CLASSROOK

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The Problem

Talal Ra... Dec 17, 2019
to me

Hi Michael,
I heard rumors that NYUAD students have some sort of a dataset or website containing all questions of previous years for various courses. Is this true? If so, do you have any information you can share? Don't worry, I promise not to mention this conversation to anyone. I just want to know to help me prepare for exams, e.g., by never using the same question twice if needed.
Thanks

me   Dec 17, 2019

Hi Professor,

Sorry, I haven't heard about this database. That would be very helpful if it does exist. I think normally when we want to see past exams we would ask professors to upload them to NYUClasses and some professors do that, or we post on facebook to see if

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April 19 at 1:10 AM
Has the Gov't and Religion application gone out yet? Anyone that has taken it as a senior have thoughts on workload with Capstone? Would appreciate any input
5 Comments

Conversation Starter · April 22 at 4:02 PM
Any feedback on the following courses and professors? Workload, grading, engagement, intellectual stimulation, easy A?

Industrial Revolution and the Future of Work w/ Nancy Gleason
Mortal and Immortal Questions w/Philip Mitsis
FOMST w/ Edgar Kiser
14 Comments

Conversation Starter · April 23 at 4:56 PM
Thoughts on "Feature Writing" with Charles Siebert in terms of workload and grading.

Also is it chill to take Literary Interpretations (w Toral Gajarawala) and Foundations of Literature (w Cyrus Patel) together?

would really appreciate some guidance.
4

April 23 at 2:52 PM
Can someone please send me any previous syllabus for:
Contracts with Peter Goodrich
Economic History in the Middle East with Bob Allen
Also, thoughts on the workload? Thanks a lot
1   8 Comments

April 4, 2019
Psych Majors!
Was wondering if taking Biopsych and Statistics for Psych together is a good idea? Is the workload manageable? How strict is Global Ed on lacking in 1 of required classes before going on study away? Any guidance would be super helpful.
TIA!
2   8 Comments

April 12
I would really appreciate any recommendations for classes. I need the following requirements but I would also love to enjoy senior year. If you have done a class or a professor that you really enjoyed lmk

Can people please recommend GPA friendly:
- Research methods elective
- SRPP - social structures and global processes elective
- Core: Data and discovery

GPA friendly is characterized by the following:
- The professor is a kind to a fair grader
- The workload is manageable for senior year
- Limited to no math

Conversation Starter · April 22 at 5:48 PM
any recommendations for a philosophy course I could take that would show me if I want to switch to a philosophy major? (anything fun, engaging with a cool Professor, and an easy A with manageable workload)
Sarah Al and 3 others   24 Comments

The solution

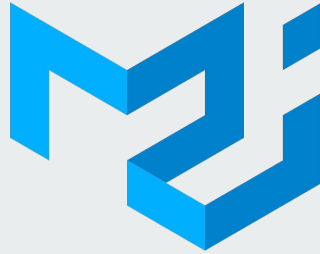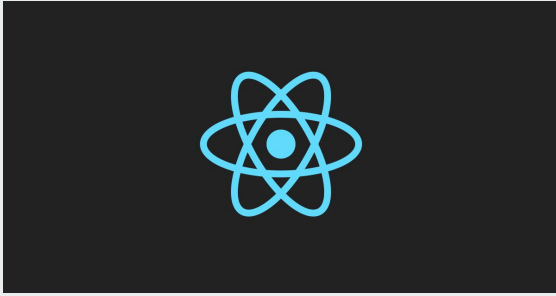A Progressive Web Application can do the following:

- View course information that covers the entire NYUAD catalog
- Post reviews about courses.
- Upload important learning materials for others.
- Download learning materials

Most importantly:
- A point based system that rewards users who share materials with each other
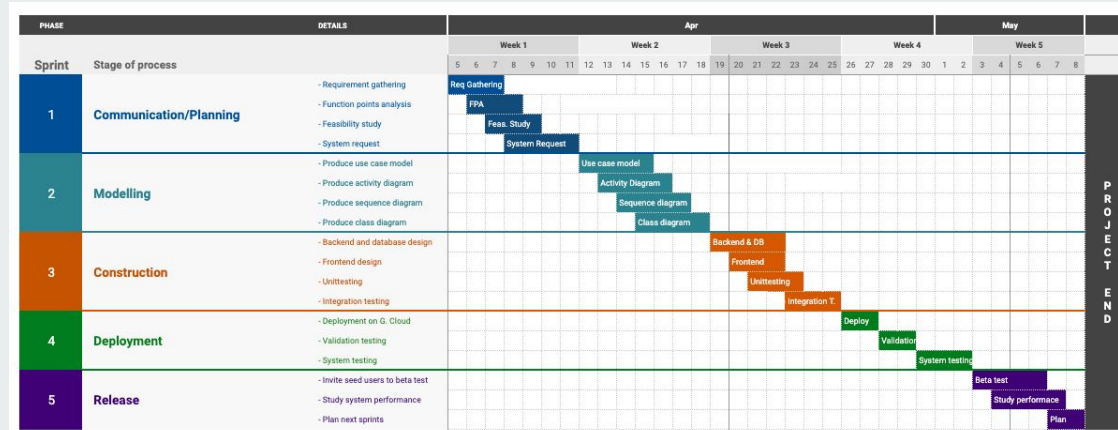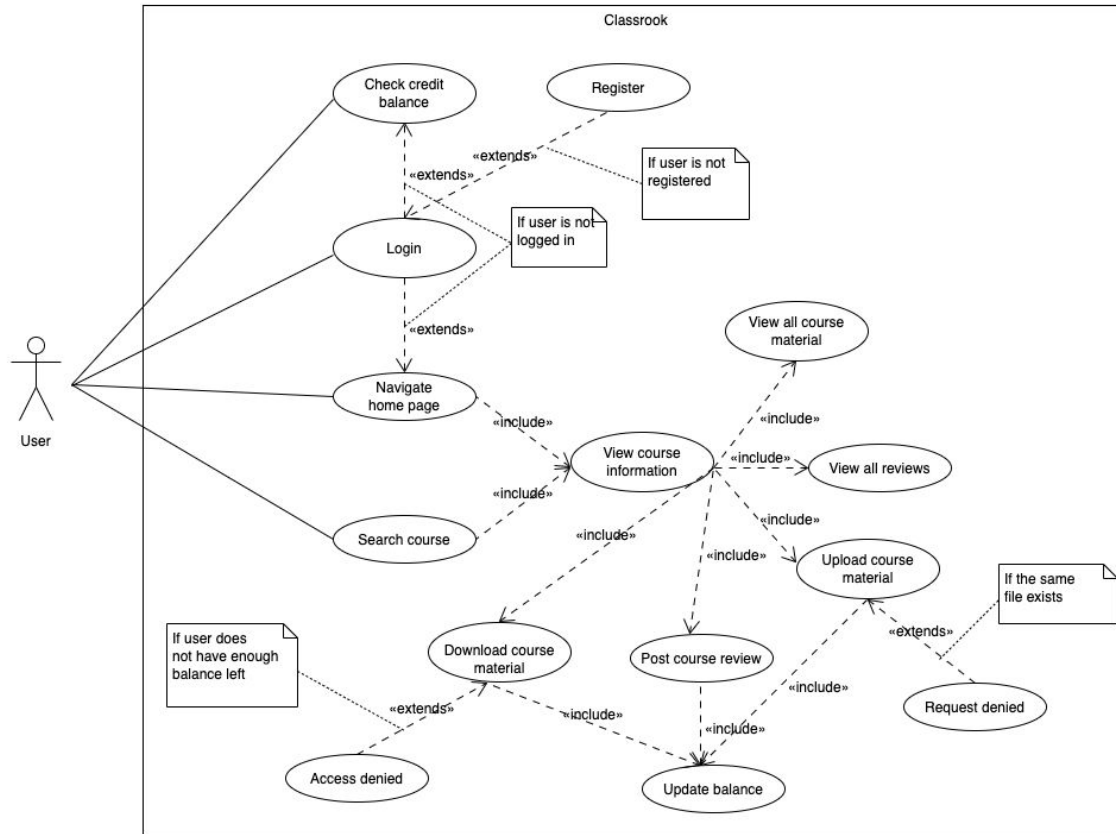
Development process

Demo!

Process models

We used the Agile/Scrum framework because of the fact that:

1) Small team of software engineers.
2) Features built incrementally and tested before moving onto the next.
3) Team members are competent and able to complete tasks by taking initiative.

Use case diagram

Class diagram and design patterns

1. Backend REST API - **facade**
   a. APIs provides a simplified interface to hide interaction among backend classes
   b. Keeps tech stack flexible; avoids lock-in
2. Database - **singleton**
   the database object offers a single point of access that is available globally to guarantee ACID principle
3. Serializer - **adapter**
   allows database records of different types to be returned as json objects

```python
class CourseSerializer(serializers.HyperlinkedModelSerializer):
    class Meta:
        model = Course
        fields = ['id', 'category', 'code', 'title', 'description']

class UserSerializer(serializers.HyperlinkedModelSerializer):
    class Meta:
        model = User
        fields = ['id', 'username', 'email', 'credits']

class ReviewSerializer(serializers.HyperlinkedModelSerializer):
    class Meta:
        model = Review
        fields = ['id', 'user_id', 'course_id', 'review', 'created_at', 'last_modified']
```

```
                    0..*                              0..*
            Review                          CourseMaterial
```

```python
urlpatterns = [
    path('', include(router.urls)),
    path('admin/', admin.site.urls),
    path('courses/', views.course_list),
    path('user/', views.user_info),
    path('review/', views.post_review),
    path('upvote/', views.upvote_review),
    path('add_user/', views.post_user),
    path('get_by_email/', views.user_info_by_email),
    path('course_by_code/',views.course_info_by_code),
    path('get_exact_course/', views.get_exact_course),
    path('review_by_course_id/', views.review_info_by_course_id),
    path('upload_document/', views.upload_file),
    path('download_document/', views.download_file),
```

Class diagram and design patterns

4. Frontend - **Builder** Separate the construction of a complex object from its representation.

5. Frontend - Higher Order Component or **Decorator**

```jsx
render(){
    if(this.state.filesView){
        return (<Redirect to={`/majors/${this.state.courseInfo.category}/${this.state.courseInfo.id}/files`} />)
    }
    return(
        <>
        <Grid container direction="column">
        <Grid item>
            <CourseInfoCard {...this.state.courseInfo} />
        </Grid>
        {this.showUpload()}
        <Grid item>
            <CreateReview />
        </Grid>
        <Grid item>
        </Grid>
        <Grid item container justify="center" alignItems="center">
        <Grid item xs={false} sm={2} />
        <Grid container spacing={8}>
            {this.state.reviews.map(contentCardObj =>
                <Grid item xs={12} sm={4}>
                    <ReviewCard {...contentCardObj} />
                </Grid>
            )}
        </Grid>
        </Grid>
        </Grid>
        </>
    );
}
```

```jsx
export const Builder = (displayName = 'Component') => {
    let _render, _componentDidMount

    const builder = {
        render: renderFn => {
            _render = renderFn
            return builder
        },
        componentDidMount: didMountFn => {
            _componentDidMount = didMountFn
            return builder
        },
        // mapStyles: styles => {
        //     _styles = styles
        //     return builder
        // },
        build: () => {
            if (!_render) {
                throw new Error('Component render method required')
            }
            let Comp;
            Comp = class extends Component {
                render() {
                    return _render(this.props)
                }
                componentDidMount() {
                    if (_componentDidMount) _componentDidMount(this.props)
                }
            }
        }
    }
}
```

QA measures

Validation testing.

View course information
Post course review
Upload materials
Download materials.

Bugs found:
Incrementing point count when uploading materials
Search bar visibility in front-end