

Name	James Howes		
Task #	Link	Notes	
532	AWS Academy read me (A copy will be uploaded with this doc)	Not allowed on AWS Academy sites	
531	<a href="https://www.docker.com/resources/what-container">https://www.docker.com/resources/what-container</a>	may be good for testing but will be extra work in production	
509	AWS Academy read me	Not allowed on AWS Academy site	
508	AWS Academy read me	Not allowed on AWS Academy sites	
525	<a href="https://aws.amazon.com/route53/">https://aws.amazon.com/route53/</a>	Not needed because we are not running a Global application	
528	<a href="https://maven.apache.org">https://maven.apache.org</a>	We should use the build tool in Dev Ops for auto building	
529	<a href="https://dzone.com/articles/javascript-webapps-gradle">https://dzone.com/articles/javascript-webapps-gradle</a>	Could work but there should be better options desired for javascript	
527	<a href="https://aws.amazon.com/about-aws/global-infrastructure/regions_az/">https://aws.amazon.com/about-aws/global-infrastructure/regions_az/</a>	We will run our app in 1 AZ but we could add a second for fail over	
526	<a href="https://aws.amazon.com/about-aws/global-infrastructure/regions_az/">https://aws.amazon.com/about-aws/global-infrastructure/regions_az/</a>	Will run in the N. Virginia Region	
541	<a href="https://www.geeksforgeeks.org/difference-between-apache-and-nginx/">https://www.geeksforgeeks.org/difference-between-apache-and-nginx/</a>	Should be used due to support for multiple requests and faster response times and lower memory usage with static files	
540	<a href="https://www.geeksforgeeks.org/difference-between-apache-and-nginx/">https://www.geeksforgeeks.org/difference-between-apache-and-nginx/</a>	This is a good alternative to nginx but cannot support multiple requests	
506	<a href="https://developer.mozilla.org/en-US/docs/Web/HTML">https://developer.mozilla.org/en-US/docs/Web/HTML</a>	This is a good reference for HTML We should not need much because React handles most of the HTML	
539	Uploaded with this document	I have created a basic AWS Cloud Diagram to show how our AWS cloud may need to be set up.	
522	<a href="https://docs.aws.amazon.com/vpc/latest/userguide/vpc-nat-gateway.html">https://docs.aws.amazon.com/vpc/latest/userguide/vpc-nat-gateway.html</a>	NAT Gateway will be needed to allow items in the private subnet access to the public internet	
523	<a href="https://docs.aws.amazon.com/vpc/latest/userguide/VPC_Internet_Gateway.html">https://docs.aws.amazon.com/vpc/latest/userguide/VPC_Internet_Gateway.html</a>	Internet Gateway will be needed to allow items in the public subnet access to the public internet. Directs internet traffic to the correct devices	
519	<a href="https://docs.aws.amazon.com/vpc/latest/userguide/VPC_Scenario2.html">https://docs.aws.amazon.com/vpc/latest/userguide/VPC_Scenario2.html</a>	Public subnet allows services to be accessed by the outside internet	
520	<a href="https://docs.aws.amazon.com/vpc/latest/userguide/VPC_Scenario2.html">https://docs.aws.amazon.com/vpc/latest/userguide/VPC_Scenario2.html</a>	Private subnet keeps services hidden from access outside the VPC	
513	AWS Academy read me	Recommends t3.micro better network performance than the t2.micro and its cheaper	
517	<a href="https://aws.amazon.com/vpc/">https://aws.amazon.com/vpc/</a>	Needed to isolate our system and place resources	
533	<a href="https://docs.aws.amazon.com/elasticloadbalancing/latest/userguide/what-is-load-balancing.html">https://docs.aws.amazon.com/elasticloadbalancing/latest/userguide/what-is-load-balancing.html</a>	I would recommend a Application load balancer if we would like to put our EC2 behind the private subnet and use the LB to manage the EC2. Could help with recoverability	
518	<a href="https://docs.aws.amazon.com/autoscaling/latest/userguide/">https://docs.aws.amazon.com/autoscaling/latest/userguide/</a>	Use EC2 auto scaling for creating a new EC2 if the first goes down. Can work with ELB	
518	<a href="https://aws.amazon.com/rds/features/">https://aws.amazon.com/rds/features/</a>	See Scalability: We can use a Read Replica to balance requests and have a backup if the RDS goes down	
514	<a href="https://www.cloudbooklet.com/how-to-setup-rds-and-connect-with-ec2-in-aws/">https://www.cloudbooklet.com/how-to-setup-rds-and-connect-with-ec2-in-aws/</a>	This explains how to set up a security group so the Database can connect with the EC2	
535	<a href="https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/Welcome.html">https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/Welcome.html</a>	Guide on cloudformation. We should use this to create our environments when testing our app deployment	
538	<a href="https://www.smashingmagazine.com/2020/06/rest-api-react-fetch-axios/">https://www.smashingmagazine.com/2020/06/rest-api-react-fetch-axios/</a>	with react we will make a client side app. We need some sort of API to connect to the backend with a REST API or GraphQL is recommended	
537	<a href="https://serverfault.com/questions/536576/nginx-how-do-i-forward-an-http-request-to-another-port">https://serverfault.com/questions/536576/nginx-how-do-i-forward-an-http-request-to-another-port</a>	This talks about proxy pass	
516	<a href="https://blog.logrocket.com/how-to-run-a-node-js-server-with-nginx/">https://blog.logrocket.com/how-to-run-a-node-js-server-with-nginx/</a>	Talks about starting Nginx services	
536	<a href="https://developer.wordpress.org/rest-api/extending-the-rest-api/routes-and-endpoints/">https://developer.wordpress.org/rest-api/extending-the-rest-api/routes-and-endpoints/</a>	Connecting the Rest API to javascript functions	
534	<a href="https://ej2.syncfusion.com/react/documentation/sidebar/how-to/fix-side-bar/">https://ej2.syncfusion.com/react/documentation/sidebar/how-to/fix-side-bar/</a>	Example of a persistent sidebar in react	
530	<a href="https://www.codeproject.com/Articles/615139/An-Absolute-Beginners-Tutorial-on-Dependency-Inver">https://www.codeproject.com/Articles/615139/An-Absolute-Beginners-Tutorial-on-Dependency-Inver</a>	Examples of many ways to do dependency injections	
524	<a href="https://vladmihalcea.com/database-table-relationships/">https://vladmihalcea.com/database-table-relationships/</a>	Shows database table relationships	
507	<a href="https://www.etsy.com/developers/documentation/getting_started/api_basics">https://www.etsy.com/developers/documentation/getting_started/api_basics</a>	Wide variety of products can access many stores	
507	<a href="https://developer.bestbuy.com/apis">https://developer.bestbuy.com/apis</a>	Less variety but more categories and easier selection of products	
511	<a href="https://w3-lab.com/choose-web-application-over-desktop/">https://w3-lab.com/choose-web-application-over-desktop/</a>	We should make web app. It will help us reach more users.	
512	<a href="https://docs.microsoft.com/en-us/azure/devops/pipelines/get-started/what-is-azure-pipelines?view=azure-devops">https://docs.microsoft.com/en-us/azure/devops/pipelines/get-started/what-is-azure-pipelines?view=azure-devops</a>	Azure pipeline will let us build and test code automatically	
510	<a href="https://docs.microsoft.com/en-us/azure/devops/pipelines/test/parallel-testing-vstest?view=azure-devops">https://docs.microsoft.com/en-us/azure/devops/pipelines/test/parallel-testing-vstest?view=azure-devops</a>	Azure pipelines will do auto testing for us	
505	<a href="https://github.com/zhowez/react-complete-guide">https://github.com/zhowez/react-complete-guide</a>	I have been working through a react course. This is my github with the progress	
521	<a href="https://www.w3schools.com/sql/">https://www.w3schools.com/sql/</a>	Looked through this tutorial on SQL	
546	<a href="https://www.serverless.com/blog/graphql-api-mysql-postgres-aurora">https://www.serverless.com/blog/graphql-api-mysql-postgres-aurora</a>	GraphQL could help us create a faster and simpler version of a rest API. it can send multiple queries in one request to our database instead sending multiple requests.	
546	<a href="https://www.howtographql.com/basics/1-graphql-is-the-better-rest/">https://www.howtographql.com/basics/1-graphql-is-the-better-rest/</a>	More on GraphQL, it is a query language but interacts with MySQL	
517	<a href="https://blog.api.rakuten.net/graphql-vs-rest/">https://blog.api.rakuten.net/graphql-vs-rest/</a>	Rest API's are a more tried and true way to request data from a database but they can lead to over and under fetching	
544	<a href="https://www.npmjs.com/package/@boldreports/react-reporting-components">https://www.npmjs.com/package/@boldreports/react-reporting-components</a>	This package allows customized reports in the react app	
543	<a href="https://www.npmjs.com/package/@boldreports/react-reporting-components">https://www.npmjs.com/package/@boldreports/react-reporting-components</a>	This package allows customized reports in the react app	
542	<a href="https://www.npmjs.com/package/@boldreports/react-reporting-components">https://www.npmjs.com/package/@boldreports/react-reporting-components</a>	This package allows customized reports in the react app	
544	<a href="https://www.npmjs.com/search?q=react%20report%20builder">https://www.npmjs.com/search?q=react%20report%20builder</a>	other good options	
541	<a href="https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/user-data.html">https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/user-data.html</a>	This talks about the user data scripts we need to have the EC2 ready upon deployment	