Final Presentation

Team 42

Project Description

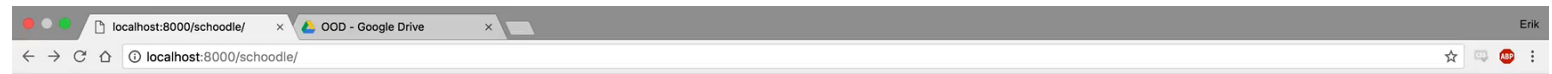Team Members: Erik Holbrook, Ahmed Al Hasani

Team Name: Schoodle

Team Number: 42

Description: a web-based application for college course-related tasks, like tracking grades, sharing content and submitting assignments.

Vision: Create an application that requires numerous classes to incorporate Object-Oriented Principles and the course's concepts.

Demo
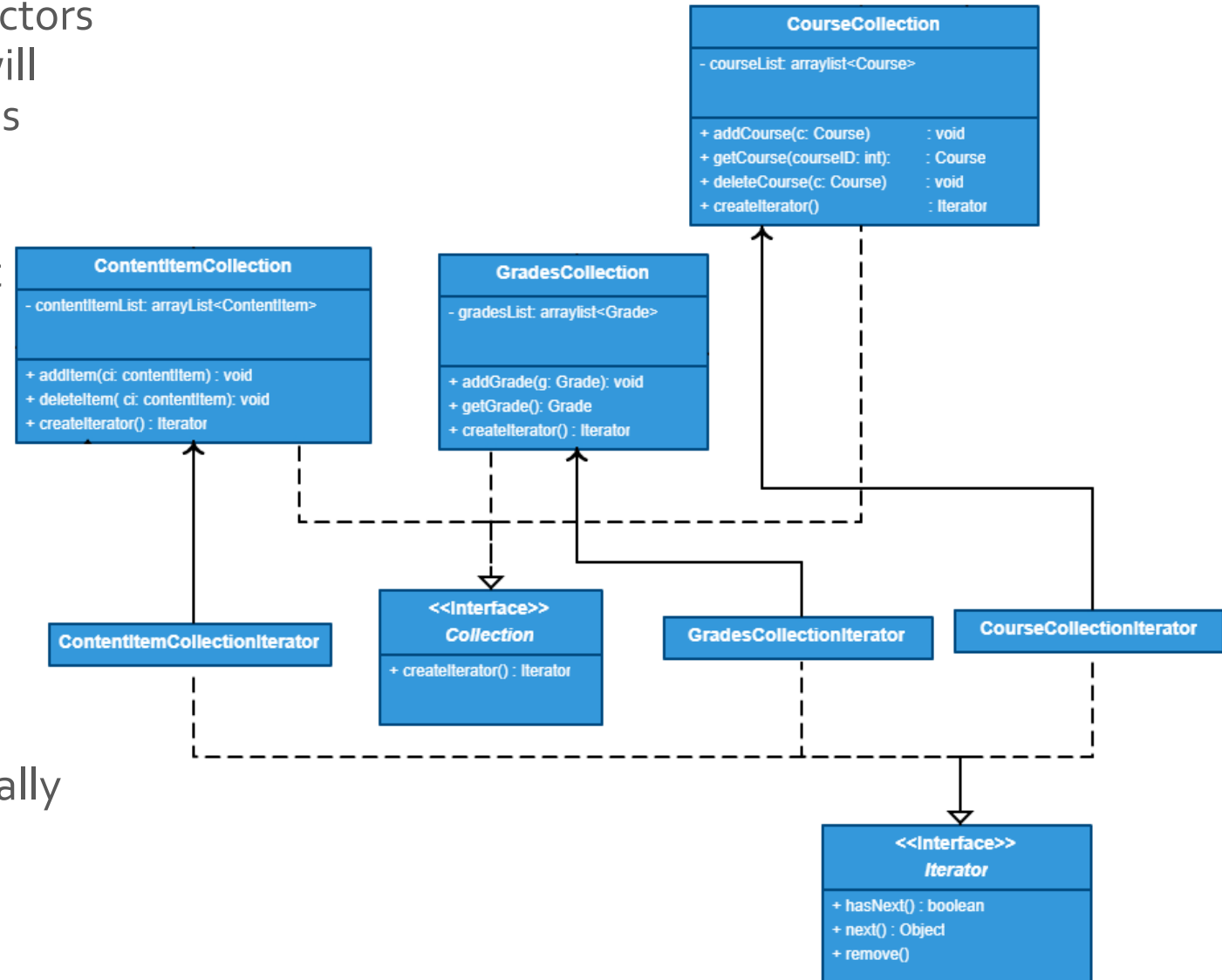

- Initial Plan was to implement assignments and quizzes
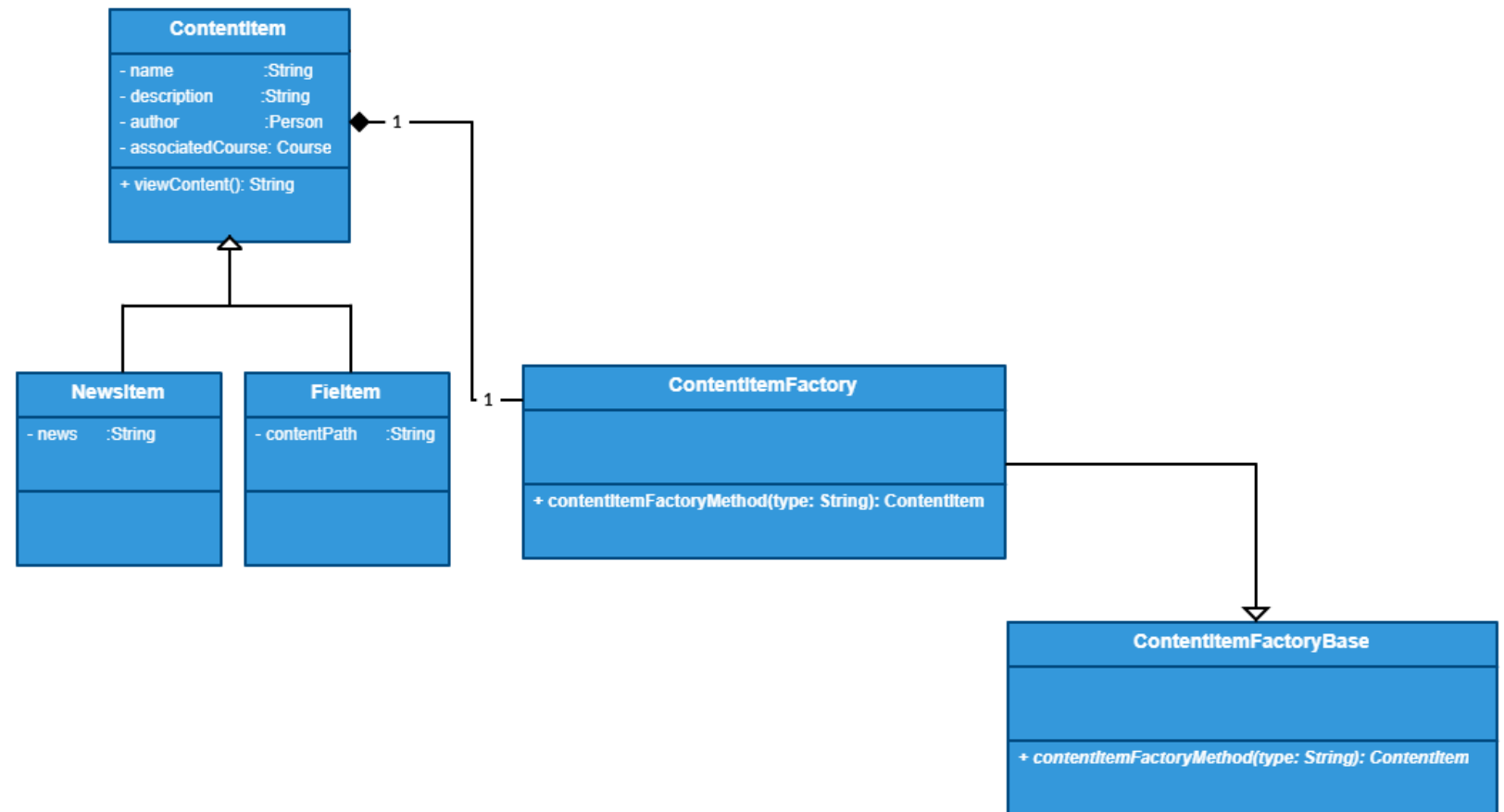
Design Pattern

Iterator

- Courses, instructors and students will have collections

- Grade, content item, course collection

- Must iterate through each collection

- What was actually implemented

CourseCollection

- courseList: arraylist<Course>

+ addCourse(c: Course) : void
+ getCourse(courseID: int): Course
+ deleteCourse(c: Course) : void
+ createIterator() : Iterator

ContentItemCollection

- contentItemList: arrayList<ContentItem>

+ addItem(ci: contentItem) : void
+ deleteItem(ci: contentItem): void
+ createIterator() : Iterator

GradesCollection

- gradesList: arraylist<Grade>

+ addGrade(g: Grade): void
+ getGrade(): Grade
+ createIterator() : Iterator

ContentItemCollectionIterator

<<Interface>>
Collection

+ createIterator() : Iterator

GradesCollectionIterator

CourseCollectionIterator

<<Interface>>
Iterator

+ hasNext() : boolean
+ next() : Object
+ remove()

Design Pattern

Factory

- Dynamically create the appropriate class as needed
- Instructors
- Implementation

Video Link

https://drive.google.com/file/d/1Jy1e9D2xFpELKOjaDnbLwvpElCIGgxIT/view?usp=sharing