1. Open **https://sequencediagram.org/**
2. Paste the following:

```
title Rails New/Create Flow with Validation

actor User
participant Browser
control "Rails Router" as Router
participant "PostsController" as Controller # Assuming a Posts resource
participant "new.html.erb" as NewView
entity "Post Model" as Model # The ActiveRecord model
database Database

# --- Phase 1: Requesting the 'new' form ---

User->Browser: Clicks "New Post" Link
activate Browser
Browser->Router: GET /posts/new
activate Router
Router->Controller: new() action
deactivate Router
activate Controller
Controller->Model: new()
activate Model
Model-->Controller: Returns empty @post object
deactivate Model
Controller->NewView: render :new (passing @post)
activate NewView
NewView-->Controller: Generates HTML form markup
deactivate NewView
Controller-->Browser: Sends HTML with Response (200 OK)
deactivate Controller
Browser->User: Displays empty form for Post
deactivate Browser

# --- Phase 2: Submitting the form ---
space 10
User->Browser: Fills form, Clicks "Create Post"
```

```
activate Browser
Browser->Router: POST /posts (with form data)
activate Router
Router->Controller: create() action
deactivate Router
activate Controller
Controller->Model: new(post_params)
activate Model
Model-->Controller: Returns populated @post object
deactivate Model
Controller->Model: save()
activate Model
note right of Model: Run Model Validations

alt Validations Pass
  Model->Database: INSERT INTO posts (...) VALUES (...)
  activate Database
  Database-->Model: Success (e.g., returns ID)
  deactivate Database
  Model-->Controller: save() returns true
  deactivate Model
  Controller->Browser: Sends Redirect Response (302 Found)\nLocation: /posts (or post show page)
  deactivate Controller
  Browser->Router: GET /posts (Follows Redirect)
  note over Browser, Database: New request cycle begins (Index/Show action)...
  deactivate Browser

else Validations Fail
  Model-->Controller: save() returns false\n(@post object has errors)
  deactivate Model
  note left of Controller: @post contains user's\nsubmitted data + errors
  Controller->NewView: render :new (passing @post)\nstatus: :unprocessable_entity (422)
  activate NewView
  NewView-->Controller: Generates HTML form markup\n(including errors and re-populating fields)
  deactivate NewView
  Controller-->Browser: Sends HTML with Response (422 Unprocessable Entity)
```

```
    deactivate Controller
    Browser->User: Displays form again with\nvalidation errors and previous data
    deactivate Browser
end
```