

Handling User Stories with Rails Scaffold, Custom Migrations, and ActiveStorage

Table of Contents

1. [Introduction](#)
2. [Generating a Rails Scaffold for User Story 1: Creating a Student](#)
3. [Custom Migration for Email Validation](#)
4. [Model Validations for User Stories 1 and 2](#)
5. [Setting Up ActiveStorage for Profile Pictures \(User Story 3\)](#)
6. [Displaying the Profile Picture \(User Story 3\)](#)
7. [Modifying StudentsController to Permit Profile Picture Uploads](#)
8. [Adding File Upload Field to Form for Profile Picture](#)
9. [Adding a Default Profile Picture](#)
10. [Testing \(TDD\) for Student Model and Features](#)
11. [References](#)

1. Introduction

- Purpose: To provide a step-by-step guide for handling user stories in a Rails project.
- Overview: Explains the use of Rails scaffold, custom migrations, ActiveStorage, and TDD to manage key features like student profiles and profile picture uploads.

2. Generating a Rails Scaffold for User Story 1: Creating a Student

- Scaffold Command
- Database Schema Generation
- Next Steps: Customizing Validations

3. Custom Migration for Email Validation

- Generating a Migration
- Modifying Migration File
- Running the Migration

4. Model Validations for User Stories 1 and 2

- Validating Fields: First Name, Last Name, Major, School Email, Graduation Date
- Uniqueness and Format of School Email

5. Setting Up ActiveStorage for Profile Pictures (User Story 3)

- Installing ActiveStorage
- Migrating the Database

6. Displaying the Profile Picture (User Story 3)

- Show View Logic: Displaying Uploaded or Default Image
- Image Variants and Resizing

7. Modifying StudentsController to Permit Profile Picture Uploads

- Strong Parameters for Profile Picture

8. Adding File Upload Field to Form for Profile Picture

- Updating Form for Profile Picture Input

9. Adding a Default Profile Picture

- Setting Default Image in Assets

10. Testing (TDD) for Student Model and Features

- Test Setup: Student Fixtures
- Key Tests for Validation, Uniqueness, and Saving

11. References

- Cited Materials: Books, Documentation, etc.