EECS3311 Group #2: Course Compass

System Design Documentation

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Class Name : CourseSearch.tsx	
Subclass: CoursePage.css, CourseSearch.css	
Responsibilities: • Gets all courses from the database • Returns courses matching users applied search filters • Displays contents of **SearchFilters.tsx, CourseList.tsx** and **CourseDetails.tsx** on one page	**Collaborators:** • Julia Da Silva

Class Name : App.tsx	
Responsibilities: • Creates an App rendering the imported component from **CourseSearch.tsx** • Exports App	**Collaborators:** • Julia Da Silva •

Class Name : main.tsx	
Subclass: index.css	
Responsibilities: • Renders and displays the React web application imported from **App.tsx**	**Collaborators:** • Gurjap Hajra

Class Name : connection.js	
Responsibilities: • Connect the server to MongoDB database	**Collaborators:** • Gurjap Hajra

Class Name : courses.js	
Responsibilities: • Manages the stored list of courses in the database • Can get a course, add/delete courses and update a course	**Collaborators:** • Gurjap Hajra

Class Name : server.js	
Responsibilities: • Sets up the server • Directs server requests related to courses(e.g get course) to **courses.js**	**Collaborators:** • Gurjap Hajra

Class Name : CourseDetails.tsx	
Subclass: CoursePage.css, CourseProfessor.css	
Responsibilities: - Displays a more detailed view about each course - Display which professors are teaching that course - Separates information about course and professors into different tabs	**Collaborators:** Julia Da Silva

Class Name : CourseList.tsx	
Subclass: CourseList.css	
Responsibilities: Displays a list of courses with each course shown in its own card	**Collaborators:** Julia Da Silva

Class Name : SearchFilters.tsx	
Subclass: CourseSearch.css	
Responsibilities: - Allows user to search for a course using an input field - Allows user to filter search results by course level, departments and its number of credits - Prompts user to apply their search filters with a button	**Collaborators:** Julia Da Silva

Class Name : types.ts	
Responsibilities: - Contains an interface for courses with attributes like course name, description, etc - Contains an interface for Professors with attributes like their teaching quality, difficulty, etc - Course interface contains Professor object as an attribute for professors teaching that specific course	**Collaborators:** Julia Da Silva

Class Name : index.html	
Responsibilities: • acts as a container for the website and executes the script **main.tsx**	**Collaborators:** • Julia Da Silva • Gurjap Hajra

Class Name : config.env	
Responsibilities: • Holds connection string for the MongoDB database	**Collaborators:** • Gurjap Hajra

retrieves courses
from database

updates view to show
searched courses

Model

Database

tells model to fetch courses
matching search request

View

Controller

displays course list/information

enters course code/ filters in search

User