UIT2602 WEB PROGRAMMING

Ex. No 04: TO-DO LIST AND BLOG POST USING RAILS

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Aim:

This aim is to streamline the implementation of CRUD (Create, Read, Update, Delete) functionality for a basic resource in a Rails application using scaffolding. It enables developers to swiftly set up a complete CRUD interface without the need for manual creation of models, controllers, views, and routes, thereby expediting the development process.

Code and Output:

Step 1: Create a New Rails Application

- Run the command **rails new todo_app** to create a new Rails application.

```
PS C:\Users\B Vasundhara\Documents\Web Programming> rails new todo_app
    create
    create  README.md
    create  Rakefile
    create  .ruby-version
    create  config.ru
```

```
 Appending: pin "@hotwired/stimulus-loading", to: "stimulus-loading.js"
    append    config/importmap.rb
 Pin all controllers
 Appending: pin_all_from "app/javascript/controllers", under: "controllers"
    append    config/importmap.rb
       run  bundle install
Bundle complete! 14 Gemfile dependencies, 82 gems now installed.
```

- Navigate into your application directory using **cd todo_app**.

```
PS C:\Users\B Vasundhara\Documents\Web Programming> cd todo_app
```

Step 2: Generate a Scaffold for the Resource

Utilize Rails scaffolding to create a blueprint for the resource, automating the generation of models, controllers, views, and routes.

- Run the command **rails generate scaffold Todo title:string description:text**

```
PS C:\Users\B Vasundhara\Documents\Web Programming\todo_app> rails generate scaffold Todo title:string
 description:text
      invoke  active_record
      create    db/migrate/20240318055939_create_todos.rb
      create    app/models/todo.rb
      invoke    test_unit
      create      test/models/todo_test.rb
      create      test/fixtures/todos.yml
      invoke  resource_route
       route    resources :todos
      invoke  scaffold_controller
      create    app/controllers/todos_controller.rb
```

Step 3: Run Database Migration

- Run the command **rails db:migrate** to execute the migration files and create the necessary tables in the database.

```
PS C:\Users\B Vasundhara\Documents\Web Programming\todo_app> rails db:migrate
== 20240318055939 CreateTodos: migrating ===================================
-- create_table(:todos)
   -> 0.0039s
== 20240318055939 CreateTodos: migrated (0.0044s) ==========================
```
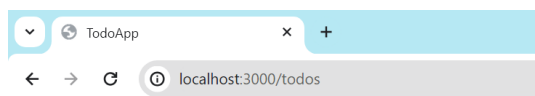
Step 4: Start the Rails Server

- Run the command **rails server** or **rails s** to start the Rails server.

-

```
PS C:\Users\B Vasundhara\Documents\Web Programming\todo_app> rails server
=> Booting Puma
=> Rails 7.1.3.2 application starting in development
=> Run `bin/rails server --help` for more startup options
*** SIGUSR2 not implemented, signal based restart unavailable!
*** SIGUSR1 not implemented, signal based restart unavailable!
*** SIGHUP not implemented, signal based logs reopening unavailable!
Puma starting in single mode...
* Puma version: 6.4.2 (ruby 3.2.3-p157) ("The Eagle of Durango")
```

```
*   Max threads: 5
*   Environment: development
*          PID: 28068
* Listening on http://[::1]:3000
* Listening on http://127.0.0.1:3000
Use Ctrl-C to stop
Started GET "/" for 127.0.0.1 at 2024-03-18 11:31:17 +0530
```
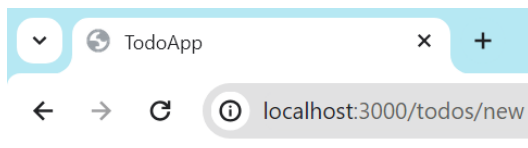
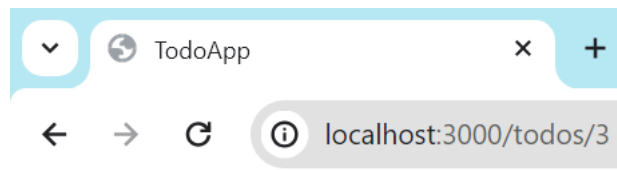# FINAL OUTPUT:

Todos

New todo

CREATION:

TodoApp — localhost:3000/todos/new

New todo

Title
Assignment Submission
Description
Web programming

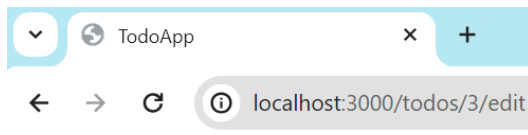Create Todo

Back to todos

TodoApp — localhost:3000/todos/3

Todo was successfully created.

Title: Assignment Submission

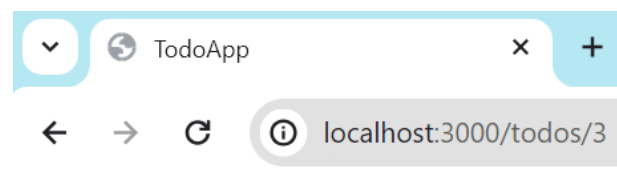**Description:** Web programming

Edit this todo | Back to todos
Destroy this todo

UPDATION:

TodoApp — localhost:3000/todos/3/edit

Editing todo

Title
Assignment Submission
Description
Graph Theory

Update Todo
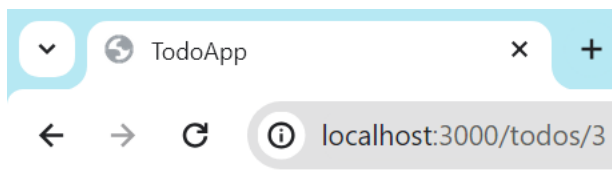
Show this todo | Back to todos

TodoApp — localhost:3000/todos/3

Todo was successfully updated.

Title: Assignment Submission

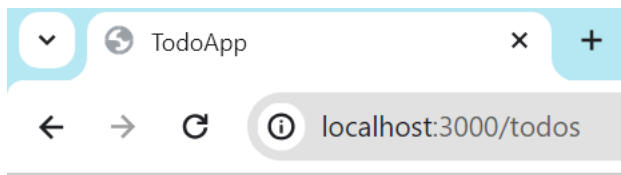**Description:** Graph Theory

Edit this todo | Back to todos
Destroy this todo

READ:

TodoApp — localhost:3000/todos/3

Title: Assignment Submission

Description: Graph Theory

Edit this todo | Back to todos
Destroy this todo

DELETION:

Todo was successfully destroyed.

Todos

New todo

Conclusion:

Successfully implemented CRUD functionality for a basic resource using Rails scaffolding. This approach allows for rapid development of simple applications, providing a user interface for performing CRUD operations without having to manually write all the code for models, controllers, views, and routes.