

PROJECT -2

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Beginner Project 2

To-Do List App (Frontend)

OBJECTIVE : Build a basic To-Do list web application using HTML, CSS, JavaScript

SKILLS : Learn how to organize your code into commits and set up a GitHub repository

GITHUB Concepts : Regularly commit your progress, create branches for features and make pull requests

Step 1 : Code Your To-Do List Application

- Created the HTML, CSS, and JavaScript files for your To-Do List web application.
- Save the files in appropriate folders (html, css, and js)

File Edit Selection View Go Run ...

index.html x # styles.css M JS scripts.js

EXPLORER ...

TODOLIST

.vscode

{ launch.json

index.html

JS scripts.js

styles.css M

index.html > html > head > link

```

1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Dynamic To-Do List App</title>
7   <link rel="stylesheet" href="styles.css">
8 </head>
9 <body>
10   <div class="container">
11     <h1>Dynamic To-Do List</h1>
12     <div class="input-container">
13       <input type="text" id="task-name" placeholder="Task Name">
14       <input type="date" id="due-date">
15       <select id="priority">
16         <option value="High">High Priority</option>
17         <option value="Medium">Medium Priority</option>
18         <option value="Low">Low Priority</option>

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

powerhell + - - - ^ x

```

error: src refspec main does not match any
error: failed to push some refs to 'https://github.com/aH0-ST5/todo.git'
PS C:\Users\Administrator\Desktop\maa\todo-list> git push origin main
To https://github.com/aH0-ST5/todo.git
 ! [rejected]        main -> main (non-fast-forward)
error: failed to push some refs to 'https://github.com/aH0-ST5/todo.git'
hint: Updates were rejected because the tip of your current branch is behind
hint: its remote counterpart. If you want to integrate the remote changes,
hint: use 'git pull' before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
PS C:\Users\Administrator\Desktop\maa\todo-list>

```

main x Launch Chrome against localhost (todo-list)

Ln 7, Col 34 Spaces: 4 UTF-8 CRLF HTML Go Live

Type here to search

HTML CODE (index.html):

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Dynamic To-Do List App</title>

  <link rel="stylesheet" href="css/styles.css">

</head>

<body>

  <div class="container">

    <h1>Dynamic To-Do List</h1>

    <div class="input-container">

      <input type="text" id="task-name" placeholder="Task Name">

      <input type="date" id="due-date">

      <select id="priority">

        <option value="High">High Priority</option>

        <option value="Medium">Medium Priority</option>

        <option value="Low">Low Priority</option>

      </select>

      <button id="add-btn">Add Task</button>

    </div>

    <ul id="todo-list"></ul>

  </div>

  <script src="js/script.js"></script>

</body>

</html>
```

CSS CODE (styles.css):

```
/* Basic Reset */
```

```
* {  
  margin: 0;  
  padding: 0;  
  box-sizing: border-box;  
}
```

```
/* Body Styling */
```

```
body {  
  font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;  
  background: linear-gradient(135deg, #ff9a9e, #fad0c4, #fad0c4);  
  height: 100vh;  
  display: flex;  
  justify-content: center;  
  align-items: center;  
  overflow: hidden;  
}
```

```
/* Container Styling */
```

```
.container {  
  background-color: rgba(255, 255, 255, 0.9);  
  padding: 30px 40px;  
  border-radius: 15px;  
  box-shadow: 0 10px 30px rgba(0, 0, 0, 0.1);  
  width: 90%;  
  max-width: 450px;  
  text-align: center;  
  overflow-y: auto;  
  max-height: 90vh;  
}
```

```
/* Title */
h1 {
  color: #333;
  margin-bottom: 20px;
  font-size: 2rem;
}

/* Input and Button */
.input-container {
  display: flex;
  flex-wrap: wrap;
  justify-content: space-between;
  gap: 10px;
  margin-bottom: 20px;
}

.input-container input, .input-container select, #add-btn {
  padding: 10px;
  border-radius: 5px;
  border: 1px solid #ddd;
  width: 100%;
}

.input-container input {
  flex: 2;
}

.input-container select {
  flex: 1;
}
```

```
#add-btn {  
    background-color: #28a745;  
    color: #fff;  
    cursor: pointer;  
    transition: background-color 0.3s;  
    border: none;  
}
```

```
#add-btn:hover {  
    background-color: #218838;  
}
```

```
/* To-Do List */
```

```
#todo-list {  
    list-style: none;  
    padding: 0;  
    margin-top: 20px;  
}
```

```
.todo-item {  
    background-color: #fff;  
    padding: 15px;  
    margin: 10px 0;  
    border-radius: 10px;  
    display: flex;  
    justify-content: space-between;  
    align-items: center;  
    box-shadow: 0 5px 15px rgba(0, 0, 0, 0.1);  
    transition: background-color 0.3s, transform 0.2s;  
}
```

```
.todo-item.completed {  
    background-color: #d4edda;  
    text-decoration: line-through;  
    color: #6c757d;  
}
```

```
.todo-item:hover {  
    transform: translateY(-3px);  
}
```

```
.delete-btn {  
    background-color: #dc3545;  
    color: #fff;  
    border: none;  
    border-radius: 5px;  
    padding: 5px 10px;  
    cursor: pointer;  
    transition: background-color 0.3s;  
}
```

```
.delete-btn:hover {  
    background-color: #c82333;  
}
```

/ Scrollbar Styling */*

```
.container::-webkit-scrollbar {  
    width: 10px;  
}
```

```
.container::-webkit-scrollbar-thumb {  
    background: #888;
```

```
border-radius: 5px;
}
```

```
.container::-webkit-scrollbar-thumb:hover {
  background: #555;
}
```

JavaScript (script.js):

```
document.getElementById('add-btn').addEventListener('click', addTask);
```

```
// Function to add a new task
```

```
function addTask() {
  const taskName = document.getElementById('task-name').value.trim();
  const dueDate = document.getElementById('due-date').value;
  const priority = document.getElementById('priority').value;

  if (taskName && dueDate) {
    const taskItem = createTaskElement(taskName, dueDate, priority);

    document.getElementById('todo-list').appendChild(taskItem);

    resetForm();
  } else {
    alert('Please fill in both the task name and the due date.');
```

```
// Function to create a task element
```

```
function createTaskElement(name, date, priority) {
  const li = document.createElement('li');
  li.className = 'todo-item';
```

```

li.innerHTML = `
    <span><strong>${name}</strong> - ${date} (${priority})</span>
    <button class="delete-btn">Delete</button>
`;

li.querySelector('span').addEventListener('click', () => {
    li.classList.toggle('completed');
});

li.querySelector('.delete-btn').addEventListener('click', () => {
    li.remove();
    saveTasks();
});

return li;
}

// Function to reset the form
function resetForm() {
    document.getElementById('task-name').value = "";
    document.getElementById('due-date').value = "";
    document.getElementById('priority').value = 'Medium';
}

// Save tasks to local storage before the page unloads
window.addEventListener('beforeunload', saveTasks);

// Load tasks from local storage when the page loads
window.addEventListener('load', loadTasks);

// Function to save tasks to local storage

```



```

function saveTasks() {
  const tasks = [];
  document.querySelectorAll('.todo-item').forEach(item => {
    tasks.push({
      text: item.querySelector('span').innerText,
      completed: item.classList.contains('completed')
    });
  });
  localStorage.setItem('tasks', JSON.stringify(tasks));
}

// Function to load tasks from local storage
function loadTasks() {
  const tasks = JSON.parse(localStorage.getItem('tasks')) || [];
  tasks.forEach(task => {
    const taskItem = createTaskElementFromStorage(task);
    document.getElementById('todo-list').appendChild(taskItem);
  });
}

// Function to create a task element from storage data
function createTaskElementFromStorage(task) {
  const [name, datePriority] = task.text.split(' - ');
  const taskItem = createTaskElement(name, date, priority);
  if (task.completed) {
    taskItem.classList.add('completed');
  }

  return taskItem;
}

```

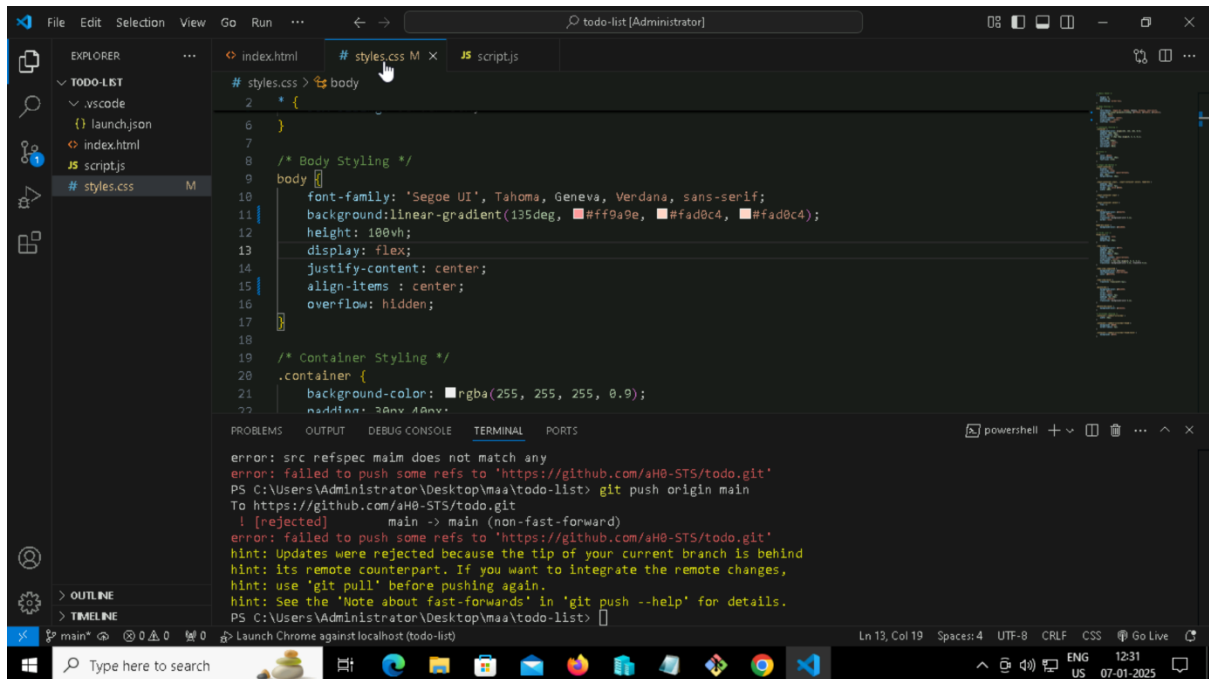
Original Background Gradient:

background: linear-gradient(135deg, #ff9a9e, #fad0c4, #fad0c4);

Updated Background Gradient:

Yellow

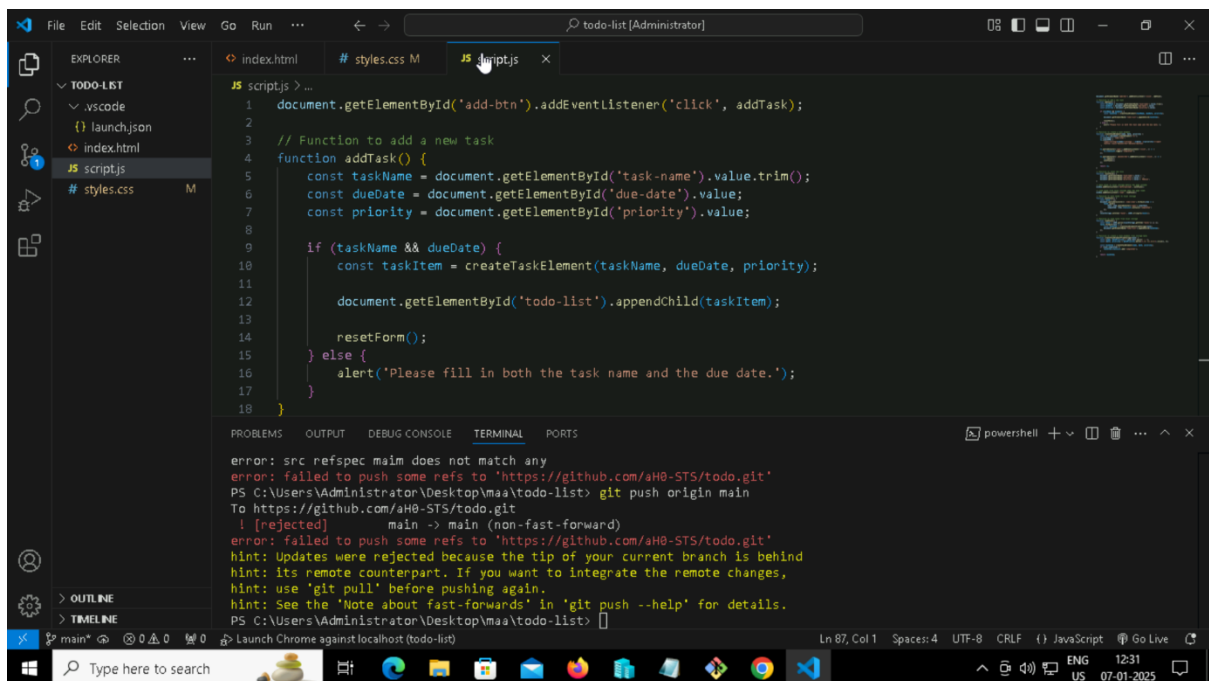
- For different branch creation



The screenshot shows the Visual Studio Code editor with the 'styles.css' file open. The CSS code defines the body and container styles. The background gradient is set to 'linear-gradient(135deg, #ff9a9e, #fad0c4, #fad0c4)'. The terminal at the bottom shows a 'git push' command being executed, which fails with a 'src refspec main does not match any' error.

```
# styles.css > body
2  * {
3    margin: 0;
4    padding: 0;
5  }
6
7
8  /* Body Styling */
9  body {
10   font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
11   background: linear-gradient(135deg, #ff9a9e, #fad0c4, #fad0c4);
12   height: 100vh;
13   display: flex;
14   justify-content: center;
15   align-items: center;
16   overflow: hidden;
17 }
18
19 /* Container Styling */
20 .container {
21   background-color: #f0f0f0;
22   padding: 20px;
23 }
```

```
error: src refspec main does not match any
error: failed to push some refs to 'https://github.com/aH0-ST5/todo.git'
PS C:\Users\Administrator\Desktop\maa\todo-list> git push origin main
To https://github.com/aH0-ST5/todo.git
 ! [rejected]        main -> main (non-fast-forward)
error: failed to push some refs to 'https://github.com/aH0-ST5/todo.git'
hint: Updates were rejected because the tip of your current branch is behind
hint: its remote counterpart. If you want to integrate the remote changes,
hint: use 'git pull' before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
PS C:\Users\Administrator\Desktop\maa\todo-list>
```



The screenshot shows the Visual Studio Code editor with the 'script.js' file open. The JavaScript code defines a function to add a new task to a todo list. The terminal at the bottom shows a 'git push' command being executed, which fails with a 'src refspec main does not match any' error.

```
# script.js > ...
1  document.getElementById('add-btn').addEventListener('click', addTask);
2
3  // Function to add a new task
4  function addTask() {
5    const taskName = document.getElementById('task-name').value.trim();
6    const dueDate = document.getElementById('due-date').value;
7    const priority = document.getElementById('priority').value;
8
9    if (taskName && dueDate) {
10     const taskItem = createTaskElement(taskName, dueDate, priority);
11     document.getElementById('todo-list').appendChild(taskItem);
12     resetForm();
13   } else {
14     alert('Please fill in both the task name and the due date.');
```

```
error: src refspec main does not match any
error: failed to push some refs to 'https://github.com/aH0-ST5/todo.git'
PS C:\Users\Administrator\Desktop\maa\todo-list> git push origin main
To https://github.com/aH0-ST5/todo.git
 ! [rejected]        main -> main (non-fast-forward)
error: failed to push some refs to 'https://github.com/aH0-ST5/todo.git'
hint: Updates were rejected because the tip of your current branch is behind
hint: its remote counterpart. If you want to integrate the remote changes,
hint: use 'git pull' before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
PS C:\Users\Administrator\Desktop\maa\todo-list>
```

Step 2: Initialize Git and Push to GitHub:

- * Open Git Bash.
- * Navigate to Your Project Directory
- * Initialize a Git Repository
- * Add All Files
- * Commit Your Changes
- * Add Your GitHub Repository
- * Push to GitHub

Step 3: Create and Merge a New Branch

- * Create a New Branch
- * Make Changes, Add, and Commit
- * Push the New Branch

```
MINGW64/c/Users/Administrator/Desktop/maa/to-do-list
Administrator@3bb36d3d774953e MINGW64 ~/Desktop/maa/to-do-list (main)
$ git checkout dev1
Switched to branch 'dev1'

Administrator@3bb36d3d774953e MINGW64 ~/Desktop/maa/to-do-list (dev1)
$ git add styles.css

Administrator@3bb36d3d774953e MINGW64 ~/Desktop/maa/to-do-list (dev1)
$ git commit -m "chnaged to new"
On branch dev1
nothing to commit, working tree clean

Administrator@3bb36d3d774953e MINGW64 ~/Desktop/maa/to-do-list (dev1)
$ git checkout -m dev1 main
fatal: '--merge', '--ours', or '--theirs' cannot be used when checking out of a tree

Administrator@3bb36d3d774953e MINGW64 ~/Desktop/maa/to-do-list (dev1)
$ git checkout main
Switched to branch 'main'

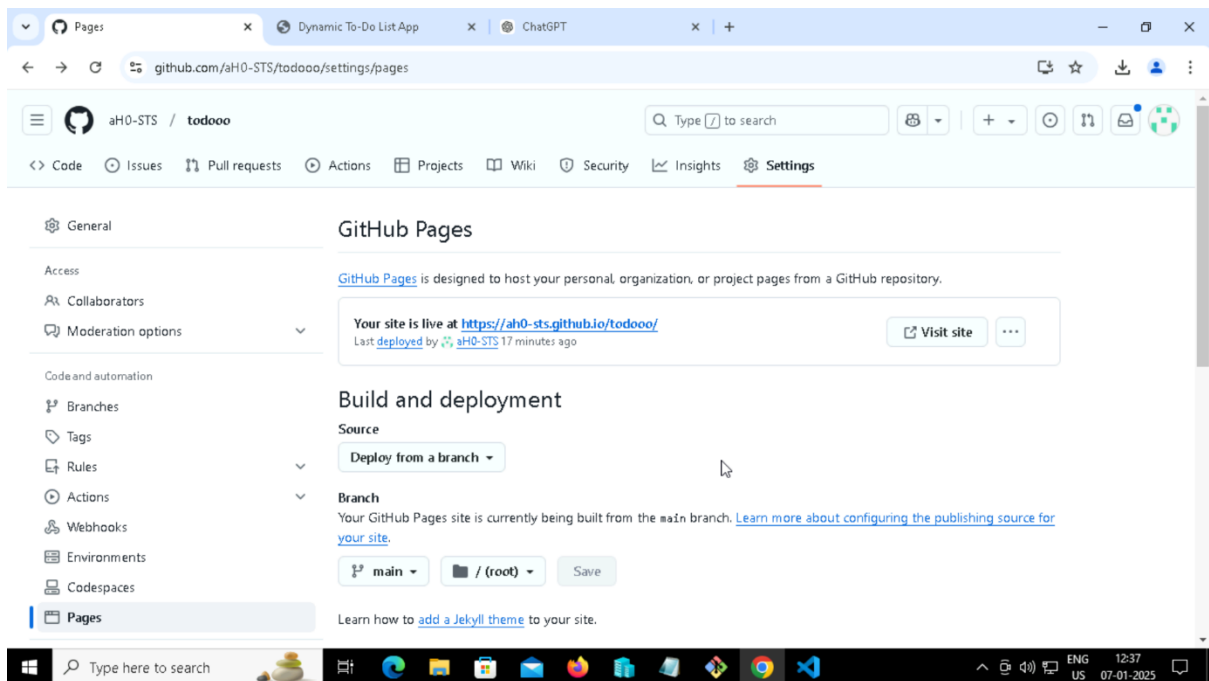
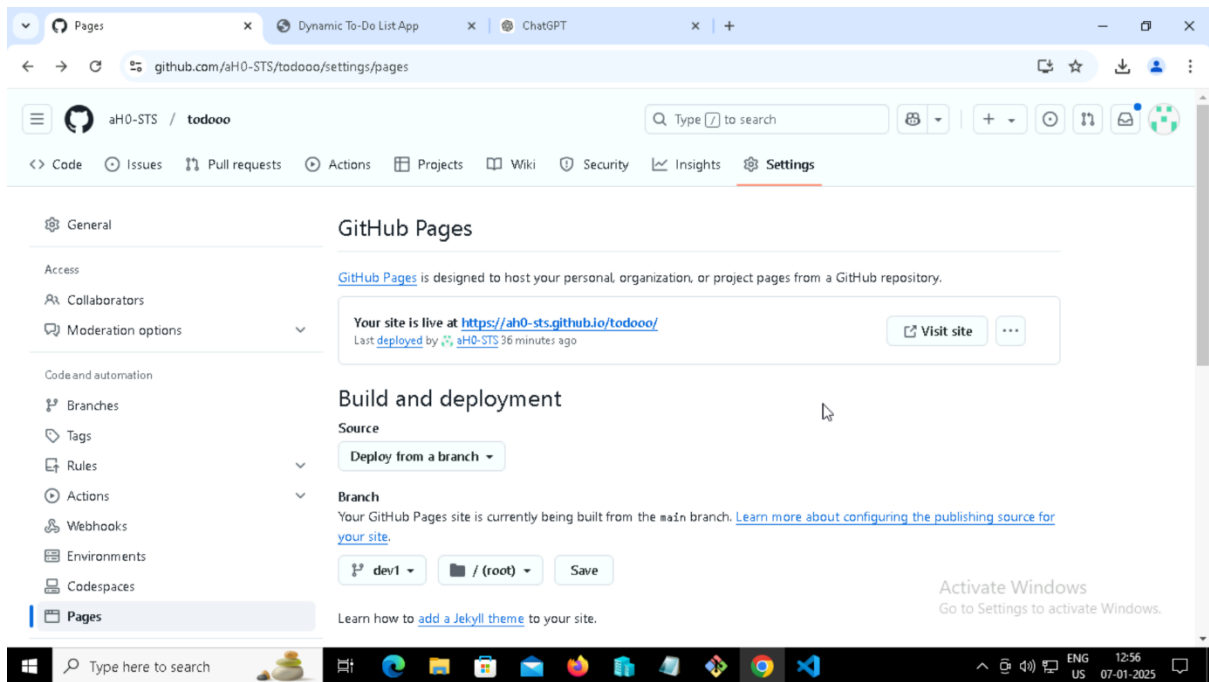
Administrator@3bb36d3d774953e MINGW64 ~/Desktop/maa/to-do-list (main)
$ git status
On branch main
nothing to commit, working tree clean

Administrator@3bb36d3d774953e MINGW64 ~/Desktop/maa/to-do-list (main)
$ ls
README.md index.html script.js styles.css

Administrator@3bb36d3d774953e MINGW64 ~/Desktop/maa/to-do-list (main)
$ git merge dev1
Already up to date.

Administrator@3bb36d3d774953e MINGW64 ~/Desktop/maa/to-do-list (main)
$ git push origin dev1
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'dev1' on GitHub by visiting:
remote:   https://github.com/ah0-ST5/todooo/pull/new/dev1
remote:
To https://github.com/ah0-ST5/todooo.git
 * [new branch]    dev1 -> dev1

Administrator@3bb36d3d774953e MINGW64 ~/Desktop/maa/to-do-list (main)
$ |
```



Step 4: Check Files and Outputs

- View Files on GitHub: Go to your GitHub repository to see the files.
- View Output: Enable GitHub Pages in the repository settings to see your application live.

