BOLYQUIZ

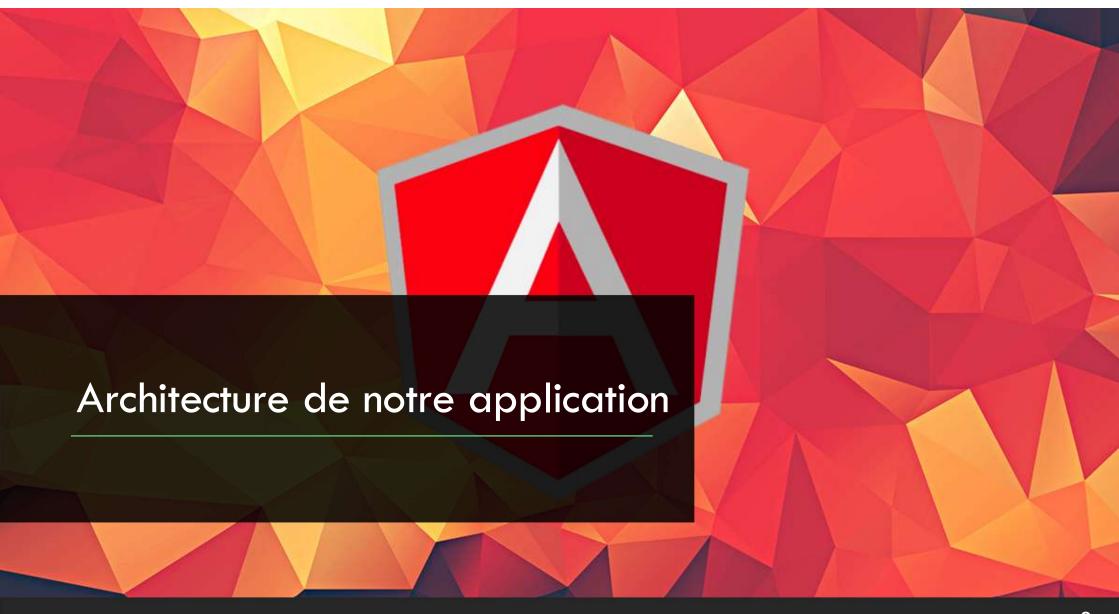
Entretien Technique

DEFENDINI LARA
RAFFIN LOUIS
SAVORNIN GUILLAUME
VAN DER TUIJN ANTON

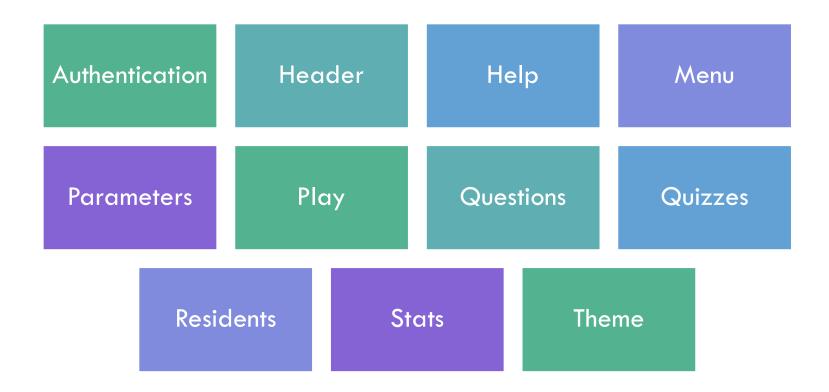
SOMMAIRE

- Architecture de notre application
- Architecture de notre API
- Difficultés rencontrées
- Problèmes techniques actuels
- Chapeau magique 🐈





Les composants principaux



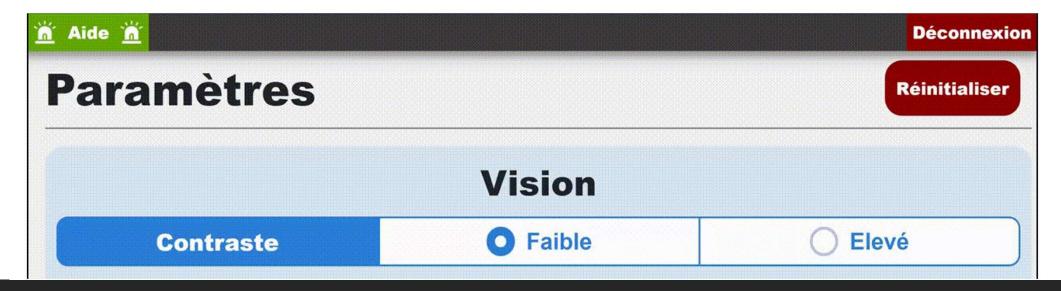
Les services

Auth Games Help Quiz

Result Settings Statistics Themes

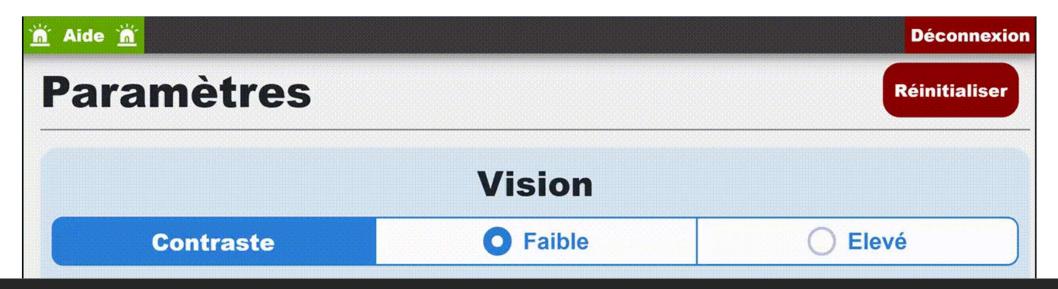
Service Toaster

this.toasterService.activateToaster(isErrorMessage: false, message: 'Contraste enregistré!', ms: 1000);



Service Toaster

this.toasterService.activateToaster(isErrorMessage: false, message: 'Contraste enregistré!', ms: 1000);



Les Services Auth-Guard



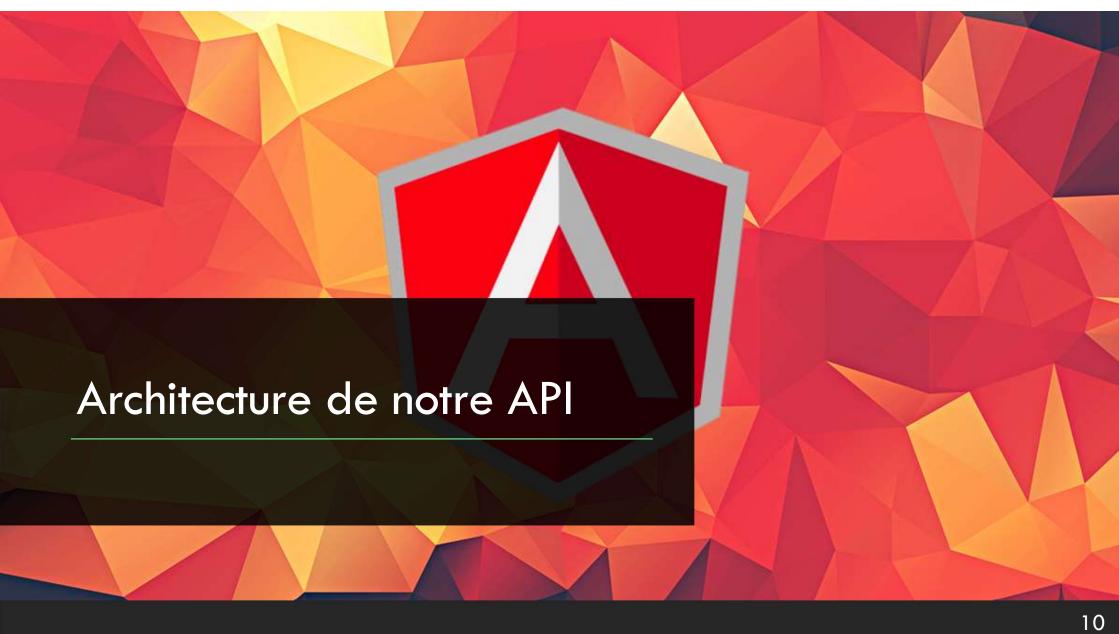
http://

Les Services Auth-Guard

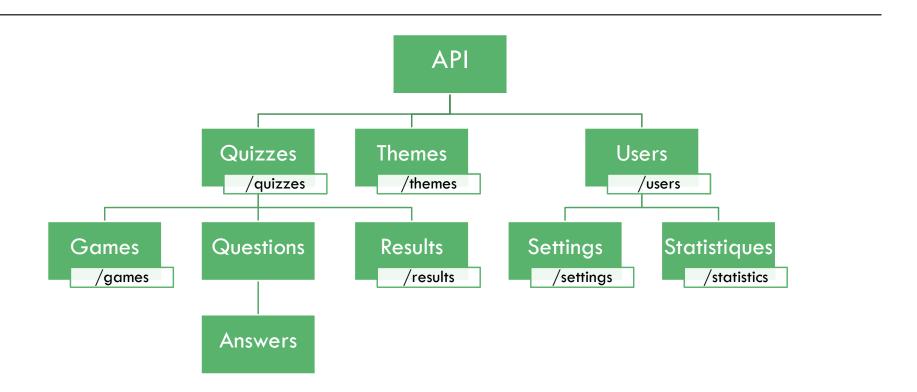
Routing module:

```
{path: 'welcome', canActivate: [NotAuthGuardService], component: WelcomeComponent},
{path: 'themes', canActivate: [AuthGuardService], component: ThemeComponent},
{path: 'residents', canActivate: [AuthGuardAdminService], component: ResidentsComponent},
```





Structure de notre API



Les ressources

Quizzes		
/	GET POST	
/:quizld/questions	GET	
/:quizld	GET PUT DELETE	
/quizData/:quizld	GET	

Games		
/	PUT	
/quizCompleted	PUT	
/:userId	GET DELETE	
/:userld/:quizld	GET DELETE	

Results		
/:resultId	GET	

Users		
/	POST	
/residents	GET	
/login	GET POST	
/logout	GET	
/:userld	DELETE	

Settings		
/:residentld	GET PUT	
/resetSettings/:residentId	PUT	
/copySettings/:residentId	PUT	

Statistiques		
/:residentld	GET	

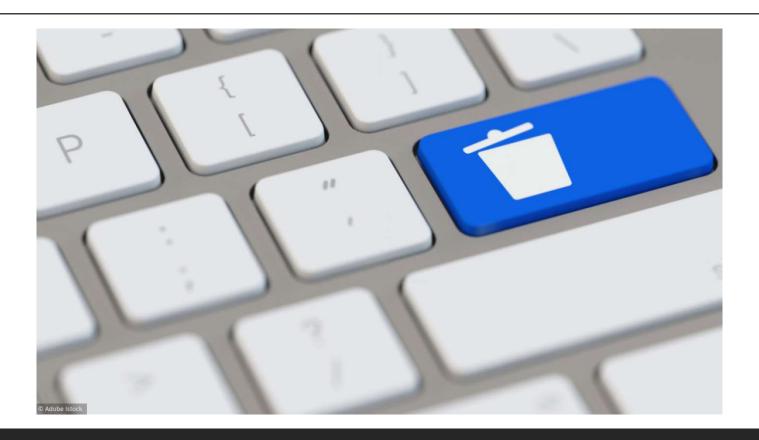
Themes		
/	POST	
/:themeId	GET PUT	

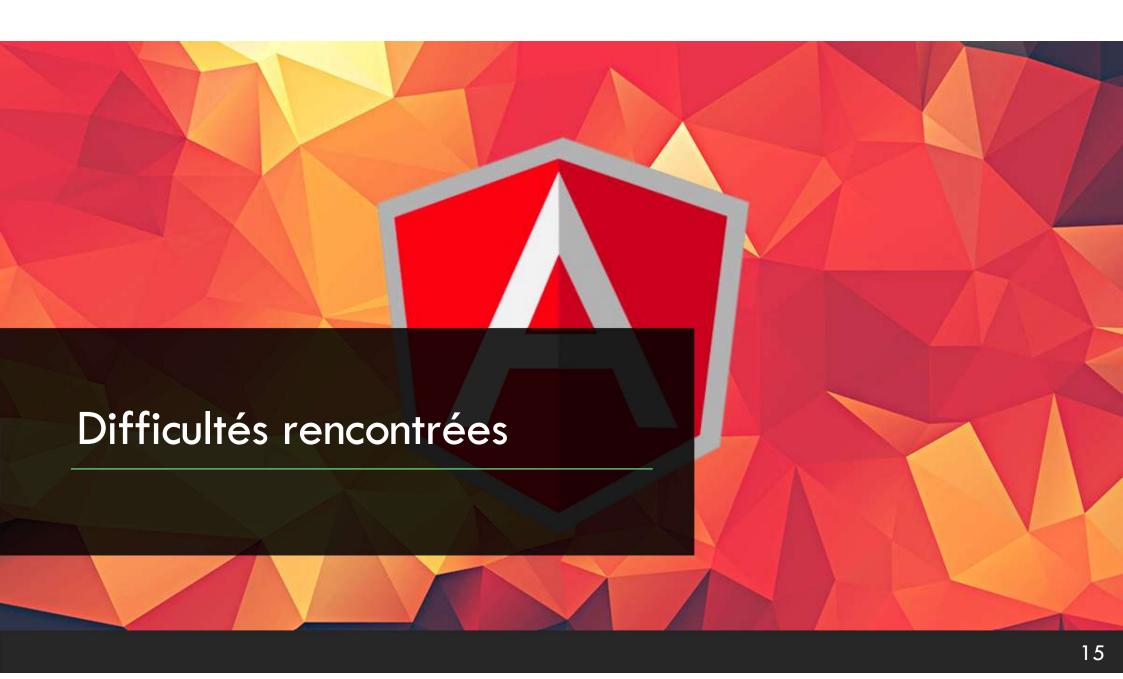
Exemple de modèle de données

Statistiques		
id	number	
currentWeek	number	
successPercentage	number	
totalQuizMade	number	
weekQuizMade	number	
perfectQuiz	number	
quizzesResultlds	[number]	

Results		
id	number	
date	number	
playTime	number	
quizld	number	
userld	number	
maxScore	number	
userScore	[number]	
quizSuccessPercentage		
Answers	[questionId answerId correctAnswerId (optioneI) questionScore]	

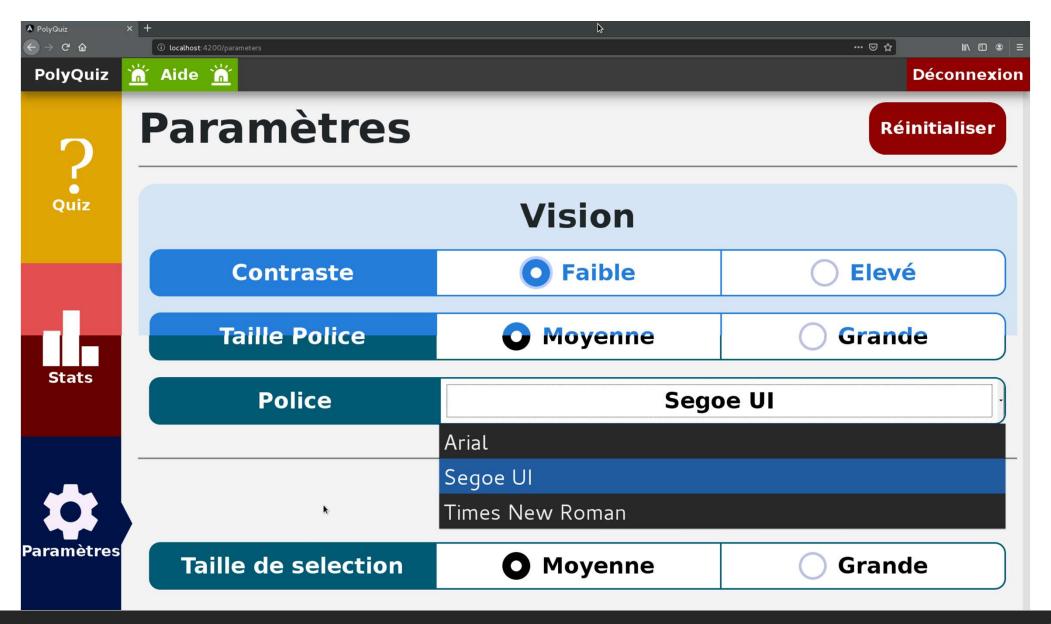
La suppression d'un Quiz





```
Louis
```

```
html {
     --customFont: "Segoe UI";
     --customWhite: white;
     --customGray: #3d3d3d;
     --customDarkGray: #2a2a2a;
     --customRed: #de5252:
                                   | $myvar
--my
     --customDarkRed: #8d0000;
     --customGreen: #65a800;
```



```
contrastEvent($event) {
 this.userSettings.contraste = $event;
 this.settingsService.updateSettings(this.
                                                                       ribe( next: (response : HttpResponse < Settings > ) => {
                                        "handicapVisuel": false,
   if (response.status === 200) {
     this.toasterService.activateToaster(
                                                                       enregistré !', ms: 1000);
                                        "handicapMoteur": true,
                                         "contraste": 1,
                                        "fontSize": 1.
     this.toasterService.activateToaster(
                                                                       est survenue, réessayer plus tard..., ms: 2000);
                                        "font": "Segoe UI",
 });
                                         "tailleSelection": 2,
                                        "id": 1587855686838
updateSettings(settings: Settings,
  const url = this.settingsUrl + 1
  return this.http.put<Settings>(url, settings, Options: {...this.httpOptions, observe: 'response'});
  const fonName = this.settingsService.settings.font;
   document.getElementsByTagName( qualifiedName: 'html')[0].style.setProperty( propertyName: '--customFont', fonName);
  if (this.settingsService.settings.contraste !== undefined && this.settingsService.settings.contraste === 2) {
     document.getElementsByTagName( qualifiedName: 'html')[0].style.setProperty( propertyName: '--customWhite', value: 'white');
     document.getElementsByTagName( qualifiedName: 'html')[0].style.setProperty( propertyName: '--customGray', value: '#363636');
     document.getElementsByTagName( qualifiedName: 'html')[0].style.setProperty( propertyName: '--customDarkGray', value: 'black');
     document.getElementsByTagName( qualifiedName: 'html')[0].style.setProperty( propertyName: '--customRed', value: '#650000');
```

Louis – La police (cas particulier)

L'unité de mesure REM

```
font-size: 0.6rem;
```

Sécuriser les mots de passe avec le module Bcrypt :

bcrypt.hash(req.body.password, salt);

MonMotDePasse



\$2b\$10\$z\$7UMOZdwNviNi0su/brC.fG8RXJmEK2DXhtKloer2xDhwgZl6C2K

salt

Mot de passe hashé

Sauvegarde de la session d'un utilisateur :

Session	Token
Express Session + Session File Storage	JWT (JSON Web Token)

Envoi d'un session Middleware :

```
router.use(session({
    store: new FileStore({}),
    name: SESSION_NAME,
    resave: false,
    saveUninitialized: true,
    secret: SESSION_SECRET,

    cookie: {
        maxAge: SESSION_LIFETIME,
        secure: false,
        sameSite: true,
    },
}));
```

Problème avec le Cross-Origin Ressource Sharing (CORS)

Access to XMLHttpRequest at 'http://localhost:9428/api/users/lo welcome:1 gin' from origin 'http://localhost:4200' has been blocked by CORS policy: Response to preflight request doesn't pass access control check: The value of the 'Access-Control-Allow-Origin' header in the response must not be the wildcard '*' when the request's credentials mode is 'include'. The credentials mode of requests initiated by the XMLHttpRequest is controlled by the withCredentials attribute.

Solution des problèmes CORS :

```
app.use(cors({credentials: true, origin: 'http://localhost:4200'}));

app.use(function (req, res, next) {
    // Website you wish to allow to connect
    res.setHeader('Access-Control-Allow-Origin', 'http://localhost:4200');
    res.setHeader('Access-Control-Allow-Methods', 'GET, POST, OPTIONS, PUT, PATCH, DELETE');
    res.setHeader('Access-Control-Allow-Headers', 'X-Requested-With,content-type');
    res.setHeader('Access-Control-Allow-Credentials', true);

// Pass to next layer of middleware
    next();
});
```

Anton – Mauvaise piste

```
constructor(private route: ActivatedRoute, private resultService: ResultService) {
  this.sbAnswerSelected = this.resultService.answerSelected$.subscribe(onNext: (answer) => this.answerSelected = answer);
  this.sbQuestion = this.resultService.questionSelected$.subscribe( onNext: (question) => this.question = question);
  this.sbAnswerCorrect = this.resultService.correctAnswerSelected$.subscribe( onNext: (answer) => this.answerCorrect = answer);
ngOnInit() {
  this.resultService.setSelectedQuestion(this.quizId, String(this.questionId));
  this.resultService.setSelectedAnswer(this.quizId, String(this.questionId), String(this.answerId));
  if (this.correctAnswerId) {
    this.resultService.setSelectedCorrectAnswer(this.quizId, String(this.questionId), String(this.correctAnswerId));
                      Numéro
                                                           Question et Réponse
                                                                                                        Score
                                                              question4
                                                                                                         50
                                              bbb
                                                                                 valeur2
                                                              question4
                        2
                                                                                                         100
                                              bbb
                                                                                 valeur2
                                                              question4
                        3
                                                                                                         100
                                              bbb
                                                                                 valeur2
                                                              question4
                        4
                                                                                                         50
                                              bbb
                                                                                 valeur2
```

Anton – Meilleur implémentation

Solution:

Construction des objets par le back-end et non pas le front Le component parent contient l'observer qui fait appel au back

Numéro	Questions et Réponses	Score
1	Avec quoi joue-t-on au basketball ? Bonne réponse : Un ballon Réponse choisi : Une raquette	50
2	Lequel de ces joueurs est Français ? Bonne réponse choisi : Tony Parker	100
3	Le basketball se joue avec combien de joueurs par équipe ? Bonne réponse : 5 Réponse choisi : 7	50

Lara – Suppression des quiz

```
deleteQuiz() {
  for (const q of this.quizToCreate.questions) {
    this.quizService.deleteQuestion(this.quizToCreate, q);
  }
  this.quizService.deleteQuiz(this.quizToCreate);
  this.quizService.deleteQuiz(this.quizToCreate);
  this.goToThemeMenu();
}
```

Problème:

Une totale suppression posait problème lors de l'affichage des statistiques

Solution:

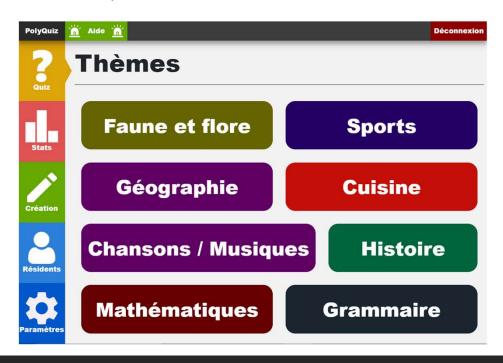
Un attribut "deleted" sur les quiz, leurs questions, et les réponses aux questions

```
id: string;
  name: string;
  themeId: string;
  theme?: Theme;
  questions?: Question[];
  nbQuestions?: number;
  difficulty: string;
  deleted?: boolean;
}
```

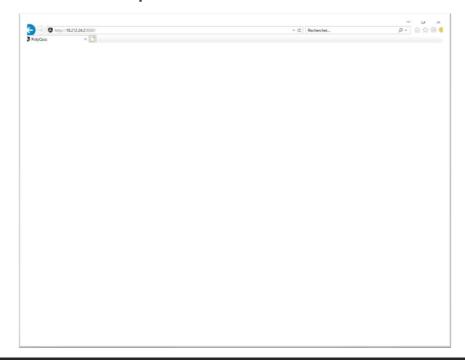


Problèmes de compatibilités entre navigateurs

Chrome / Firefox

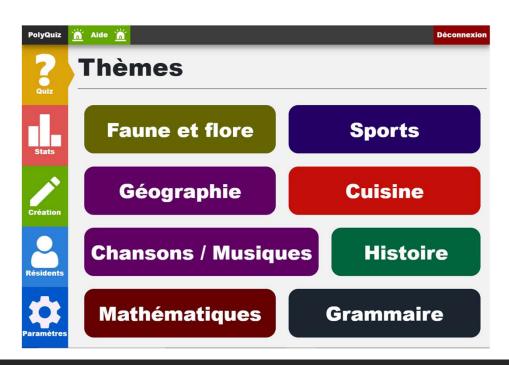


Internet explorer

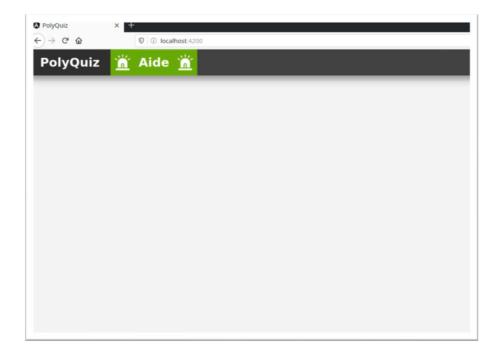


Problèmes de compatibilités entre OS

Chrome sous Windows



Firefox sous Linux



Améliorations possibles

Utiliser des librairies permettant de maximiser la compatibilité entre navigateurs

Changer le modèle d'authentification de session à token

