

How to Run Code:

Run below command for install all dependencies

```
npm install
```

Run below command for transpile code and run transpiled file

```
tsc index.ts
```

```
node index.js
```

How to create Project from scratch

Initialize the Project:

```
npm init -y
```

Install Dependencies

```
npm install inquirer
```

Understanding the Code

- Importing Dependencies

The code starts by importing the inquirer library, which will be used for user interactions.

- Singleton CourseEnrollment Class

The CourseEnrollment class implements the Singleton pattern. It has a private static instance and a private constructor to ensure only one instance can be created.

getInstance() method returns the single instance of CourseEnrollment.

The class has methods to enroll, drop, and get enrolled courses.

- UserInterface Class

This class interacts with the CourseEnrollment instance and inquirer to manage user input and actions. Methods like enrollCourse(), dropCourse(), and viewEnrolledCourses() are used to interact with the user and perform corresponding actions.

- main() Function

This is where the execution starts. It creates an instance of `UserInterface` and enters a loop to prompt the user for actions. Depending on the chosen action, it calls the appropriate method from `UserInterface`.

- Run the Main Script

In your command-line interface, navigate to your project folder if you're not already there and run the following command:

```
tsc  
node your-script-file-name.js
```

- Interact with the Interface

You'll see a menu with options to "Enroll in a course," "Drop a course," "View enrolled courses," and "Exit."

Choose an option and follow the prompts to interact with the app.

You can enroll in courses, drop courses, and view your enrolled courses.

- Exit

Choose "Exit" from the menu to exit the application.