

Product	Song Wars - Team 17		
Date	9/19/20		
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Defect #	Description	Severity	How corrected
<b>DESIGN INSPECTION</b>			
1	Our original design exposed the client secret	1	Store the client secret on our backend API
2	Client had no way of refreshing access token when expired without having to reload the page	2	Adding a dedicated API call to refresh tokens
3	Original cookie design could not guarantee uniqueness of identity	1	Changing the design and information stored inside the cookie
<b>CODE INSPECTION</b>			
4	<pre>switch (action.type) {   case TOGGLE_SIDEBAR:     state.sidebarIsVisible =     !state.sidebarIsVisible   } }</pre>	2	<pre>switch (action.type) {   case TOGGLE_SIDEBAR:     return { ...state,     sidebarIsVisible:     !state.sidebarIsVisible } }</pre>
5	<pre>export const toggleSidebar = () =&gt; {   type: TOGGLE_SIDEBAR } }</pre>	1	<pre>export const toggleSidebar = () =&gt; ({ type: TOGGLE_SIDEBAR }) }</pre>
6	<pre>fetch(` https://api.spotify.com/v1/s earch?\${qs}` , myInit) .then(data =&gt; data.json()) .then((json) =&gt; {   this.setState({     searchResults:     json.tracks.items   }); }) })</pre>	3	<pre>fetch(` https://api.spotify.c om/v1/search?\${qs}` , myInit) .then(data =&gt; data.json()) .then((json) =&gt; {   if (json.tracks.items) {     this.setState({       searchResults:       json.tracks.items     });   } })</pre>

			<code>.catch(err =&gt; console.error(err))</code>
7	<pre>static public String string(Map&lt;String, Object&gt; json, String fieldname) {     String string;     if     (!json.containsKey(fieldname)        !(json.get(fieldname) instanceof String)        !((string = (String) json.get(fieldname)) != null)) {         throw new RuntimeException("[BadRequest] Could not access \'' + fieldname + '\'' string of AWS transformed JSON.");     } else         return string; }</pre>	1	<pre>public static void error(Map&lt;String, Object&gt; json) {     String error;     if     (!json.containsKey("error")        !(json.get("error") instanceof String)        !((error = (String) json.get("error")) != null)) {         return;     }     else         throw new RuntimeException("[Unauth orized] Error \'' + error + '\'' occurred during service authentication and user cannot be accepted."); }</pre>

#### UNIT TESTING INSPECTION

Test #	Description	Severity	Defects Found
1	Tested search results for a boundary case ie: 0 results	1	When search parameter returned zero results, it threw an undefined error that crashed the application when it tried to search with nothing.
2	Tested search term for default case ie: blank entry	1	When the search term was removed, the entire application would crash because the API would return an undefined value
3	Tested login and authentication functionality with Spotify's API	1	N/A (No defects found)
4	Tested API Gateway's ability to return error response codes	2	When an Internal Server Error was supposed to be reported, a response code 400 was returned.

5	Tested song recommendation API call	1	N/A
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