KCShare

Visible Learning

Kingsway College Senior School

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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

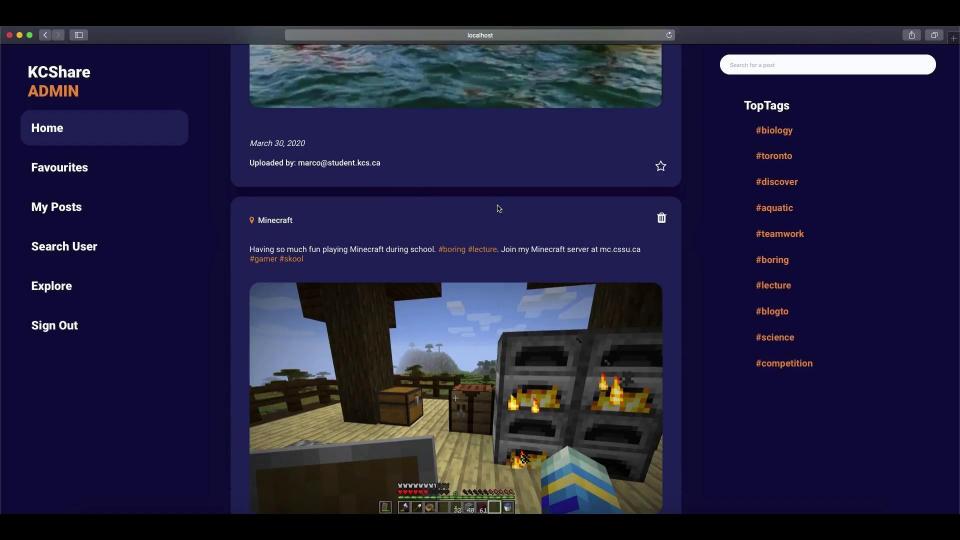
Concept: Each student takes a unique path in their learning experience, this is something worth **sharing**

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	

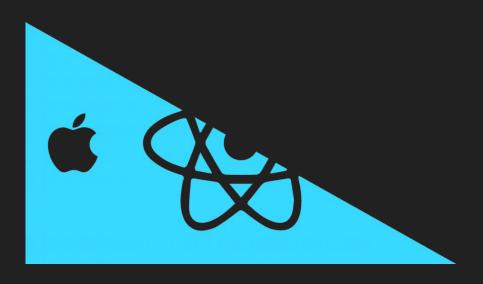
Primary key	Attributes	
Partition key: postID		
1	content	timeUploaded
1	"post content #giraffe"	123123123123123

- 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

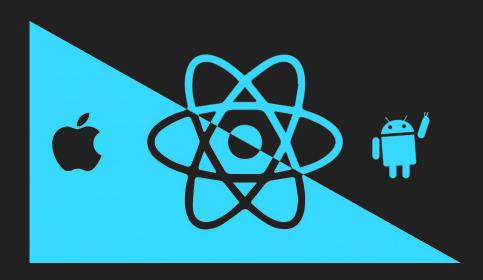
```
currentViewSwitch = (currentView, term) => {
    switch(currentView) {
        case 'My Posts':
            this.setState({ tab: <PostFeed store={ this.props.store } /> });
            return;
        case 'Search User':
            this.setState({ tab: <SearchUser store={ this.props.store } /> });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

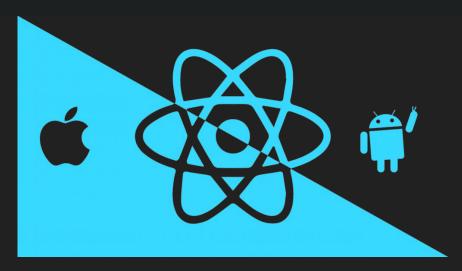
• Adapting to the mobile platform



Adapting to the mobile platform



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

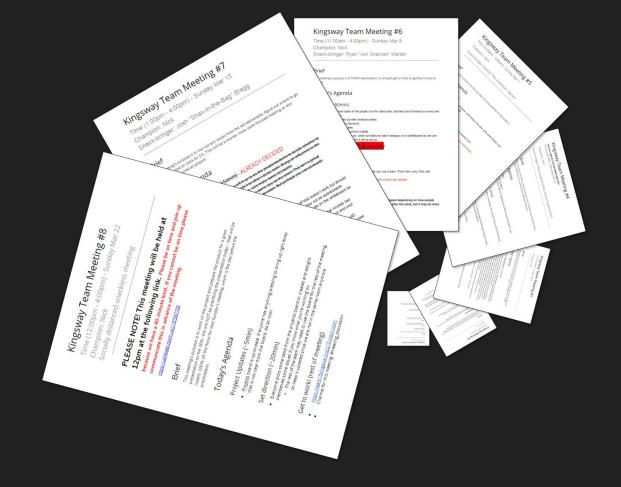


• The individuals

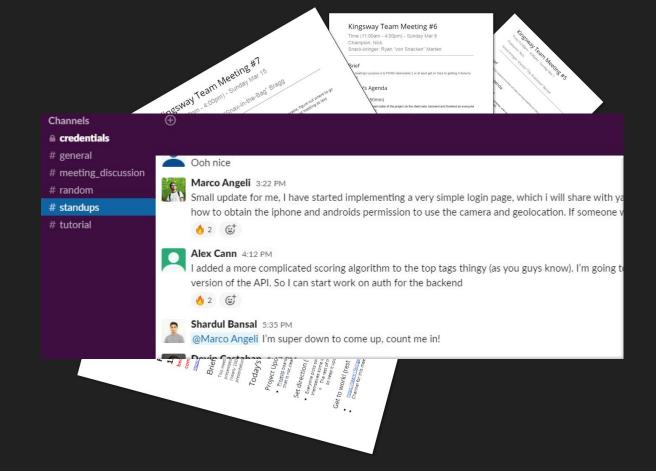
- The individuals
- Communication

- The individuals
- Communication
- Meetings

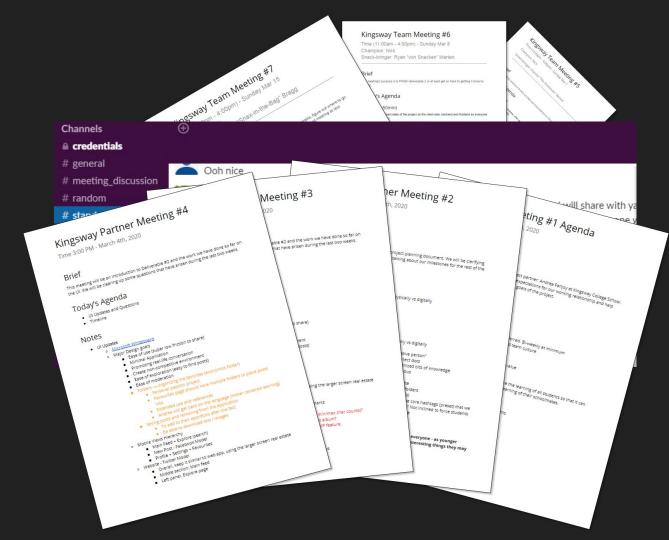
- The individuals
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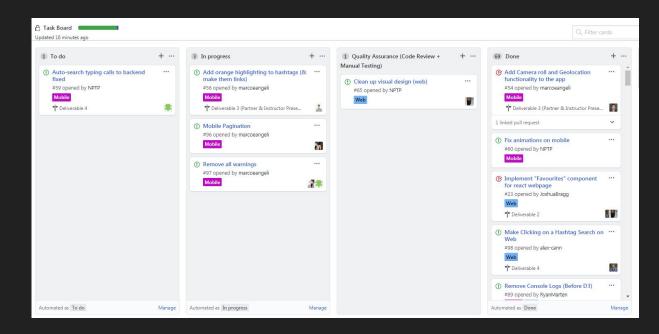
- The individuals
- Communication
- Meetings



- 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