

Beginner Project 2

To Do List App

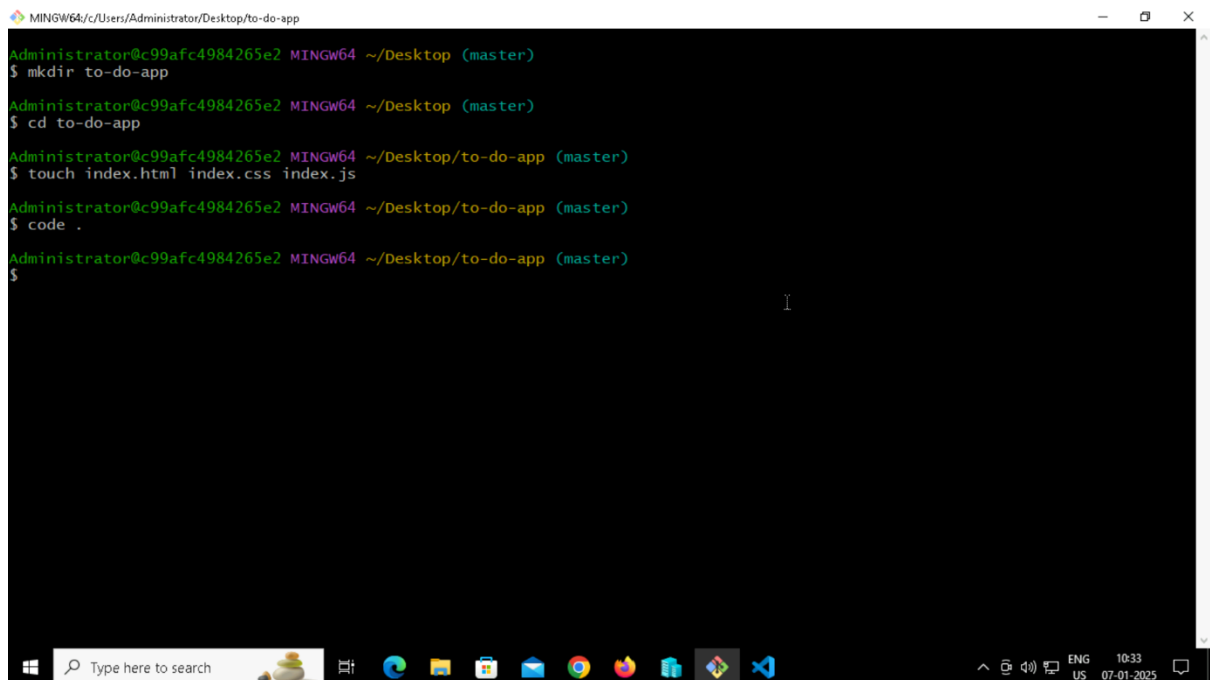
Objectives: Build a basic To Do List web app using HTML, CSS and Js

Skills: Learn how to organize your code into commits, and set up GitHub repository

GitHub concepts: Regularly commit your progress, create branches for features, and make pull requests

Process:

Step 1: Use the Git bash to create a folder To-Do-App and create the index.html and index.css and index.js files in the folder using the touch command.



```
Administrator@c99afc4984265e2 MINGW64 ~/Desktop (master)
$ mkdir to-do-app

Administrator@c99afc4984265e2 MINGW64 ~/Desktop (master)
$ cd to-do-app

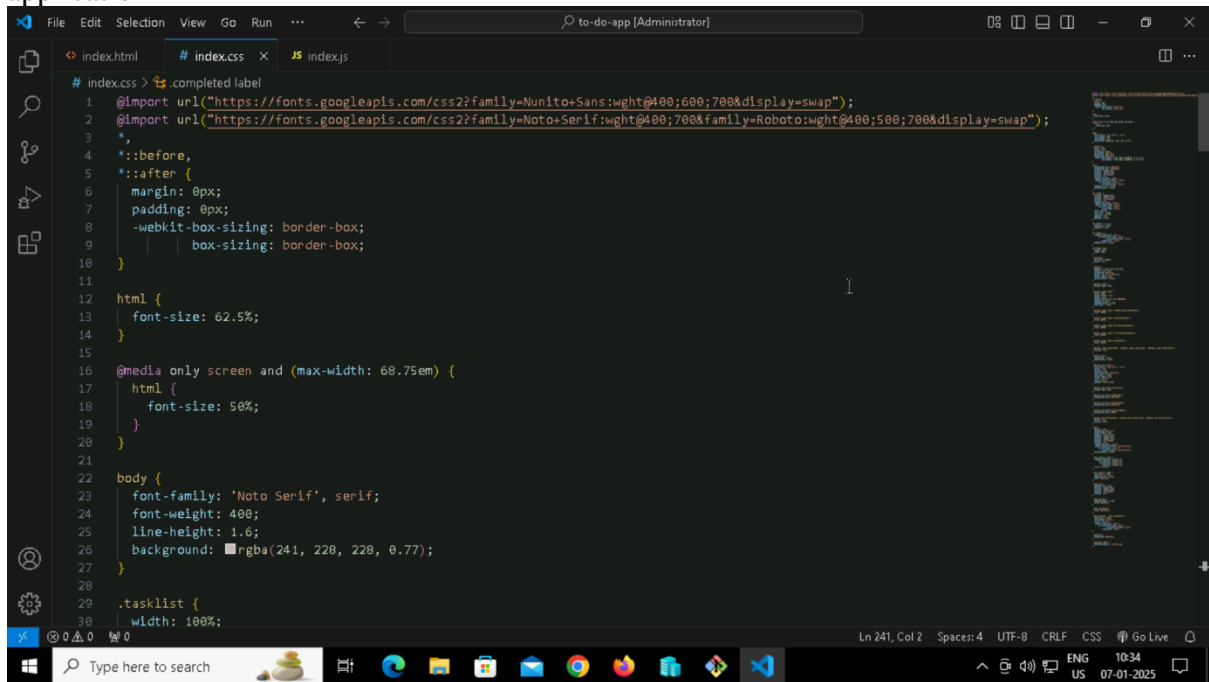
Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (master)
$ touch index.html index.css index.js

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (master)
$ code .

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (master)
$
```

The screenshot shows a Windows terminal window with a black background and green text. The window title is 'MINGW64/c/Users/Administrator/Desktop/to-do-app'. The terminal shows the following commands and their outputs: 1. 'mkdir to-do-app' is executed, creating a new directory. 2. 'cd to-do-app' is executed, changing the current directory to the newly created folder. 3. 'touch index.html index.css index.js' is executed, creating three empty files. 4. 'code .' is executed, opening the Visual Studio Code editor in the current directory. The terminal window is open on a Windows desktop, with the taskbar visible at the bottom showing various application icons and the system clock indicating 10:33 on 07-01-2025.

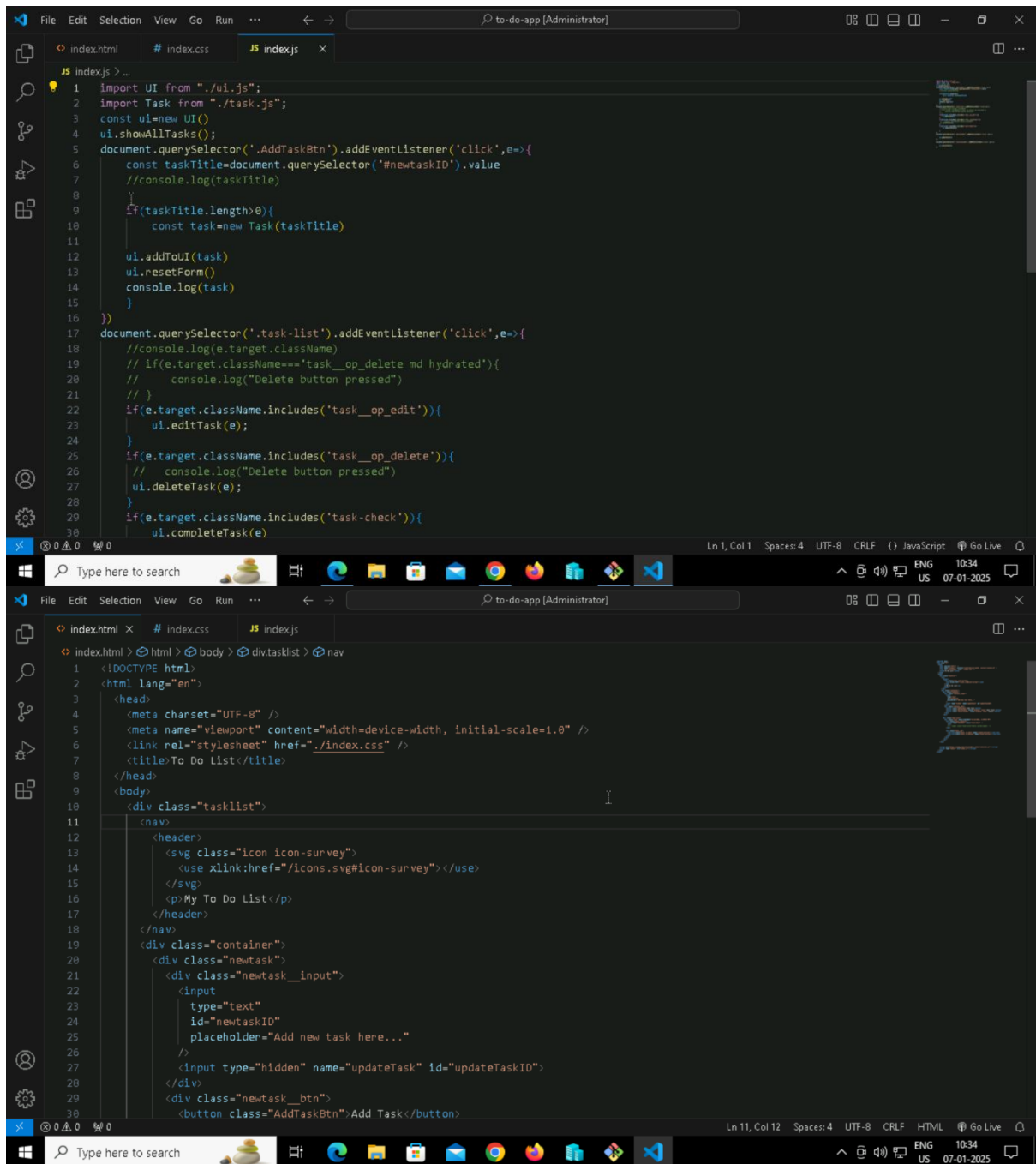
Step 2: Add the code for the HTML, CSS and JS files which forms the basis of the application



The screenshot shows a code editor with three tabs: index.html, index.css, and index.js. The index.css tab is active, displaying the following CSS code:

```
# index.css > .completed label
1 @import url("https://fonts.googleapis.com/css2?family=Nunito+Sans:wght@400;600;700&display=swap");
2 @import url("https://fonts.googleapis.com/css2?family=Noto+Serif:wght@400;700&family=Roboto:wght@400;500;700&display=swap");
3
4 *,
5 *::before,
6 *::after {
7   margin: 0px;
8   padding: 0px;
9   -webkit-box-sizing: border-box;
10  box-sizing: border-box;
11 }
12
13 html {
14   font-size: 62.5%;
15 }
16
17 @media only screen and (max-width: 68.75em) {
18   html {
19     font-size: 50%;
20   }
21 }
22
23 body {
24   font-family: 'Noto Serif', serif;
25   font-weight: 400;
26   line-height: 1.6;
27   background: #191919;
28 }
29
30 .tasklist {
31   width: 100%;
32 }
```

The editor's status bar at the bottom indicates the cursor is at Line 241, Column 2, with 4 spaces, UTF-8 encoding, CRLF line endings, and CSS mode. The Windows taskbar is visible at the bottom of the screen.



Step 3: Commit these changes to Git

```
Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (master)
$ git init
Initialized empty Git repository in C:/Users/Administrator/Desktop/to-do-app/.git/

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (master)
$ git add index.html index.css index.js

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (master)
$ git commit -m "initial commit"
[master (root-commit) 4ed34e3] initial commit
3 files changed, 340 insertions(+)
create mode 100644 index.css
create mode 100644 index.html
create mode 100644 index.js

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (master)
$ git branch -M main
```

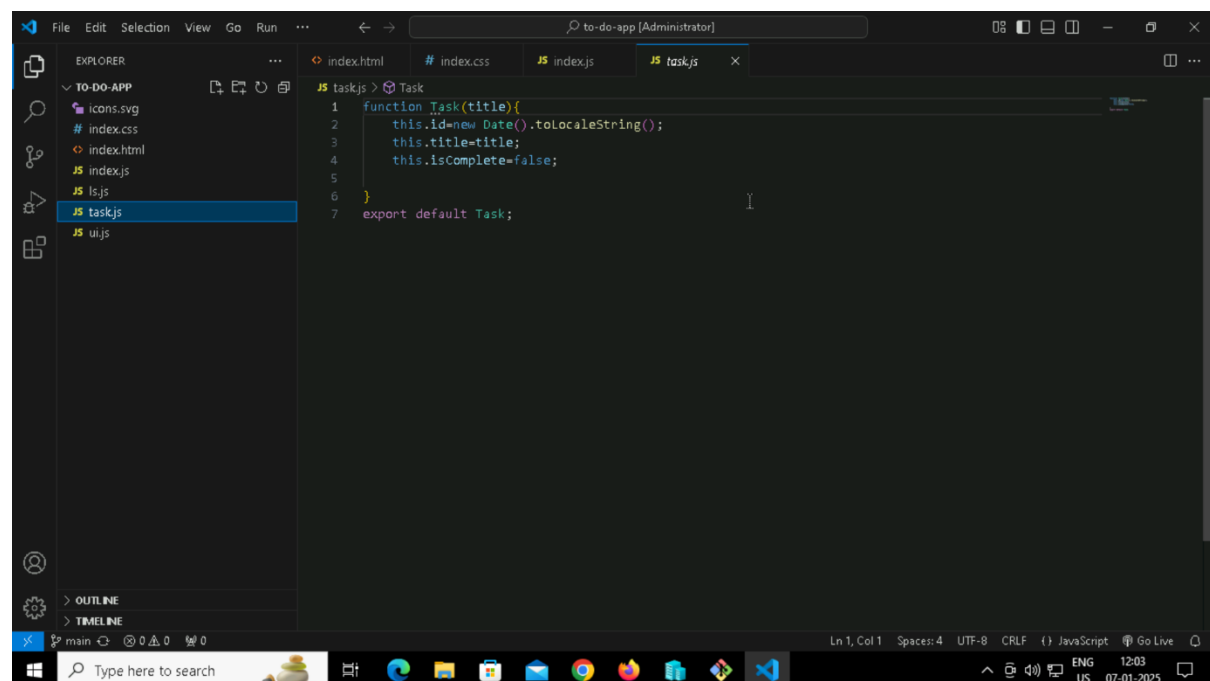
Step 4: Create a new file task.js to add Task functionality and add the changes to a new branch named 'task'

```
Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (main)
$ git branch task

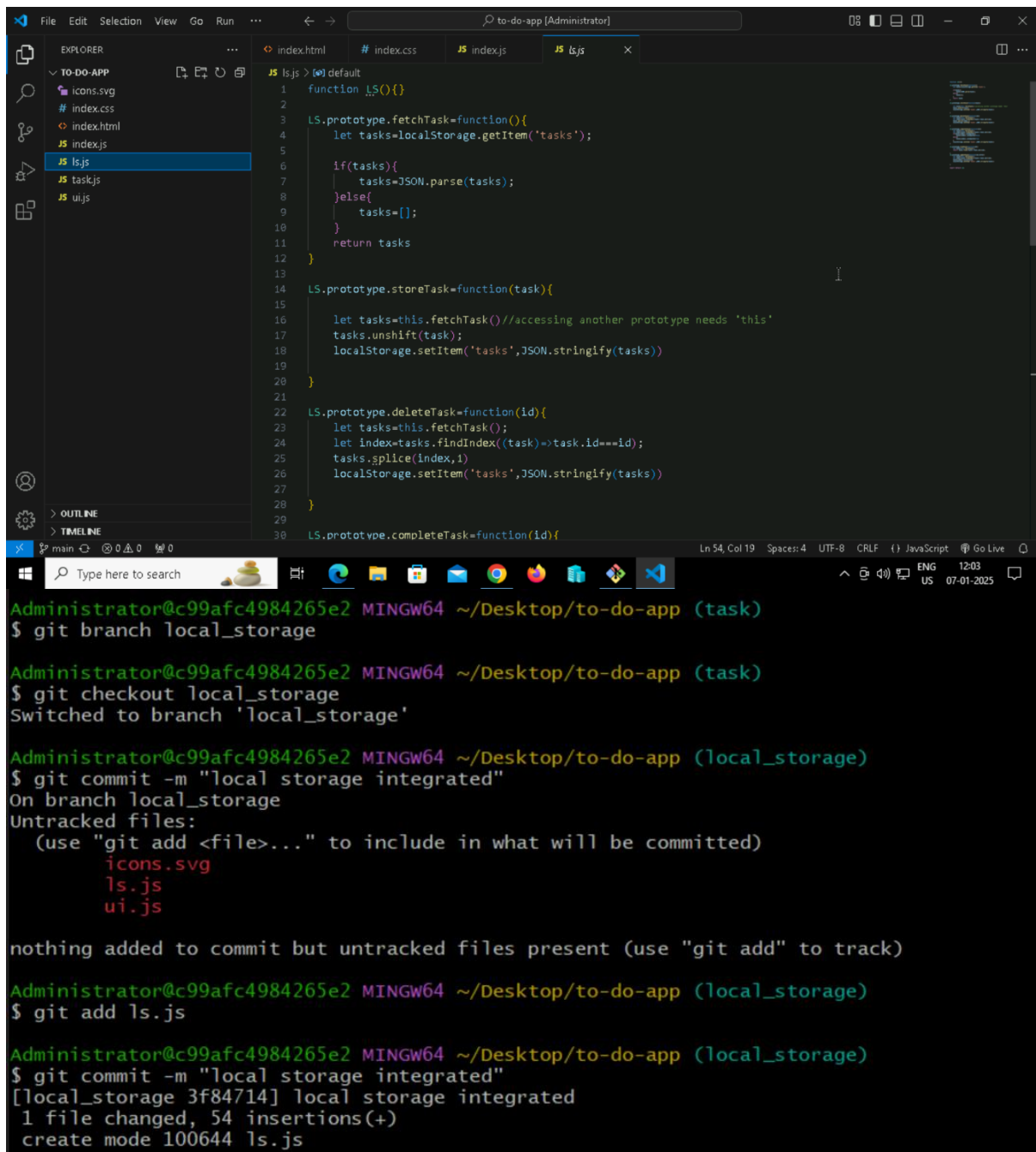
Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (main)
$ git checkout task
Switched to branch 'task'

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (task)
$ git add task.js

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (task)
$ git commit -m "added task feature"
[task 788bfac] added task feature
1 file changed, 7 insertions(+)
create mode 100644 task.js
```



Step 5: Create a new file `ls.js` and write the logic to configure the local storage access for our application and commit the changes to a new branch named 'local_storage'



The image shows a VS Code editor window with a file explorer on the left and a code editor in the center. The file explorer shows a project named 'TO-DO-APP' with files: `icons.svg`, `index.css`, `index.html`, `index.js`, `ls.js`, `task.js`, and `ui.js`. The code editor shows the content of `ls.js`:

```
1 function LS(){}
2
3 LS.prototype.fetchTask=function(){
4   let tasks=localStorage.getItem('tasks');
5
6   if(tasks){
7     tasks=JSON.parse(tasks);
8   }else{
9     tasks=[];
10  }
11  return tasks
12 }
13
14 LS.prototype.storeTask=function(task){
15
16   let tasks=this.fetchTask();//accessing another prototype needs 'this'
17   tasks.unshift(task);
18   localStorage.setItem('tasks',JSON.stringify(tasks))
19 }
20
21
22 LS.prototype.deleteTask=function(id){
23   let tasks=this.fetchTask();
24   let index=tasks.findIndex((task)=>task.id===id);
25   tasks.splice(index,1)
26   localStorage.setItem('tasks',JSON.stringify(tasks))
27 }
28
29
30 LS.prototype.completeTask=function(id){
```

Below the editor is a terminal window showing the following commands and output:

```
Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (task)
$ git branch local_storage

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (task)
$ git checkout local_storage
Switched to branch 'local_storage'

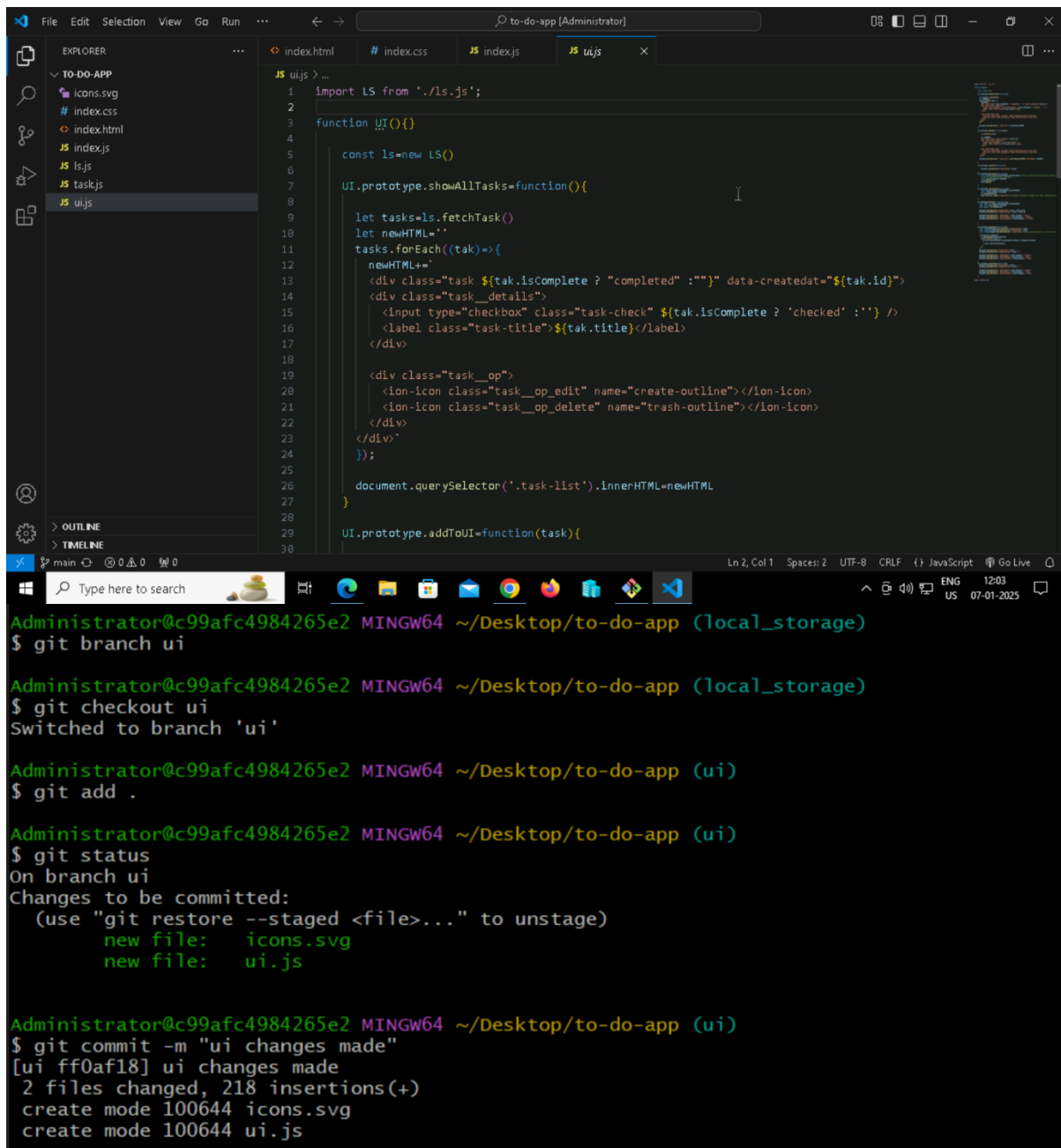
Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (local_storage)
$ git commit -m "local storage integrated"
On branch local_storage
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    icons.svg
    ls.js
    ui.js

nothing added to commit but untracked files present (use "git add" to track)

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (local_storage)
$ git add ls.js

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (local_storage)
$ git commit -m "local storage integrated"
[local_storage 3f84714] local storage integrated
1 file changed, 54 insertions(+)
create mode 100644 ls.js
```

Step 6: Similarly, create a new file ui.js to add the application logic and commit the changes made to a new branch named 'ui'



The image shows a Visual Studio Code editor window with a file explorer on the left and a code editor in the center. The file explorer shows a project named 'TO-DO-APP' with files: icons.svg, index.css, index.html, index.js, ls.js, tasks.js, and ui.js. The code editor shows the content of ui.js, which includes a function UI() and a prototype method showAllTasks(). The terminal window at the bottom shows the following commands and output:

```
Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (local_storage)
$ git branch ui

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (local_storage)
$ git checkout ui
Switched to branch 'ui'

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (ui)
$ git add .

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (ui)
$ git status
On branch ui
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   icons.svg
        new file:   ui.js

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (ui)
$ git commit -m "ui changes made"
[ui ff0af18] ui changes made
2 files changed, 218 insertions(+)
create mode 100644 icons.svg
create mode 100644 ui.js
```

Step 7: Add the remote and push the changes to the GitHub repository and switch to the 'task' branch when done.

```
Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (ui)
$ git checkout main
Switched to branch 'main'

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (main)
$ git remote add origin https://github.com/KPkm25/todo-app.git

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (main)
$ git push -u origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 2.47 KiB | 1.24 MiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/KPkm25/todo-app.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (main)
$ git checkout task
Switched to branch 'task'

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (task)
$ git branches
git: 'branches' is not a git command. See 'git --help'.

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (task)
$ git branch
  local_storage
  main
* task
  ui

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (task)
```

Step 8: Merge the branch 'task' with 'main' and push the changes to the repository.

```
Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (task)
$ git status
On branch task
nothing to commit, working tree clean

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (task)
$ git push origin main
Everything up-to-date

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (task)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (main)
$ git merge task
Updating 4ed34e3..788bfac
Fast-forward
 task.js | 7 ++++++
 1 file changed, 7 insertions(+)
 create mode 100644 task.js

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (main)
$ git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 378 bytes | 378.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/KPkm25/todo-app.git
 4ed34e3..788bfac main -> main

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (main)
$ git checkout ls
error: pathspec 'ls' did not match any file(s) known to git
```

Step 9: Switch to the local_storage branch and push the changes to local_storage

```
Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (main)
$ git checkout ls
error: pathspec 'ls' did not match any file(s) known to git

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (main)
$ git branch
* main
  task
  ui

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (main)
$ git checkout local_storage
git: 'checkout' is not a git command. See 'git --help'.

The most similar command is
  checkout

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (main)
$ git checkout local_storage
Switched to branch 'local_storage'

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (local_storage)
$ git push origin local_storage
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 629 bytes | 629.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'local_storage' on GitHub by visiting:
remote:   https://github.com/KPkm25/todo-app/pull/new/local_storage
remote:
To https://github.com/KPkm25/todo-app.git
```

Step 10: Go to GitHub and create a new pull request and merge the changes.

local storage integrated by KPkm25 x +

github.com/KPkm25/todo-app/pull/1

local storage integrated #1

[Open](#) KPkm25 wants to merge 1 commit into `main` from `local_storage`

Conversation 0 Commits 1 Checks 0 Files changed 1 +54 -0

KPkm25 commented now

No description provided.

local storage integrated 3f84714

Require approval from specific reviewers before merging
[Rulesets](#) ensure specific people approve pull requests before they're merged. [Add rule](#)

This branch has no conflicts with the base branch
Merging can be performed automatically.

[Merge pull request](#) You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

Reviewers
No reviews
Still in progress? [Convert to draft](#)

Assignees
No one—[assign yourself](#)

Labels
None yet

Projects
None yet

Milestone
No milestone

local storage integrated by KPkm25 x +

github.com/KPkm25/todo-app/pull/1

local storage integrated #1

[Merged](#) KPkm25 merged 1 commit into `main` from `local_storage` now

Conversation 0 Commits 1 Checks 0 Files changed 1 +54 -0

KPkm25 commented now

No description provided.

local storage integrated 3f84714

KPkm25 merged commit `f7a67d7` into `main` now [Revert](#)

Pull request successfully merged and closed
You're all set—the `local_storage` branch can be safely deleted. [Delete branch](#)

[Try the new merge experience](#)

Step 11: Now, move to the 'ui' branch and pull the changes from remote. After this, switch to 'main' and merge the 'ui' branch and push the changes.

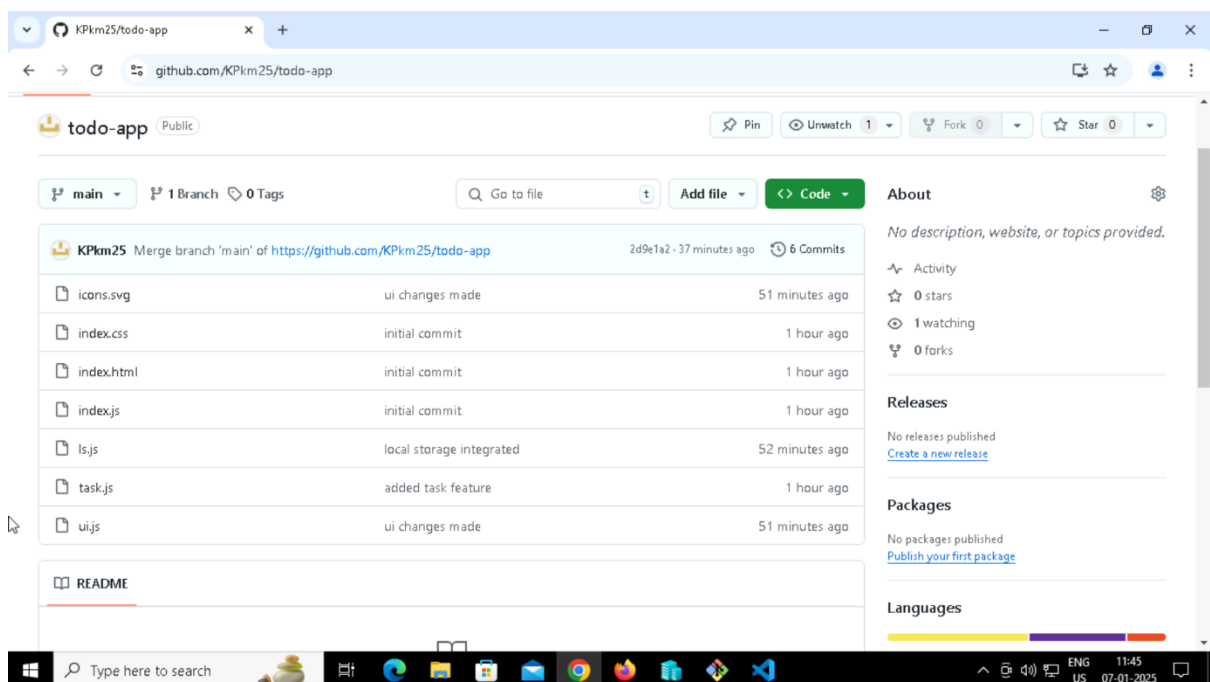
```
MINGW64/c/Users/Administrator/Desktop/to-do-app
remote: Enumerating objects: 1, done.
remote: Counting objects: 100% (1/1), done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (1/1), 912 bytes | 182.00 KiB/s, done.
From https://github.com/KPkm25/todo-app
* branch      main      -> FETCH_HEAD
   788bfac..f7a67d7  main  -> origin/main
Merge made by the 'ort' strategy.

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (main)
$ git merge ui
Already up to date.

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (main)
$ git push origin main
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 4 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 5.20 KiB | 2.60 MiB/s, done.
Total 5 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To https://github.com/KPkm25/todo-app.git
   f7a67d7..2d9e1a2  main -> main

Administrator@c99afc4984265e2 MINGW64 ~/Desktop/to-do-app (main)
$
```

Step 12: All the files have been uploaded to the GitHub repository.



Step 13: Deploy the website to make it accessible to the public.

