KCShare

Visible Learning

Kingsway College Senior School

Kingsway College Senior School

Problem: A majority of a student's learning is invisible to their peers

Kingsway College Senior School

Problem: Most of the work a student does is hidden from their peers

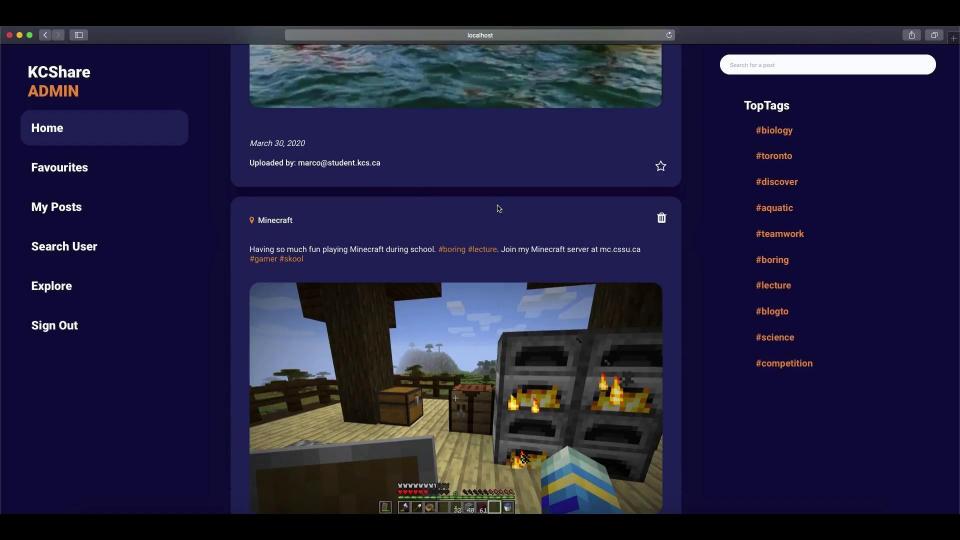
Concept: Each student takes a unique path in their learning experience, this is something worth **sharing**

Guiding Design Principles

Guiding Design Principles

- Easy to share
- 2. Easy to explore
- 3. Easy to moderate
- 4. Minimal
- 5. Sparks Discussion
- 6. Inclusive Environment

WEB DEMO



MOBILE DEMO



Accessing the Backend

- Backend is hosted by Amazon Web Service
- Log in with developer credentials to access
- Services Used:
 - DynamoDB
 - Cloudfront
 - AWS Lambda
 - API Gateway
 - o Amazon S3
 - Cognito

Accessing the Mobile Application

- Mobile Application is a Cross Platform App written in React Native
- Source code is available in the project GitHub repository
- App can be compiled and used using Expo Client on Android or iOS, with the instructions given in the mobile README file
- Towards the end, the app will be sent for review and published in the Android and iOS app stores.

Accessing the Website

- The website is hosted on AWS CloudFront with a default domain name
- A custom URL can be set using Amazon Route 53
- All source code is available in the repository
- The shortened address https://tinyurl.com/kcs-share can be used in the meantime

Handover Instructions

- Github repository containing mobile and web code will be handed over
- Documentation for mobile, web and the API is available in the GitHub repository
- AWS developer account credentials will be handed over

Lots and Lots of Lists

| Primary key | | | Attributes | | |
|-----------------------|----------------------|-----------------|------------|--------------|-----------------|
| Partition key: postID | | | Attributes | | |
| 4 | content | favouritedUsers | userID | hashtags | timeUploaded |
| 1 | "post text #giraffe" | [2] | 1 | ["#giraffe"] | 123123123123123 |

| Primary key | Attributes | |
|-----------------------|------------|------------|
| Partition key: userID | | |
| 4 | posts | favourites |
| | [1] | П |
| 2 | posts | favourites |
| 2 | О | [1] |

Storing Relationships as Entries

| Primary key | | Attributes | |
|---------------------------|------------------------|----------------------|-----------------|
| Partition key: primaryKey | Sort key: secondaryKey | Attributes | |
| | fav-2 | | |
| | post-1 | content | timeUploaded |
| post-1 | | "post body #giraffe" | 123123123123123 |
| | tag-giraffe | | |
| | user-1 | | |
| tag-giraffe | tag-giraffe | postCount | |
| tay-girane | | 1 | |
| user-1 | user-1 | postCount | |
| user-1 | | 1 | |
| user-2 | user-2 | postCount | |
| U5C1-2 | | 0 | |

| Primary key | | | |
|-----------------------------|----------------------|--|--|
| Partition key: secondaryKey | Sort key: primaryKey | | |
| post-1 | post-1 | | |
| tag-giraffe | post-1 | | |
| tag-griane | tag-giraffe | | |
| user-1 | post-1 | | |
| user-1 | user-1 | | |
| fav-2 | post-1 | | |
| user-2 | user-2 | | |

The Best of Both Worlds

| Primary key | | | |
|-----------------------------|-------------------|--|--|
| Partition key: secondaryKey | Sort key: hashtag | | |
| post-1 | giraffe | | |
| giraffe | giraffe | | |

| Primary key | | |
|-----------------------------|------------------|--|
| Partition key: secondaryKey | Sort key: userID | |
| post-1 | 1 | |
| user-1 | 1 | |
| fav-1 | 2 | |
| user-2 | 2 | |

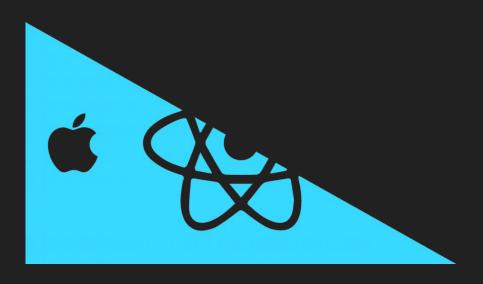
| Primary key | Attributes | |
|-----------------------|-------------------------|-----------------|
| Partition key: postID | | |
| 1 | content | timeUploaded |
| 1 | "post content #giraffe" | 123123123123123 |

- Stateful design with React and MobX
- Being able to maintain the same state between many different views on the website and allow these views to interact with each other

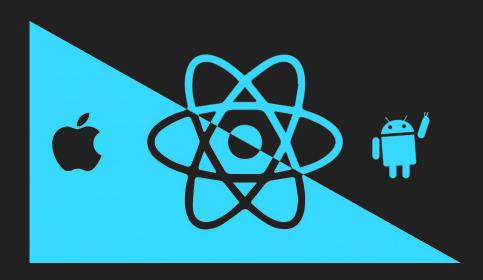
```
currentViewSwitch = (currentView, term) => {
    switch(currentView) {
        case 'My Posts':
            this.setState({ tab: <PostFeed store={ this.props.store } /> });
            return;
        case 'Search User':
            this.setState({ tab: <SearchUser store={ this.props.store } /> });
        return;
        case 'Favourrites':
            this.setState({ tab: <PostFeed store={ this.props.store } /> });
        return;
        case 'Explore':
            this.setState({ tab: <Explore store={ this.props.store } /> });
        return;
        default:
            this.setState({ tab: <Explore store={ this.props.store } /> });
        return;
        default:
            this.setState({ tab: <div><CreatePost store={ this.props.store } /> PostFeed store={ this.props.store } searchTerm={ term }/> </div>    });
        return;
}
```

Adapting to the mobile platform

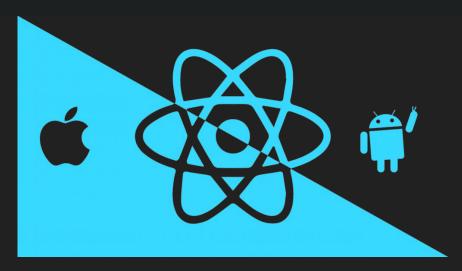
• Adapting to the mobile platform



Adapting to the mobile platform



```
searchWithTag = (tagText) => {
    this.props.navigation.navigate("Explore", {searchParam: tagText})
}
```

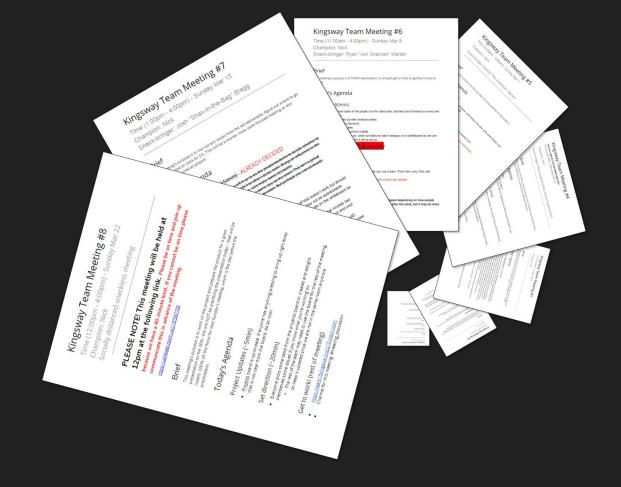


• The individuals

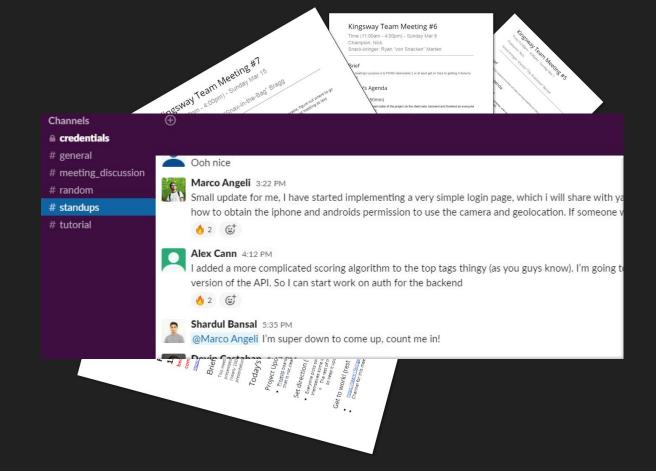
- The individuals
- Communication

- The individuals
- Communication
- Meetings

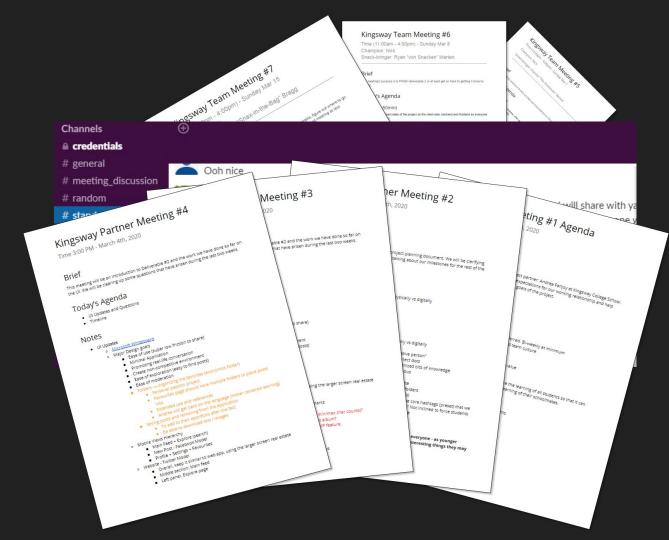
- The individuals
- Communication
- Meetings



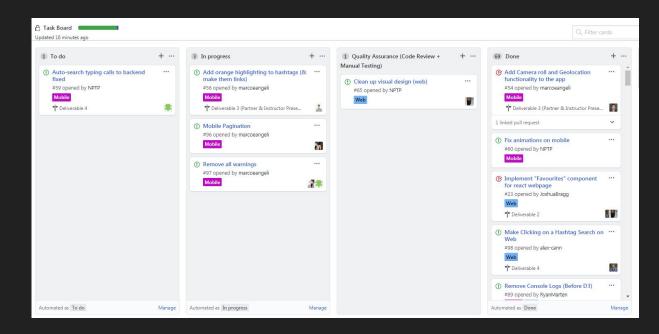
- The individuals
- Communication
- Meetings



- The individuals
- Communication
- Meetings



- The individuals
- Communication
- Meetings
- Task board



- The individuals
- Communication
- Meetings
- Task board
- What we learned

- The individuals
- Communication
- Meetings
- Task board
- What we learned
- What we'd do differently

Individual Contributions

Team Roles:

Marco Angeli | Mobile Lead

Shardul Bansal | Feature Lead (Mobile)

Joshua Bragg | Website Lead

Alex Cann | Feature Lead (Backend)

Devin Castaban | Backend Lead

Ryan Marten | Project Manager + Web

Nick Perrin | Team Lead + Mobile

at Kingsway College School

Special thanks to Andrea Fanjoy



Q & A

KCShare

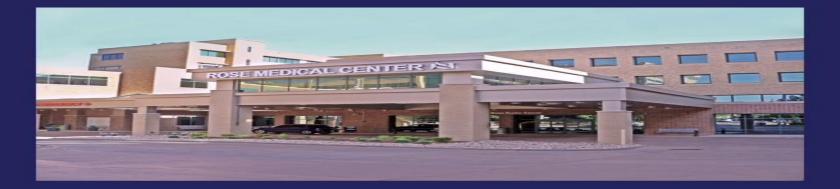
Q Search

@West Oak Medical Clinic March 30, 2020

Learned lots today about th

Favourite

Delete



@Ripley's Aquarium of Canada March 30, 2020

Can't believe the amount of crazy #aquatic life that exists. Super excited to learn more about these animals in logy class.



