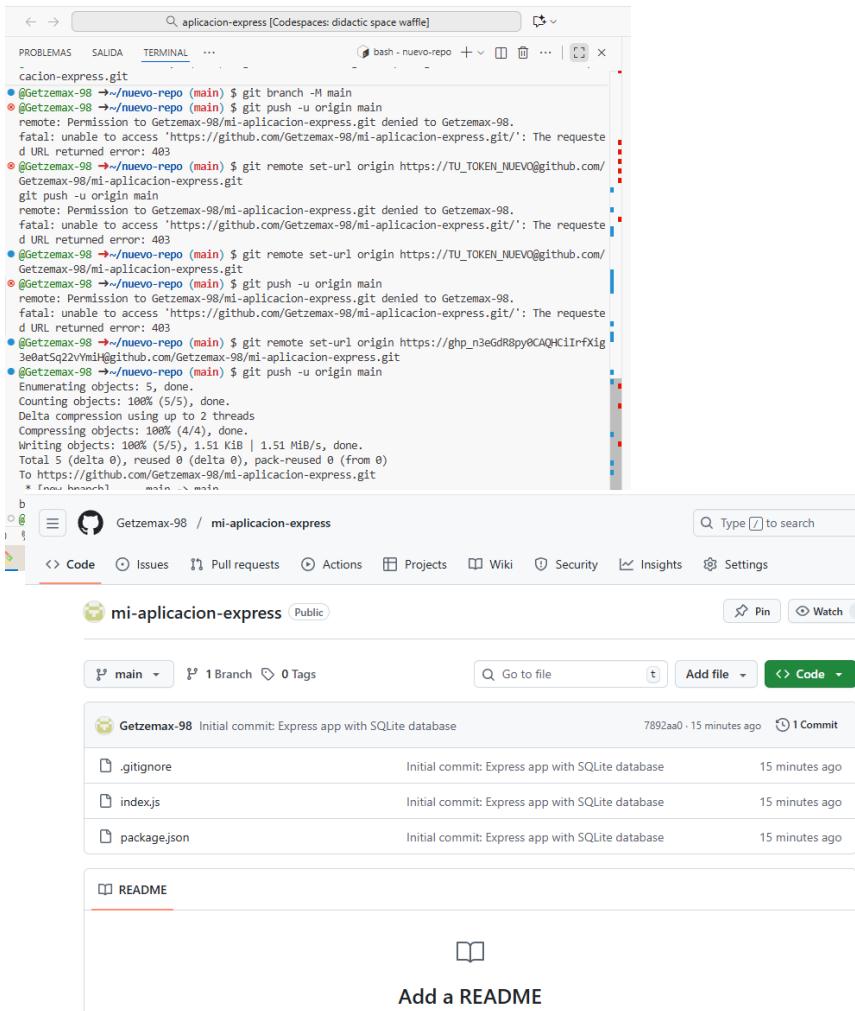


```
MINGW64:/c/Users/Emma
Emma@DESKTOP-D5TBCTG MINGW64 ~
$ git clone git@github.com:tiempor3al/aplicacion-express.git
Cloning into 'aplicacion-express'...
remote: Enumerating objects: 48, done.
remote: Counting objects: 100% (14/14), done.
remote: Compressing objects: 100% (11/11), done.
remote: Total 48 (delta 5), reused 3 (delta 3), pack-reused 34 (from 1)
Receiving objects: 100% (48/48), 35.49 MiB | 5.32 MiB/s, done.
Resolving deltas: 100% (16/16), done.
Updating files: 100% (14/14), done.

Emma@DESKTOP-D5TBCTG MINGW64 ~
$
```

Comando en git para clonar el repositorio dado por el plan de trabajo

e) Corre la aplicación usando GitHub CodeSpaces y verifica la ruta '/'.



The terminal session shows the following commands being run:

```
@Getzemax-98 ~/nuevo-repo (main) $ git branch -M main
@Getzemax-98 ~/nuevo-repo (main) $ git push -u origin main
remote: Permission to Getzemax-98/mi-aplicacion-express.git denied to Getzemax-98.
fatal: unable to access 'https://github.com/Getzemax-98/mi-aplicacion-express.git/': The requested URL returned error: 403
@Getzemax-98 ~/nuevo-repo (main) $ git remote set-url origin https://TU_TOKEN_NUEVO@github.com/Getzemax-98/mi-aplicacion-express.git
git push -u origin main
remote: Permission to Getzemax-98/mi-aplicacion-express.git denied to Getzemax-98.
fatal: unable to access 'https://github.com/Getzemax-98/mi-aplicacion-express.git/': The requested URL returned error: 403
@Getzemax-98 ~/nuevo-repo (main) $ git remote set-url origin https://TU_TOKEN_NUEVO@github.com/Getzemax-98/mi-aplicacion-express.git
@Getzemax-98 ~/nuevo-repo (main) $ git push -u origin main
remote: Permission to Getzemax-98/mi-aplicacion-express.git denied to Getzemax-98.
fatal: unable to access 'https://github.com/Getzemax-98/mi-aplicacion-express.git/': The requested URL returned error: 403
@Getzemax-98 ~/nuevo-repo (main) $ git remote set-url origin https://ghp_n3eGdR8py0CAQHCiIrfXig3e0atSg2vminJ@github.com/Getzemax-98/mi-aplicacion-express.git
@Getzemax-98 ~/nuevo-repo (main) $ git push -u origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 2 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (5/5), 1.51 KiB | 1.51 MiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Getzemax-98/mi-aplicacion-express.git
 * [new branch]      main > main
```

The GitHub repository page for 'mi-aplicacion-express' shows the main branch selected. The commit history lists the initial commit by 'Getzemax-98' with the message 'Initial commit: Express app with SQLite database'. The repository has 1 branch and 0 tags.



Screenshot of a browser showing a GitHub Codespace for "mi-aplicacion-express". The interface includes an Explorer sidebar, a central content area with a "Conozca los aspectos básicos" card, and a bottom navigation bar with tabs like PROBLEMAS, SALIDA, CONSOLA DE DEPURACIÓN, TERMINAL, and PUERTOS.

The PUERTOS tab shows port 3000 is open, connected to https://redesigned-space-potato-x5g7wqg4559p269gv-3000.app.github.dev. A "Ajustar la configuración" button is visible.

Below the browser window, there are two smaller screenshots:

- You are about to access a development port served by someone's codespace**: A warning message from GitHub stating "⚠ Only continue to visit the website if you trust whoever sent you the link". It also mentions "Personal information you disclose such as credit card numbers or passwords may be available to the developer of this site". A "Report unsafe page" button and a "Continue" button are present.
- Repository público: mi-aplicacion-express**: A screenshot of the GitHub repository page for "mi-aplicacion-express". It shows the repository details and a "Sin README inicial" (No README initial) note.
- Sin .gitignore inicial (ya teníamos el archivo)**: A screenshot of the GitHub repository page for "mi-aplicacion-express" showing the ".gitignore" file content.
- Sin licencia inicial**: A screenshot of the GitHub repository page for "mi-aplicacion-express" showing the "LICENSE" file content.
- CodeSpaces: redesi...**: A screenshot of the GitHub Codespace terminal showing the creation of a SQLite database named "base.sqlite3" and some basic SQL queries.



I. REFERENCIAS BIBLIOGRÁFICAS

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