Bug Report

EcoQuorum(Xpan)

Failed to retrieve 'client_id' and pass it to the Unity project

- September 23, 2024 -

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1. Cause

: Originally, the 'EcoQuorum' project used the 'NamesAndRoles' method from the LTIjs package to retrieve the student's unique ID.

However, the getMembers() function in 'NamesAndRoles' fetches information for all course participants, making it unnecessarily heavy for a scenario where only a single 'student_id' is needed.

As a result, the project failed to retrieve the student_id and couldn't launch the Unity build correctly.

2. Action

: We **implemented a simpler method to retrieve the 'student_id'**, eliminating the need for interaction with the server (dlx-webhost) or Moodle.

Our DevOps team had already set the 'ltik' cookie on the website, which contains the 'student id', and 'EcoQuorum' was already using this cookie for authentication.

We decrypted the 'ltik' cookie (JWT to JSON) and extracted the 'user' value, which corresponds to the 'student_id'.

This 'student id' is then passed to the Unity project, allowing it to function as expected.

```
Applied Source Codes
function parseJwt(token) {
  const base64Url = token.split('.')[1];
  const base64 = base64Url.replace(/-/g, '+').replace(/_/g, '/');
  try {
     const jsonPayload = decodeURIComponent(atob(base64).split(").map(function(c) {
       return '%' + ('00' + c.charCodeAt(0).toString(16)).slice(-2);
     }).join("));
     return JSON.parse(jsonPayload);
  } catch (error) {
     console.error("Failed to parse JWT:", error);
    return { };
async function RetrieveUserID(UnityInstance) {
  let ltik = "";
  // get 'ltik' cookie
  ltik = this.getCookie("ltik");
  // Decode ltik JWT to JSON object
  const decodedToken = parseJwt(ltik);
  // Extract 'user' field, which contains the user_id
  const student id = decodedToken.user;
  // Pass student id to Unitiv Project
  UnityInstance.SendMessage("AuthManager", "SetUserId", student_id);
```

3. Outcome

: As expected, **all functions worked normally** and it was confirmed that the student ID was actually transmitted.



[Tutorial Page]



[Playing a Tutorial]

```
▼ {externalld: "22", signInOnly: false}
```

externalld: "22" signInOnly: false

[Retrieved 'student_id']