

Course Project - Testing Overview



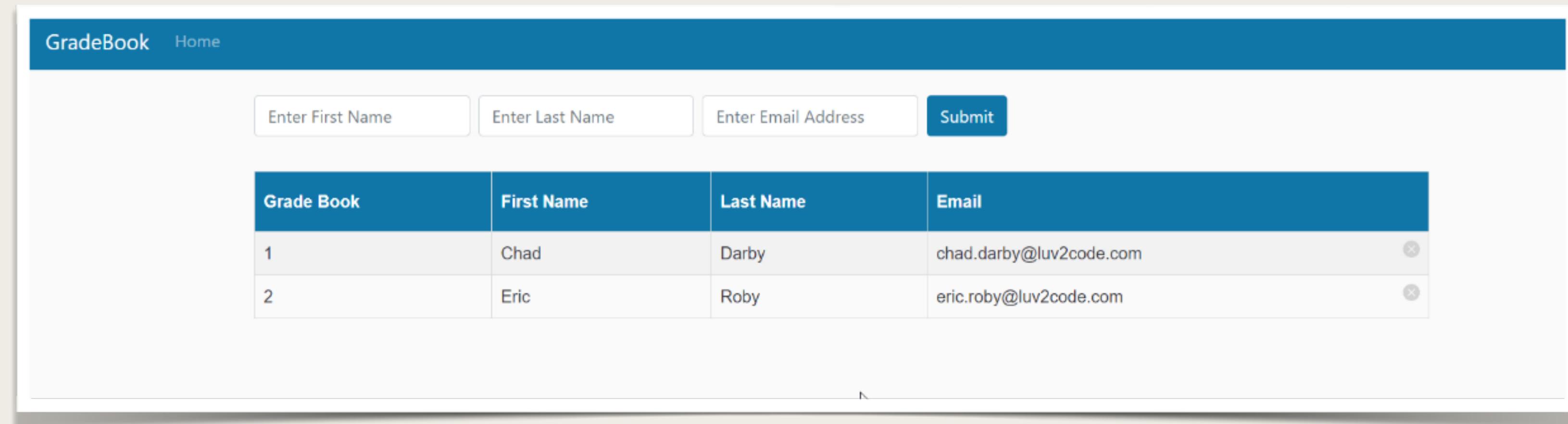
Student Grade Book App

- We will start with an existing Student Grade Book App
- The app was created by a previous employee ... but it is unfinished (yikes!)
- Our job:
 - Add remaining functionality to save data in database
 - Add unit tests and integration tests

GradeBook Home			
Enter First Name Enter Last Name Enter Email Address Submit			
Grade Book	First Name	Last Name	Email
1	Chad	Darby	chad.darby@luv2code.com
2	Eric	Roby	eric.roby@luv2code.com

About Student Grade Book App

- An instructor can keep track of grades for a student
- Grades are tracked for the subjects: History, Science and Math
- Instructor can add grades for a student for a specific subject



The screenshot shows a web-based application titled "GradeBook Home". At the top, there are three input fields: "Enter First Name", "Enter Last Name", and "Enter Email Address", followed by a blue "Submit" button. Below these fields is a table with four columns: "Grade Book", "First Name", "Last Name", and "Email". The table contains two rows of data:

Grade Book	First Name	Last Name	Email
1	Chad	Darby	chad.darby@luv2code.com
2	Eric	Roby	eric.roby@luv2code.com

Technical Stack

- Spring Boot
- Spring Data JPA
- Spring MVC
- Thymeleaf views
- CSS and JavaScript

DEMO

Existing Code

Controller

GradeBookController.java

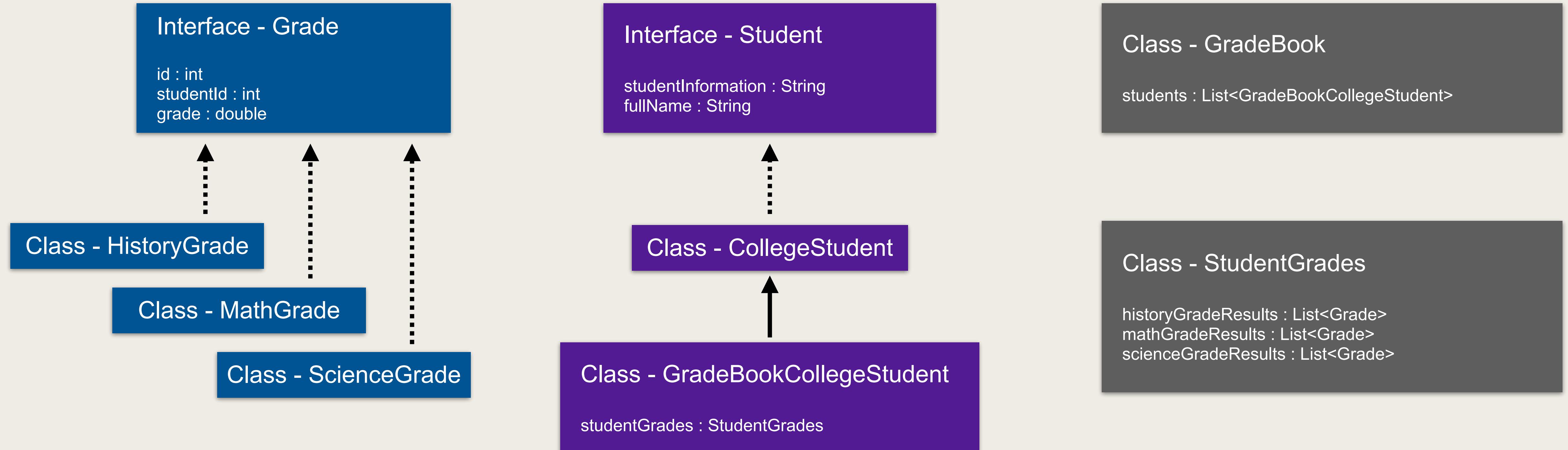
View

index.html
studentInformation.html
error.html
cssandjs/

Model

CollegeStudent.java
Grade.java
Gradebook.java
GradebookCollegeStudent.java
HistoryGrade.java
MathGrade.java
ScienceGrade.java
Student.java
StudentGrades.java

Existing Code - Model Classes



Code we will develop

- Currently, the app does not store information in database
- We'll add DAO database support
- We'll also add a service class
- During development, add unit tests and integration tests

Final Architecture

