

## Ruby on Rails: Todo App Setup Guide (for Windows)

### 1. INSTALL RUBY AND RAILS

- Install Ruby using the RubyInstaller: <https://rubyinstaller.org/>
- Make sure to check the box to install MSYS2 during installation.
- Open a new Command Prompt and install Rails:
  - > gem install rails
  - > rails -v
  - > ruby -v

### 2. CREATE A NEW RAILS APP

- > rails new myapp
- > cd myapp
- If prompted with .gitignore conflict, you can type Y to overwrite.

### 3. GENERATE A TASK MODEL

- Below is a command
- > rails generate model Task title:string completed:boolean

Generated Files from the above command:

- db/migrate/[timestamp]\_create\_tasks.rb
- app/models/task.rb
- test/models/task\_test.rb
- test/fixtures/tasks.yml

### 4. MIGRATE THE DATABASE

- > rails db:migrate

### 5. CREATE A CONTROLLER FOR TASKS

- > rails generate controller Tasks
- Generated Files:
  - app/controllers/tasks\_controller.rb
  - app/views/tasks/[index.html.erb]
  - config/routes.rb (you'll modify this next)

### 6. UPDATE CONTROLLER

Code-

```
class TasksController < ApplicationController
  def index
    @tasks = Task.all
  end

  def create
    @task = Task.new(task_params)
    if @task.save
      redirect_to tasks_path
    end
  end
end
```

```

    else
      render :index
    end
  end

  def destroy
    @task = Task.find(params[:id])
    @task.destroy
    redirect_to tasks_path
  end

  def toggle
    @task = Task.find(params[:id])
    @task.update(completed: !@task.completed)
    redirect_to tasks_path
  end

  private

  def task_params
    params.require(:task).permit(:title)
  end
end

```

## 7. SET UP ROUTES

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Code-

```

Rails.application.routes.draw do
  root "tasks#index"
  resources :tasks, only: [:index, :create, :destroy]
  patch "tasks/:id/toggle", to: "tasks#toggle", as: "toggle_task"
end

```

## 8. CREATE BASIC VIEWS

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Create simple HTML forms and task list displays inside

`app/views/tasks/index.html.erb`:


- index.html.erb

Code-

```

<h1>📌 Task Manager</h1>

<%= form_with model: Task.new, local: true do |form| %>
  <%= form.text_field :title, placeholder: "Enter task..." %>
  <%= form.submit "Add Task" %>
<% end %>

<ul>
  <% @tasks.each do |task| %>
    <li>
      <%= task.title %>
      <% if task.completed %>
        
      <% else %>

```

```
      ✖
    <% end %>
    <%= button_to "Toggle", toggle_task_path(task), method: :patch %>
    <%= button_to "Delete", task_path(task), method: :delete %>
  </li>
<% end %>
</ul>
```

#### 8. START THE SERVER

```
-----
> rails server
```

Then open: <http://localhost:3000>

Your basic TODO app is ready! You can create, edit, delete, and view tasks.