Project Syntax

Project Design Document

UofT Course Planning tool

Amit Ohm, Peter Tam

Contents

CRC Cards

For our project, one conceptualized part of our system may be housed in multiple files, or may represent an entire folder. Each part of our system for the corresponding CRC card will have their files listed below:

Backend API Service: /usca-api/*

MongoDB: Although we are using a remote mongoDB instance, we connect to the DB and make queries in /usca-api/src/service/transactions/route.ts

Frontend Controller: /usca-app/components/*.vue

All of the parts in our code that handle user inputs are as event handling in vue components.

Frontend View: /usca-app/src/components/*.vue   AND   /usca-app/src/views/*.vue

As we are using vue, these components are what the user will be seeing.

Frontend Model: all variables stored in /usca-app/src/components/*.vue

Eg: in SearchBar.vue, we keep a list of current courses returned from the backend API service from a course search.

Backend API Service

- handles requests for course information by querying MongoDB converts
- formatting of course information from MongoDB to event format

- MongoDB
- Frontend Controller

Frontend Controller

- Handles user's search and selection of courses, sends appropriate requests to backend for course information
- Based on what is send back from backend, updates model (current courses selected by user)
- Also handles some user requests that do not communicate with backend and updates model directly (eg: remove selected course).

- Frontend View
- Frontend Model
- Backend API Service

Frontend View

- Updates self based on changes to model (courses selected by user)

- Frontend Model

Frontend Model

- Keeps track of what courses have been selected by user
- Updates view on changes

- Frontend Controller
- Frontend View

MongoDB	
• Houses all of our course information, allows us to query it	• Backend API Service

Software Architecture Diagram

Backend API Service

Queries mongoDB based on request and sends information back in Event format

User of application

Interacts with

Sends queries

Sees

Frontend Controller

handles user requests, updates model accordingly.

Frontend View

What user sees, the calender, Search bar, Selected Course.

updates

updates

updates

Frontend Model

Veeps track of States, currently selected courses. etc.

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